



SENATE STANDING COMMITTEE ON CURRICULUM

Regular Meeting
Wednesday, April 8, 2026
2:00 p.m. – 4:00 p.m.
MS Teams

AGENDA

1. Call to Order and Territorial Acknowledgement Catherine Schwichtenberg 2:00
2. Approval of Agenda
3. Approval of Minutes, March 11, 2026
4. Chair's Report
5. New Business
 - 5.1. Course Submissions Catherine Schwichtenberg 2:05
 THAT the Senate Standing Committee on Curriculum recommend that Senate approve the attached list of new and revised courses.
 - 5.2. Program Revision: Minor in Music..... Gordon Cobb, Afsana Tabibi 2:15
 That the Standing Committee on Curriculum recommend that the Senate approve the revisions to the Minor in Music program and associated courses, effective September 1, 2026.
 - 5.3. Program Revision: Minor in Economics Vera Lantinova 2:25
 THAT the Senate Standing Committee on Curriculum recommend that Senate approved the revisions to the Minor in Economics program, effective September 1, 2026.
 - 5.4. Program Revision: Diploma in Brewing and Brewery Operations Alek Egi 2:35
 THAT the Senate Standing Committee on Curriculum recommend that Senate approve the admissions revisions to the Diploma in Brewing and Brewery Operations program, effective September 1, 2027.
 - 5.5. Program Revision: Diploma in Engineering Physics.....Michael Poon 2:45
 THAT the Senate Standing Committee on Curriculum recommends that Senate approve the revisions to the Diploma in Engineering Physics program, effective September 1, 2026.
 - 5.6. Program Revision: Bachelor of Science, Major in Biology; Bachelor of Science (Honours), Major in Biology Layne Myhre 2:55
 THAT the Senate Standing Committee on Curriculum recommends that the Senate approve the revisions to the following programs, effective September 1, 2026,

- Bachelor of Science, Major in Biology
- Bachelor of Science (Honours), Major in Biology

5.7. Program Revision: Bachelor of Science, Major in Health Science; Bachelor of Science (Honours), Major in Health Science Layne Myhre 3:05

THAT the Senate Standing Committee on Curriculum recommends that the Senate approve the revisions to the following programs, effective September 1, 2026,

- Bachelor of Science, Major in Health Science
- Bachelor of Science (Honours), Major in Health Science

5.8. Program Revision: Associate of Science in Mathematics Allyson Rozell 3:10

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Associate of Science in Mathematics, effective September 1, 2026.

5.9. Program Revision: Minor in Mathematics Allyson Rozell 3:15

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Minor in Mathematics, effective September 1, 2026.

5.10. Program Revision: Bachelor of Science, Major in Mathematics Allyson Rozell 3:20

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Bachelor of Science, Major in Applications of Mathematics program, effective September 1, 2026.

5.11. Program Revision: Bachelor of Science (Honours), Major in Mathematics Allyson Rozell 3:25

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Bachelor of Science (Honours), Major in Applications of Mathematics program, effective September 1, 2026.

5.12. Graduate Studies General regulations 4: Academic Progress Josephine Chan 3:35

THAT the Senate Standing Committee on Curriculum recommends that Senate approves Graduate Studies General Regulation 4: Academic Progress, effective September 1, 2026.

6. Items for Discussion

7. Adjournment

SENATE STANDING COMMITTEE ON CURRICULUM

Minutes of Regular Meeting

Wednesday, March 11, 2026

2:00 p.m. – 4:00 p.m.

MS Teams Online

PRESENT:

Voting Members

Brett Favaro
Celia Brinkerhoff
Krista Gerlich-Fitzgerald
Lindsay Norris
Naomi Ben-Yehuda
Parthi Krishnan
Richard Popoff
Shelley Boyd

Ex-Officio

Diane Purvey, Acting President
Kwuntiltunaat (Kim Baird), Chancellor

Non-Voting Members

Catherine Schwichtenberg
Leeann Waddington
Meredith Laird
Nadia Henwood
Nishan Perera

Administrative Resources

Michelle Molnar

Guests

Cate Tohill
Fiona Whittington-Walsh
John Rose

NOT PRESENT:

Voting Members

Ron Murray

Non-Voting Members

1. Call to Order

The Chair called the meeting to order at 2:00 p.m.

2. Approval of Agenda

Richard Popoff moved the agenda be confirmed as circulated.

The motion carried.

3. Approval of Minutes, February 4, 2026

Celia Brinkerhoff moved the minutes be accepted as amended.

The motion carried.

4. Chair's Report

Catherine Schwichtenberg, Chair, provided an update on the work of the subcommittees. She noted that the Subcommittee on Quantitative Courses has been actively reviewing courses to ensure they continue to meet the quantitative criteria, and that the Subcommittee on Pathway

Courses has been engaged in reviewing DFW rates for undergraduate pathway courses. Item 6.2 is a report arising from these discussions.

5. New Business

5.1. Course Submissions

The committee requested CRWR 1100, 1200, and 1240 be removed from the list and discussed separately.

Parthi Krishnan moved that the Senate Standing Committee on Curriculum recommend that Senate approve the March 2026 list of new, revised and discontinued course outlines, excluding CRWR 1100, 1200, and 1240.

The motion carried.

ACTION: The Office of the Registrar will connect with the CRWR department to clarify the intention of the changes to the course prerequisites, which limit access as they do not include testing and other equivalencies to the Undergraduate English Proficiency.

5.2. Program Change: Certificate in Education Assistant

Cate Tohill, presented the minor change to the program as well as the inclusion of the curriculum map.

Parthi Krishnan moved that the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Certificate in Education Assistant Program, effective September 1, 2026.

The motion carried.

5.3. Program Change: Bachelor of Arts, Major in Applied Geography

John Rose, Geography instructor, detailed significant changes to the BA major, including restructuring second-year skills courses, integrating physical geography content, reducing prescriptiveness in upper-level requirements, and introducing new courses to address student demand and flexibility.

Parthi Krishnan moved that the Senate Standing Committee on Curriculum recommend Senate approve the revisions to the Bachelor of Arts, Major in Applied Geography program and associated new and revised courses, effective September 1, 2026.

The motion carried.

5.4. Program Change: Associate of Arts in Geography

John Rose, explained that changes to the associate degree and minor were made to harmonize first- and second-year requirements with the major, increase skills training, and remove outdated or rarely offered courses.

Parthi Krishnan moved that the Senate Standing Committee on Curriculum recommend Senate approve the revisions to the Associate of Arts, Major in Applied Geography program, effective September 1, 2026.

The motion carried.

5.5. Program Change: Minor in Geography

Shelley Boyd moved that the Senate Standing Committee on Curriculum recommend Senate approve the revisions to the Minor in Geography program, effective September 1, 2026.

The motion carried.

5.6. English Proficiency Requirement – Amendment

Fiona Whittington-Walsh, Lead Advisor on Disability, Accessibility, and Inclusion and faculty, Department of Sociology and Nadia Henwood, Associate Vice-President, Enrollment Services and Registrar presented the proposed revisions to the university's English proficiency requirement to support the Including All Citizens Pathway (IACP), noting this is the final step in formalizing the admissions category for select programs.

Shelley Boyd moved that the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the University’s English Proficiency Requirement, effective September 1, 2026.

The motion carried.

6. Items for Discussion

6.1. DQAB Determination Update

Meredith Laird, Manager, Curriculum Support, updated the committee on the outcome that DQAB determined that the changes to the Bachelor of Psychiatric Nursing program does not constitute a new degree.

6.2. UG Course Removals from Pathways

Catherine Schwichtenberg, led a discussion on the review of undergraduate courses on the pathway, noting that the Subcommittee on Pathway Courses (SPWC) identified undergraduate courses with persistently high DFW rates for pathway students.

The committee discussed appropriate metrics for evaluating pathway courses and supported focusing analysis on F and W grades, with consideration of grade distributions to provide additional context. Emphasis was placed on aligning pathway courses with student success rather than enrollment.

The committee noted that pathway challenges may require additional student supports and broader consideration of learning outcomes and support structures, beyond changes to course lists alone.

The process for removal and potential reinstatement of pathway courses was clarified, noting that faculty councils have authority for removal and that a review and reapplication process is in place.

6.3. 2026 – 2027 Senate and Committee Meeting Calendar

The chair presented the draft Senate and committee meeting calendar for feedback.

7. Adjournment

The meeting adjourned at 3:32 p.m.



SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.1

Meeting Date: April 8, 2026

Presenter(s): Catherine Schwichtenberg

AGENDA TITLE: COURSE OUTLINES

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the attached list of new and revised courses.

COMMITTEE REPORT

Attachments

1. April 2026 Course Submissions

Submitted by

Michelle Molnar, Administrative Coordinator, University Senate

Date submitted

February 27, 2026

Senate Standing Committee on Curriculum

April 8, 2026

Faculty	Department	Course Subject Code	Course Number	Course Title (insert hyperlink in this column)	Implementation Date (Enter as text)	Category	Attribute Requested? (QUAN, PATH, WI)	Date attribute was reviewed by subcommittee (to be filled in)	Proponents/guests to be invited to speak at SSCC (Senate office will send guest invite)
Arts	Creative Writing	CRWR	1100	Introduction to Creative Writing	9/1/2026	Revised			Nicola Harwood
Arts	Creative Writing	CRWR	1200	Instruction to Craft and Process in Creative W	9/1/2026	Revised			Nicola Harwood
Arts	Creative Writing	CRWR	1240	New Forms and media: Networked Narratives	9/1/2026	Revised			Nicola Harwood
Arts	Music	MUSI	1151	Aural Musicianship I	9/1/2026	Revised			Gordon Cobb
Arts	Music	MUSI	1154	Keyboard Skills I	9/1/2026	Revised			Gordon Cobb
Science	Biology	BIOL	4235	Marine Biology	9/1/2026	Revised			Layne Myhre
Science	Math	MATH	3130	Introduction to the Mathematics Classroom	9/1/2026	Revised			Allyson Rozell
Science	Math	MATH	3450	History of Mathematics	9/1/2026	Revised	QUAN	25-Mar-26	Allyson Rozell
Science	Math	MATH	4130	Theory of Mathematics Education	9/1/2026	Revised			Allyson Rozell
Science	Horticulture	HORT	1232	Sports Turf Management Practices	9/1/2026	Revised	PATH		Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2302	Horticulture Work Experience	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2306	Work Experience Report	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2330	Turfgrass and Environmental Stress	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2332	Environmental Turf Management	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2334	Irrigation, Drainage and Lighting	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2335	Sports Turf Management Practices	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2412	Landscape Estimating and Contract Administr	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2427	Sustainable Landscape Design II	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2436	Golf Course Management	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2437	Golf Course Irrigation Systems, Designs, And C	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2473	Greenhouse Climate Control	9/1/2026	Revised			Ellen Pond, Russ Lyons
Science	Horticulture	HORT	2493	Crop Production Development	9/1/2026	Revised			Ellen Pond, Russ Lyons
Business	Business	BUSI/ENTR	2110	Values, Rationality, and Power: Developing W	9/1/2026	Revised			Christina Page
Business	Business	BUSI	2465	Negotiation Skills	9/1/2026	Revised			Laila Ali
Business	Computer Business Systems	CBSY	1120	Work Smarter with Artificial Intelligence	9/1/2026	New			Landon Kleis



SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.2

Meeting Date: April 8, 2026

Presenter(s): Gordon Cobb, Afsana Tabibi

AGENDA TITLE: **PROGRAM REVISION: MINOR IN MUSIC**

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

That the Standing Committee on Curriculum recommend that Senate approve the revisions to the Minor in Music program and associated courses, effective September 1, 2026.

COMMITTEE REPORT

Arts Standing Committee on Academic Planning and Priorities March 16, 2026

Arts Standing Committee on Curriculum March 19, 2026

Arts Faculty Council March 20, 2026

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan Indication date of approval
- Other issue Courses advertised as part of the Minor were not included in the original approved course requirements.

Context and Background

Many students take MUSI 1113 and MUSI 3512 out of interest and want to continue into the Minor, but these courses were not originally part of the list of courses that count towards the Minor course

requirements. The Music department proposes adding these courses to the pick list of lower- and upper-level courses, respectively. In addition, the discontinuance of the Bachelor of Music in Musical Arts means that certain courses include in the Minor needed to revise their pre-requisites.

Key Messages

1. Add MUSI 1113 and 3512 to the required course options
2. Course revisions to courses to update pre-requisites and attributes

Consultations

1. Meredith Laird and Virginia Vandenberg, Curricular Support Unit
2. Catherine Schwichtenberg, Vice-Chair Senate

Attachments

1. [MNR AR MUSI: Minor in Music](#)
2. [MUSI 1113: Introduction to the Music Industry](#)
3. [MUSI 3512: The Business of Music](#)
4. [MUSI 3602: Applied Desktop Recording](#)
5. [MUSI 3653: World Music](#)
6. [MUSI 4602: Music Video Production](#)

Submitted by

Gordon Cobb, Music Chair

Date submitted

March 12, 2025



MNR_AR_MUSI: MINOR IN MUSIC

In Workflow

1. Music Chair (gordon.cobb@kpu.ca)
2. AR Dean (alena.buis@kpu.ca; shelly.boyd@kpu.ca; arts.curriculum@kpu.ca)
3. Provost (meredith.laird@kpu.ca)
4. ORegCurrConsult (oregcurrconsult@kpu.ca)
5. AR Academic Planning and Priorities Committee (Ying.Ma2@kpu.ca)
6. AR Curriculum Committee (mariana.gatzeva@kpu.ca; arts.curriculum@kpu.ca)
7. AR Council (Greg.Millard@kpu.ca)
8. AR Dean (alena.buis@kpu.ca; shelly.boyd@kpu.ca; arts.curriculum@kpu.ca)
9. Senate Standing Committee on Curriculum (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
10. Senate (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
11. Calendar Editor (calendar.editor@kpu.ca)

Approval Path

1. 2026-03-06T18:09:59Z
Gordon Cobb (gordon.cobb): Approved for Music Chair
2. 2026-03-09T14:27:44Z
Shelley Boyd (Shelley.Boyd): Approved for AR Dean
3. 2026-03-12T16:25:53Z
Meredith Laird (meredith.laird): Approved for Provost
4. 2026-03-17T20:31:31Z
Krista Gerlich-Fitzgerald (krista.gerlichfitzgerald): Approved for ORegCurrConsult
5. 2026-03-17T21:56:34Z
Ying Ma (Ying.Ma2): Approved for AR Academic Planning and Priorities Committee
6. 2026-03-19T17:46:38Z
Mariana Gatzeva (Mariana.Gatzeva): Approved for AR Curriculum Committee
7. 2026-03-24T14:06:32Z
Greg Millard (Greg.Millard): Approved for AR Council
8. 2026-03-24T15:30:39Z
Shelley Boyd (Shelley.Boyd): Approved for AR Dean

History

1. Nov 28, 2023 by clmig-dboggess

New Program Proposal

Date Submitted: 2026-03-06T18:09:35Z

Viewing: MNR_AR_MUSI : Minor in Music

Last approved: Tue, 28 Nov 2023 21:38:32 GMT

Last edit: 2026-03-10T00:11:00Z

Changes proposed by: Virginia Vandenberg

Reviewer comments

Virginia Vandenberg (virginia.vandenberg) (Fri, 06 Mar 2026 18:48:37 GMT): Associated course revisions: MUSI 1113 and 3512

Virginia Vandenberg (virginia.vandenberg) (Tue, 17 Mar 2026 16:40:03 GMT): Associated course revisions: MUSI 3602, 3653, 4602

Krista Gerlich-Fitzgerald (krista.gerlichfitzgerald) (Tue, 17 Mar 2026 20:30:11 GMT): The grade of C for every course exceeds what is in AC14 (which is program GPA of 2.0). Please confirm that this is still intended.

Virginia Vandenberg (virginia.vandenberg) (Wed, 25 Mar 2026 20:41:56 GMT): Approved by Arts Standing Committee on Academic Planning and Priorities via e-vote 16-Mar-2026; Approved by Arts Standing Committee on Curriculum via e-vote 19-Mar-2026; Approved by Arts Faculty Council 20-Mar-2026

Determination of new degree?

No



Overview

Status

Revision

Program proposal contact(s)

Gordon Cobb

Calendar year edition

2026-2027

Overview of proposed changes

	Proposed Changes	Rationale
1	Add MUSI 1113 to the lower level course list and MUSI 3512 to the upper level course list	Marketing material promoting the minor include courses not originally included in the Senate-approved program. This change gives students more options for courses within the minor.

Requirements

Admission Requirements

Students pursuing a Minor in Music must be admitted to KPU for undergraduate studies.

Declaration Requirements

Students pursuing this minor must declare their intention prior to graduation. A minor may only be declared as part of a bachelor's degree.

Curricular Requirements

Students must achieve a minimum grade of C in all required courses. The Music Minor requires completion of twenty-four (24) credits as follows:

Code	Title	Credits
Lower Level		
Select 12 credits from the following:		12
MUSI 1111	Introduction to Popular Music	
<u>MUSI 1113</u>	<u>Introduction to the Music Industry Revised Course</u>	
MUSI 1114	Introduction to World Music	
MUSI 1130	Music Technology I	
MUSI 2020	Drum Jam Revised Course	
MUSI 2130	Music Technology II	
Upper Level		
Select 12 credits from the following:		12
MUSI 3500	Special Topics Revised Course	
<u>MUSI 3512</u>	<u>The Business of Music Revised Course</u>	
MUSI 3602	Applied Desktop Recording Revised Course	
MUSI 3653	World Music Revised Course	
MUSI 4602	Music Video Production Revised Course	
Total Credits		24

Credential Awarded

Upon successful completion of the minor as part of a bachelor's degree program, transcripts will indicate a **Minor in Music**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
<u>1</u>	<u>Analyze the individual components of music from perspective of global cultures</u>
<u>2</u>	<u>Play music from global cultures in order to develop an embodied understanding of cultural identity</u>



<u>3</u>	<u>Perform live music in order to connect with live audiences</u>
<u>4</u>	<u>Construct audio compositions and products using computers and digital audio workstations (DAWs)</u>
<u>5</u>	<u>Construct video products using video editing software and apps</u>
<u>6</u>	<u>Collaborate with students from other disciplines to develop successful professional working relationships</u>
<u>7</u>	<u>Develop appropriate business skills in the fields of marketing, promotions, and public relations as it relates to the music industry</u>
<u>8</u>	<u>Collaborate as part of a team to develop KPU events and music festivals</u>

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Abstract

Degree or non-degree program

Non-Degree

Academic level

Undergraduate

Faculty

Arts

Department

Music

Program name

Minor in Music

Program Code

MNR_AR_MUSI

Program description

The Minor in Music provides students with a grounding in contemporary practices, and caters to those interested in expressive cultural traditions from across the globe, including popular music and world music. It features an open and inclusive approach to the study of music that embraces broad perspectives on materials, context, and presentation, and uses contemporary digital technologies to develop an understanding of music creation and performance. This minor may be applied towards any KPU bachelor's degree.

Implementation date

September 2026



Proposed Program Overview

Program Structure & Delivery

Date for next review

[September 2031](#)

Will this program include a co-operative education option?

[No](#)

Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[MUSI Curriculum Map Template - Minor Music_March 9, 2026.xlsx](#)

Key: 85



SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.3

Meeting Date: *Wednesday, April 8, 2026*

Presenter(s): *Vera Lantinova*

AGENDA TITLE: **PROGRAM REVISION: MINOR IN ECONOMICS**

ACTION REQUESTED: *Motion*

RECOMMENDED RESOLUTION:

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the changes to the Minor in Economics program, effective September 1, 2026.

COMMITTEE REPORT

Approved by the Melville School of Business Curriculum Committee on March 9, 2026.

Approved by the Melville School of Business Faculty Council on March 23, 2026

Context and Background

This program change proposal modernizes the Minor in Economics by concentrating the program's upper-level coursework (12 credits at the 3000 level or above, instead of 15 credits). The revision streamlines the Minor to support interdisciplinary study, timely graduation, and student retention.

The proposal is to change the requirements as follows: "Select at least 12 credits from courses in ECON or FNSR at the 3000 level or higher."

As part of the revision, ECON 1110 is removed from the Minor course list to maintain appropriate prerequisites for students entering upper-level courses, and a program description is updated.

The revised structure supports student success in several ways:

Improved Time-to-Completion

A focused 12-credit minor reduces scheduling barriers and supports on-time graduation, particularly

for students in structured programs in the School of Business and the Faculty of Arts.

Enhanced Interdisciplinary Access

Students across various Majors can integrate advanced economic analysis into their primary program without overextending their credit load.

Clearer Value Proposition

With its well-structured upper-level coursework, the Minor signals advanced analytical training rather than introductory exposure.

Retention and Completion

Streamlined Minors can improve declaration rates and completion rates, strengthening overall program viability.

Key Messages

1. Revise the Minor in Economics to require 12 credits at the 3000 level or above.
2. Revising the specific requirement for 3 credits of ECON at the 4000 level allows students flexibility in choosing their upper-level options from the 3000 and 4000 level ECON and FNSR courses and provides students with multiple upper-level pathways to completion and ability to determine their own disciplinary focus.

Consultations

3. Alia Somji, Dean *pro tem*, Melville School of Business
4. Virginia Vandenberg, Program Development Specialist, Office of the Provost
5. Krista Gerlich-Fitzgerald, Associate Registrar, Records, Curriculum and Graduation
6. The MSB Curriculum Committee
7. The MSB Faculty Council

Resource Requirements

- No additional resources or faculty workload are required. The proposal does not introduce new courses and does not change existing course content. The revision is expected to improve student accessibility and completion by reducing structural barriers in the current Minor requirements.

Attachments

- [MNR_AR_ECON: Minor in Economics](#)

Submitted by

Vera Lantinova

Chair, Economics Department, Melville School of Business, KPU

Date submitted: March 25, 2026



MNR_AR_ECON: MINOR IN ECONOMICS

In Workflow

1. Economics Chair (vera.lantinova@kpu.ca)
2. SB Dean (Alia.Somji@kpu.ca)
3. Provost (meredith.laird@kpu.ca)
4. ORegCurrConsult (oregcurrconsult@kpu.ca)
5. Provost (meredith.laird@kpu.ca)
6. SB Curriculum Committee (Ralph.Ferens@kpu.ca)
7. SB Council (Benjamin.Kwan@kpu.ca)
8. SB Dean (Alia.Somji@kpu.ca)
9. Senate Standing Committee on Curriculum (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
10. Senate (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
11. Calendar Editor (calendar.editor@kpu.ca)

Approval Path

1. 2026-02-27T22:25:54Z
Vera Lantinova (Vera.Lantinova): Approved for Economics Chair
2. 2026-03-11T18:10:36Z
Alia Somji (Alia.Somji): Approved for SB Dean
3. 2026-03-11T18:13:42Z
Meredith Laird (meredith.laird): Approved for Provost
4. 2026-03-17T20:26:51Z
Krista Gerlich-Fitzgerald (krista.gerlichfitzgerald): Approved for ORegCurrConsult
5. 2026-03-17T20:29:30Z
Meredith Laird (meredith.laird): Approved for Provost
6. 2026-03-17T20:32:08Z
Ben Kwan (Benjamin.Kwan): Approved for SB Curriculum Committee
7. 2026-03-26T00:18:56Z
Ben Kwan (Benjamin.Kwan): Approved for SB Council

History

1. Nov 28, 2023 by clmig-dbogges
2. Jun 9, 2025 by Vera Lantinova (Vera.Lantinova)

Date Submitted: 2026-02-27T19:52:40Z

Viewing: MNR_AR_ECON : Minor in Economics

Last approved: Mon, 09 Jun 2025 17:39:26 GMT

Last edit: 2026-04-01T19:23:51Z

Changes proposed by: Vera Lantinova

Reviewer comments

Krista Gerlich-Fitzgerald (krista.gerlichfitzgerald) (Tue, 17 Mar 2026 20:23:11 GMT): Is it intentional that a 4000 level course is no longer required? It is not required under the framework, but, I do not see the rationale for that specific removal

Virginia Vandenberg (virginia.vandenberg) (Tue, 17 Mar 2026 22:16:08 GMT): Rationale updated on behalf of proponent to clarify the revision of the upper level credit requirements.

Determination of new degree?

No Yes

Overview

Program proposal contact(s)

Vera Lantinova



Calendar year edition

[2026-2027](#) ~~2025-2026~~

Overview of proposed changes

	Proposed Changes	Rationale
1	<p>Student Success Initiative: Modernizing the Minor in Economics</p> <p>Overview This proposal modernizes the Minor in Economics by concentrating the program upper-level coursework (12 credits at the 3000 level or above, instead of 15 credits). The revision streamlines the Minor to support interdisciplinary study, timely graduation, and student retention.</p> <p>Proposal to change the requirements as follows: "Select at least 12 credits from courses in ECON or FNSR at the 3000 or 4000 level."</p> <p>Revising the specific requirement for 3 credits of ECON at the 4000 level allows students flexibility in choosing their upper level options from the 3000 and 4000 level ECON and FNSR courses and provides students with multiple upper-level pathways to completion and ability to determine their own disciplinary focus.</p>	<p>Student Success Rationale</p> <p>The revised structure supports student success in several ways:</p> <p>Improved Time-to-Completion A focused 12-credit minor reduces scheduling barriers and supports on-time graduation, particularly for students in structured programs in the School of Business and the Faculty of Arts.</p> <p>Enhanced Interdisciplinary Access Students across various Majors can integrate advanced economic analysis into their primary program without overextending their credit load.</p> <p>Clearer Value Proposition With its well-structured upper-level coursework, the Minor signals advanced analytical training rather than introductory exposure.</p> <p>Retention and Completion Streamlined Minors can improve declaration rates and completion rates, strengthening overall program viability.</p>
2	Remove ECON 1110	Support completion rates

Requirements

Admission Requirements

Students pursuing a Minor in Economics must be admitted to KPU for undergraduate studies.

Declaration Requirements

Students pursuing this minor must declare their intention prior to graduation. A minor may only be declared as part of a bachelor's degree.

Curricular Requirements

Code	Title	Credits
Core Requirements		
ECON 1150	Principles of Microeconomics	3
ECON 1250	Principles of Macroeconomics	3
1000-2000 Level		
Select 6 credits from the following:		6
ECON 1110	Making Economic Sense of Life	
ECON 2210	Money and Banking	
ECON 2255	International Trade	
ECON 2260	Environmental Economics	
ECON 2280	Labour Economics	
ECON 2350	Intermediate Microeconomics	
3000-4000 Level		
Select at least 12 credits from courses in ECON or FNSR at the 3000 or 4000 level, and 3 credits from ECON courses at the 4000 level		15



Select 12 credits from courses in ECON or FNSR at the 3000 level or higher

12

Total Credits

24

Credential Awarded

Upon successful completion of the minor as part of a bachelor's degree program, transcripts will indicate a **Minor in Economics**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	Critically analyze and evaluate economic theories and critique their ability to explain observed economic outcomes.
2	Identify and critically evaluate sources of economic information and opinion, and debate policy issues in an informed way.
3	Identify, critically analyze and solve economic problems related to business, behaviour, or policy.
4	Use economic models and theories to predict the effects of changes in market forces/ government actions.
5	Apply quantitative models to value various economic variables and assets.
6	Apply knowledge of different market structures to inform business decisions related to cost theory, pricing and business.
7	Facilitate critical and informative discussion of economic issues, either in a formal business setting or in a more general and casual setting.
8	Research, write, and present term papers or projects, individually and collaboratively, in a relevant field of economics.

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Abstract

Degree or non-degree program

Non-Degree

Academic level

Undergraduate

Faculty

Business

Department

Economics

Program name

Minor in Economics

Program Code

MNR_AR_ECON



Program description

The Minor in Economics is intentionally designed as a high-impact complement to other degrees. Unlike a Major, it is focused, flexible, and skill-intensive.

Students gain strong quantitative and analytical skills without extending their degree timeline when they plan early.

Key distinguishing features:

- Emphasis on data literacy and analytical reasoning
- Zero Textbook Cost options in many courses
- Applied learning using real-world economic data and AI
- Frequent classroom engagement with industry professionals
- Small-class environments that encourage discussion and presentation skills

The Minor allows students to add formal economic training to degrees in Business, Science, Arts, Social Sciences, and beyond – strengthening both employability and graduate school readiness. ~~The BA Minor in Economics provides students with a solid understanding of economic principles as well as analytical and problem-solving skills. Training in Economics is an excellent foundation for students who wish to go on to complete advanced professional degrees such as law, community development, or business.~~

~~The study of Economics prepares students for careers in banking, financial advising and analysis, stock brokering, journalism, real estate, insurance, international trade and diplomacy, teaching, and all levels of government careers.~~

Implementation date

September 1, ~~2026~~ 2025

Proposed Program Overview

Program Structure & Delivery

Date for next review

September 2030

Will this program include a co-operative education option?

No

Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Supplementary Documents

Curriculum Map and Program Learning Outcomes

ECON Minor Curriculum Map.pdf

Other documents

~~determination_of_new_degree_2025-revision-Minor in Economics.docx~~

Key: 77



SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.4

Meeting Date: April 8, 2026

Presenter(s): Alek Egi

AGENDA TITLE: **PROGRAM REVISION: DIPLOMA IN BREWING AND BREWERY OPERATIONS**

ACTION REQUESTED: **Motion**

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the admissions changes to the Diploma in Brewing and Brewery Operations program, effective September 1, 2027.

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026.

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan [Indication date of approval](#)
- Other issue Brewing Micro-Credential students can complete all courses within a credential without being admitted to the program, while Brewing Diploma students must meet the math requirement before admission. The Brewing Department would also like to remove the Letter of Intent from the program's admission requirements, as it does not provide information critical for admission decisions.

Context and Background

With the introduction of Brewing Micro-Credentials and the decision to open HOPS courses within these credentials to all KPU students, the Brewing Department proposes removing the math requirement (E1 on the Math Table) from the program's admission criteria. As math is not a prerequisite for any HOPS courses, retaining this requirement creates an inconsistency: Micro-Credential students can complete all required courses without being formally admitted to the program, while Brewing Diploma students must satisfy the math requirement prior to admission. Eliminating this requirement would promote greater consistency and fairness between these groups.

The Brewing Department also proposes removing the Letter of Intent from the program's admission requirements, as it does not provide information that influences admission decisions. Its primary purpose has been to indicate an applicant's intended stream (e.g., Diploma, Certificate, or Micro-Credential), which can be identified through other means without requiring a Letter of Intent.

Key Messages

1. Remove the math requirement (E1 on the Math Table) from the program's admission criteria
2. Remove the Letter of Intent from the program's admission requirements

Consultations

1. Brewing Department
2. Brett Favaro, Dean, Faculty of Science

Attachments

1. CIM Program: [Diploma in Brewing and Brewery Operations](#)

Submitted by

Alek Egi, Chair, Brewing Department

Date submitted

March 18, 2025



DI_ST_HOPS: DIPLOMA IN BREWING AND BREWERY OPERATIONS

In Workflow

1. Brewing Chair (Alek.Egi@kpu.ca)
2. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
3. Provost (meredith.laird@kpu.ca)
4. ORegCurrConsult (oregcurrconsult@kpu.ca)
5. ST Curriculum Committee (richard.popoff@kpu.ca)
6. ST Council (brett.favaro@kpu.ca; Allyson.Rozell@kpu.ca)
7. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
8. Senate Standing Committee on Curriculum (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
9. Senate (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
10. Calendar Editor (calendar.editor@kpu.ca)

Approval Path

1. 2025-11-27T17:51:38Z
Alek Egi (Alek.Egi): Approved for Brewing Chair
2. 2025-12-19T23:31:49Z
Brett Favaro (brett.favaro): Approved for ST Dean
3. 2025-12-23T16:58:19Z
Meredith Laird (meredith.laird): Approved for Provost
4. 2026-01-09T17:01:19Z
Ashley Allison (ashley.allison): Approved for ORegCurrConsult
5. 2026-03-06T03:30:06Z
Richard Popoff (Richard.Popoff): Approved for ST Curriculum Committee
6. 2026-03-18T00:40:43Z
Allyson Rozell (Allyson.Rozell): Approved for ST Council
7. 2026-03-18T20:37:33Z
Brett Favaro (brett.favaro): Approved for ST Dean

History

1. Nov 28, 2023 by clmig-dbogges
2. Jul 10, 2024 by Ashley Allison (ashley.allison)
3. May 1, 2025 by Virginia Vandenberg (virginia.vandenberg)
4. Jun 6, 2025 by Ashley Allison (ashley.allison)

Date Submitted: 2025-11-26T22:29:36Z

Viewing: DI_ST_HOPS : Diploma in Brewing and Brewery Operations

Last approved: Fri, 06 Jun 2025 20:02:49 GMT

Last edit: 2026-02-09T15:41:57Z

Changes proposed by: Alek Egi

Determination of new degree?

No

Overview

Program proposal contact(s)

Alek Egi

Calendar year edition

2027-2028 ~~2025-2026~~



Overview of proposed changes

	Proposed Changes	Rationale
1	Remove the math (E1 on the Math Table) from the program's admission requirements	With the introduction of the Brewing Micro-Credentials and the decision to open HOPS courses which are part of these Micro-Credentials to all KPU students, the Brewing Department would like to remove the math requirement (E1 on the Math Table) from the program's admission criteria. Since math is not a prerequisite for any of the HOPS courses, maintaining this requirement creates an inequity: Micro-Credential students can complete courses within a credential without ever being admitted to the program, while Brewing Diploma students must meet the math requirement before admission. Removing this requirement would help ensure consistency and fairness across both groups.
2	Remove the Letter of Intent from the program's admission requirements	The Brewing Department would like to remove the Letter of Intent from the program's admission requirements, as it does not provide information that affects admission decisions. Its only function has been to indicate which stream the applicant intends to pursue (e.g., Diploma, Certificate, or Micro-Credential), and this can be determined through other means without requiring an LOI.

Requirements

Admission Requirements

In addition to the Faculty's Admission Requirements, which consist of KPU's undergraduate English Proficiency Requirement (<https://calendar.kpu.ca/admissions/english-proficiency-requirements/>), the following program admission requirements apply:

- ~~A letter of intent, of about 500 words, addressing~~
 - ~~your interest in attending the Brewing and Brewery Operations program~~
 - ~~the qualities you possess that make you a good candidate for this program~~
- A minimum of 19 years of age by the first day of classes
- Either
 - a. Chemistry 11 with a minimum grade of C+ (or equivalent), ~~and Level E1 as defined in the Math Alternatives Table~~ (<https://calendar.kpu.ca/course-information/mathematics-alternatives-table/>); or
 - b. Recommendation by the Admissions Selection Committee.

Selection of qualified applicants for admission will be made by an Admissions Selection Committee which may comprise faculty and staff.

For more information about the Brewing and Brewery Operations program, visit kpu.ca/science/brew (<https://www.kpu.ca/science/brew/>).

For detailed information on the letter of intent requirements, visit kpu.ca/science/brew/apply (<https://www.kpu.ca/science/brew/apply/>).

Curricular Requirements

Note: HOPS courses are assessed Tuition Category 2.a.5 (<https://calendar.kpu.ca/registration/tuition-mandatory-student-fees/>) tuition and fees for domestic students.

Students must complete a minimum of 62 credits that include:

Year 1		Credits
Term 1		
HOPS 1100	Introduction to Brewing	3
HOPS 1105	Brewing 1	3
HOPS 1110	Beer Sensory Evaluation	3
HOPS 1212	Brewing Chemistry	4
Elective (https://calendar.kpu.ca/#electives)		3
		Credits
		16
Term 2		
HOPS 1205	Brewing 2	3
HOPS 1211	Brewing Microbiology	4
HOPS 1213	Brewing Equipment and Technology	3
HOPS 1214	Introduction to Cellaring and Packaging	3

Elective (https://calendar.kpu.ca/#electives)		3
Credits		16
Year 2		
Term 3		
HOPS 2305	Brewing 3	3
HOPS 2314	Advanced Cellaring and Packaging	3
HOPS 2315	Calculations and Recipe Formulation	3
HOPS 2422	The Brewing Industry	3
PHIL 3033	Business Ethics	3
Credits		15
Term 4		
HOPS 2310	Beer Evaluation and Judging Revised Course	3
HOPS 2405	Brewing 4	6
HOPS 2420	Beer Marketing and Sales	3
HOPS 2421	Brewery Management Business Planning	3
Credits		15
Total Credits		62

Electives

Code	Title	Credits
Select two of the following:		
CBSY 1110	Business Problem Solving with Spreadsheets	6
CMNS 1140	Introduction to Professional Communication Revised Course	
HIST/HOPS 2308	Brewing History: Fermentations from Beer to Distilling in Global History & Cultures	
3 credits from a course in CBSY, CMNS, CPSC or INFO at the 1100 level or higher		

Other Information

CSA-approved footwear is required, along with course-specific safety gear.

Credential Awarded

Upon successful completion of this program, students are eligible to receive a **Diploma in Brewing and Brewery Operations**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	Demonstrate and evaluate safe work practices based on hazard analysis.
2	Demonstrate the fundamental techniques of beer production.
3	Apply knowledge of beer chemistry and microbiology in brewery operations
4	Evaluate appropriate process technology practices in brewery operations.
5	Evaluate and control the consistency and quality of beer using chemical, microbiological and sensory analysis
6	Relate the history and evolution of the beer industry to today's market, beer styles and regulations.
7	Develop a product portfolio that addresses consumer needs.
8	Discuss and apply business principles and strategies related to running a brewing company.

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

**Change in support requirements?**

No

Consultation requests~~Chair of other Department~~Office of the Registrar**Other departments****Departments**

History

Abstract**Degree or non-degree program**

Non-Degree

Academic level

Undergraduate

Faculty

Science

Department

Brewing

Program name

Diploma in Brewing and Brewery Operations

Program Code

DI_ST_HOPS

Program description

The Diploma in Brewing and Brewery Operations is a two-year diploma where students study the science, production and business of brewing craft beer. The program combines building a solid foundation in brewing science with hands-on practical learning in our state-of-the-art 2 hectoliter pilot brewery located on the Langley campus. The curriculum was developed in consultation with the BC Craft Brewers Guild and an Advisory Committee consisting on local brewmasters, brewery owners and industry experts.

Implementation date

September 2025

Proposed Program Overview**Program Structure & Delivery****Proposed credential(s) to be granted****Credential Level**

Diploma

Date for next review

September 2030

Will this program include a co-operative education option?

No



Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Supplementary Documents

Curriculum Map and Program Learning Outcomes

Diploma Brewing and Brewery Operations Curriculum Map_22April2025.xlsx

Other documents

Curriculum Consultation_Brew Diploma.docx

Key: 146

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.5

Meeting Date: April 8, 2026

Presenter(s): Michael Poon

AGENDA TITLE: **PROGRAM REVISION: DIPLOMA IN ENGINEERING PHYSICS**

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Diploma in Engineering Physics program, effective September 1, 2026.

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026.

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan Indication date of approval
- Other issue Declaration requirements missed in original program proposal; Proactive changes to MATH requirements to prevent possible duplication of courses and to provide flexibility.

Context and Background

Declarations

During the original program proposal and approval stages, the program declaration requirements for the open-intake Diploma in Engineering Physics were overlooked. A number of the Diploma courses

are shared with the limited-intake Certificate in Engineering program, with a limited number of seats available. To ensure that both Certificate and Diploma students can progress through their programs in a timely manner, seats will be reserved for the Certificate students and declared-Diploma students. The proposed declaration requirements – PHYS 1120 and MATH 1120 with at least a C – will help ensure that those reserved seats only go to students who are able to progress through the Diploma program – half of the Diploma courses require either PHYS 1120 or MATH 1120 as a prerequisite, either directly, or indirectly.

MATH requirement changes:

The Diploma in Engineering Physics was designed to provide students with a complete first-year engineering curriculum to allow seamless transfer into the second-year of an engineering degree program, as well as provide sufficient overlap with the second-year Physics for Modern Technology (PMT) curriculum to allow students to ladder into third-year of the PMT program. The original Diploma program proposal took the MATH requirements of both the Certificate in Engineering, and the PMT programs, but did not notice the curriculum overlap between two of the MATH requirements – one of MATH 1152/2232, and MATH 2721. This required change of the MATH requirements provided an opportunity to also update the MATH requirements to make the Diploma program more flexible and robust to specific course enrolment challenges.

Key Messages

1. Added declaration requirements to ensure qualified students are able to complete the program in a timely manner.
2. Updated MATH requirements to remove curricular overlap and make the program more flexible and robust.

Consultations

1. OREG – Dec 2025
2. Advising – Science, General, International – Dec 2025
3. Departmental – Physics (Dec 2025); Math Chair (Jan 2026)

Attachments

1. CIM Program: [Diploma in Engineering Physics](#)
-

Submitted by

Michael Poon, Chair, Physics

Date submitted

March 24, 2026



DI_ST_ENPY: DIPLOMA IN ENGINEERING PHYSICS

In Workflow

1. Physics Chair (Flavio.RuizOliveras@kpu.ca)
2. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
3. Provost (meredith.laird@kpu.ca)
4. ORegCurrConsult (oregcurrconsult@kpu.ca)
5. ST Curriculum Committee (richard.popoff@kpu.ca)
6. ST Council (brett.favaro@kpu.ca; Allyson.Rozell@kpu.ca)
7. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
8. Senate Standing Committee on Curriculum (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
9. Senate (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
10. Calendar Editor (calendar.editor@kpu.ca)

Approval Path

1. 2026-01-23T19:49:26Z
Flavio Ruiz Oliveras (Flavio.RuizOliveras): Approved for Physics Chair
2. 2026-02-06T00:31:44Z
Brett Favaro (brett.favaro): Approved for ST Dean
3. 2026-02-13T19:41:01Z
Meredith Laird (meredith.laird): Approved for Provost
4. 2026-02-17T21:08:58Z
Ashley Allison (ashley.allison): Approved for ORegCurrConsult
5. 2026-03-06T03:30:02Z
Richard Popoff (Richard.Popoff): Approved for ST Curriculum Committee
6. 2026-03-18T00:40:48Z
Allyson Rozell (Allyson.Rozell): Approved for ST Council
7. 2026-03-18T20:37:40Z
Brett Favaro (brett.favaro): Approved for ST Dean

History

1. Jul 2, 2025 by Michael Poon (Michael.Poon)

New Program Proposal

Date Submitted: 2026-01-23T19:34:38Z

Viewing: DI_ST_ENPY : Diploma in Engineering Physics

Last approved: Wed, 02 Jul 2025 16:50:05 GMT

Last edit: 2026-02-17T17:16:30Z

Changes proposed by: Ashley Allison

Reviewer comments

Virginia Vandenberg (virginia.vandenberg) (Mon, 26 Jan 2026 17:24:02 GMT): Made editorial corrections to the Rationale fields on proponent's behalf.

Virginia Vandenberg (virginia.vandenberg) (Tue, 27 Jan 2026 22:09:56 GMT): Added revised curriculum map on behalf of proponents.

Krista Gerlich-Fitzgerald (krista.gerlichfitzgerald) (Tue, 17 Feb 2026 17:14:14 GMT): The rationale for including 3000-level courses in a diploma is reasonable. Students have an option to complete the program not using them.

Overview

Calendar year edition

2026-2027 ~~2025-2026~~

Overview of proposed changes

	Proposed Changes	Rationale
1	Addition of explicit Declaration Requirements for the program.	The specified courses, PHYS 1120 and MATH 1120, represent the minimum requirements for a student in the Diploma in Engineering Physics program to progress in the program. Half of the Engineering Physics Diploma curriculum (ten out of twenty courses) requires either PHYS 1120 or MATH 1120 as a prerequisite, directly or indirectly. These changes to declaration ensure that declared students are able to continue in the Diploma program.
2	Changes to MATH curricular requirements.	<p>Removal of MATH 2721 due to significant content overlap with the existing MATH 1152 or 2232 requirement such that a student may only receive credit for one of these courses.</p> <p>Removal of MATH 2821 due to low enrolment issues resulting in the course frequently being cancelled.</p> <p>Conversations within Physics Department indicate that MATH 2721 & MATH 2821 (which were specifically developed for the Physics for Modern Technology program) will also be removed from the PMT program in favour of more standard MATH courses with sustainable enrolment and regular offerings.</p> <p>Selection of MATH 2321 as a required course due to the high degree of transferability to potential degree programs for graduates. A survey of the curricular requirements for the engineering programs at UBC, UVic & SFU found the equivalent to KPU MATH 2321 was universally required by these engineering programs. MATH 2321 also satisfies the corequisite or prerequisite conditions for a number of PHYS courses within the PMT program.</p> <p>Removing MATH 2721 and MATH 2821 will not significantly change the curriculum map because of the content overlap between MATH 2721 and the existing Diploma courses MATH 1152 or 2232, and the content overlap between MATH 2821 and the required MATH 2321.</p> <p>The other MATH options – MATH 3322, MATH 3421 & STAT 2315 – were required by some of the engineering degree programs. Providing options for these three MATH credits allows the student to select the course that best complements their future studies.</p>

Requirements

Admission Requirements

Students pursuing a Diploma in Engineering Physics must be admitted to the Faculty of Science (<https://calendar.kpu.ca/programs-az/science/admission-requirements/>).

Declaration Requirements

Students intending to graduate with this Faculty of Science diploma must declare the credential. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University.
- Completion of a minimum of 15 credits of undergraduate coursework, including:
 - PHYS 1120 with a minimum grade of "C"
 - MATH 1120 with a minimum grade of "C"



Curricular Requirements

Students must complete a minimum of 60 credits that include all of the following:

Code	Title	Credits
APSC 1124	Introduction to Engineering	1
APSC 1151	Introduction to Engineering Graphics	3
APSC 1299	Introduction to Microcontrollers	3
CHEM 1110	The Structure of Matter Revised Course	4
CPSC 1103	Principles of Program Structure and Design I	3
ENGL 1100	Introduction to University Writing	3
MATH 1120	Differential Calculus	3
MATH 1220	Integral Calculus	3
MATH 2321	Multivariate Calculus (Calculus III)	3
PHYS 1120	Physics for Physical and Applied Sciences I	4
PHYS 1220	Physics for Physical and Applied Sciences II	4
One of:		4
CHEM 1154	Chemistry for Engineering Revised Course	
CHEM 1210	Chemical Energetics and Dynamics Revised Course	
One of:		3
MATH 1152	Matrix Algebra for Engineers	
MATH 2232	Linear Algebra	
One of:		3
MATH 3322	Vector Calculus (Calculus IV)	
Or		
MATH 2721	Complex Numbers and Linear Algebra	
MATH 2821	Multivariate and Vector Calculus	
MATH 3421	Ordinary Differential Equations	
STAT 2315	Probability and Statistics	
One of:		3
PHYS 1141	Engineering Mechanics	
PHYS 1170	Mechanics I	
Four of, with at least one from List A and one from List B		12
List A		
PHYS 2100	Experimental Physics	
PHYS 2600	Electronics	
PHYS 2610	Sensors and Actuators	
List B		
PHYS 2010	Modern Physics	
PHYS 2030	Classical Mechanics	
PHYS 2040	Thermal Physics	
PHYS 2420	Electricity and Magnetism	
Elective	3 credits from a course outside the Faculty of Science at the 1100 level or higher	3
Total Credits		62

Credential Awarded

Upon successful completion of this program, students are eligible to receive a **Diploma in Engineering Physics**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:		
1	To apply scientific concepts, principles and laws of physics and chemistry to solve both theoretical and practical problems related to physics and chemistry	
2	To apply theoretical concepts, principles and proofs in mathematics to solve both theoretical and practical problems	
3	To effectively and safely operate scientific and industry equipment and hardware to acquire accurate and reliable data	



4	To apply software technologies and computer programming techniques to generate solutions that meet the requirements of a client-specified problem
5	To apply scientific knowledge and use a structured and systematic process to generate viable solutions to multi-disciplinary, open-ended, real-world problems
6	To use written, oral and graphical communication to effectively and concisely convey thoughts and ideas to both a technically-fluent and non-technical audience

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Consultation requests

Academic Advising
 Chair of other Department
 Disability, Accessibility, and Inclusion
 Information Technology
 KPU International
 Library
 Marketing
 Organizational Risk
 Student Awards and Financial Assistance
 University Space Administration

Other departments

Departments

Chemistry

Mathematics

Abstract

Degree or non-degree program

Non-Degree

Academic level

Undergraduate

Faculty

Science

Department

Physics

Program name

Diploma in Engineering Physics



Program Code

DI_ST_ENPY

Program description

The Diploma in Engineering Physics will include all the courses necessary to transfer into a second-year engineering program (at another university), as well as satisfying most of the first-year requirements of the B.Sc., PMT. The diploma will also include second-year math and physics courses that are transferrable to other PSIs, and meet graduation requirements for KPU's B.Sc., PMT. To be granted the Diploma in Engineering Physics, students will be required to complete 20 courses, totalling 62 credits. Students who complete this credential will be able to continue at KPU to complete the third and fourth years of the B.Sc., PMT program, or transfer into the second-year of an engineering degree program at institutions such as UBC, UVIC or SFU.

Students who complete the Diploma in Engineering Physics will have:

- A foundation of undergraduate physics and math sufficient to pursue upper-level physics and math topics.
- A foundation of applied science topics, including engineering design and engineering graphics.
- A foundation in microcontrollers, including theory, programming, and applications.
- Met the requirements for transfer into second-year of any engineering degree in British Columbia (except BCIT engineering degrees).

Program concentration(s)

Applied Science (APSC) - 7 credits (introductory)

Math (MATH) - 15 credits (introductory and intermediate)

Physics (PHYS) - 23 credits (introductory and intermediate)

Implementation date

September 2026

Proposed Program Overview

Program Structure & Delivery

Proposed credential(s) to be granted

Credential Level
Diploma

Date for next review

September 2031

Alignment with KPU mission and mandate, strategic plan and academic plan

The Department of Physics is seeking approval to create a Diploma in Engineering Physics. This credential will leverage existing courses within the Certificate in Engineering and Bachelor of Science, Major in Physics for Modern Technology (B.Sc., PMT) programs to accomplish three objectives:

1. Create an explicit pathway for students in the Certificate in Engineering (transfer) program to ladder into the B.Sc., PMT.
2. Provide international students with an attractive two-year credential to begin their engineering or physics studies.
3. Provide students who are not accepted or qualified for the limited-intake Certificate in Engineering program with an opportunity to study engineering at KPU via an open admission Diploma in Engineering Physics program.

By leveraging existing courses to create a new credential in a growing job sector, the Diploma in Engineering Physics will help KPU meet goals B3 and C2 of Vision 2023. This new credential's goals of creating pathways from the Certificate in Engineering to the B.Sc., PMT will provide a flexible pathway for all students to study engineering at KPU. This aligns with KPU's 2023 Academic Plan to create clean transitional pathways (Strategy 1.2), provide flexible curriculum (Strategy 1.3), and provide adult learners with opportunities to study at KPU (Strategy 1.5). The Diploma in Engineering Physics also strongly aligns with goal 4: "build a next generation KPU International", by creating a new academic program that is attractive for international students.

The creation of a two-year diploma in Engineering was recommended in the 2017 Certificate in Engineering, and 2023 B.Sc., PMT quality assurance plans.

Will this program include a co-operative education option?

No



Discipline and Program Description

Description of discipline

Engineering is the application of science, mathematics, technology, experience, and the engineering design process to solve problems for the benefit of society and the environment. Physics is the science of matter, motion and energy. The Diploma in Engineering Physics will provide a curriculum that covers aspects of both engineering and physics.

Expected time to complete

4 semesters for full-time studies (15 credits/semester)

Total number of credits

62

Proposed domestic tuition

Bylaw 4 - Credit Based Programs, Category 1

Type of intake

Open Intake

Cohort delivery?

No

Alternative entry options

Transfer Credit
PLAR

Course Delivery Options

Part-time studies possible?(i.e., students can choose to study part-time)

Yes

Notes

Students will be able to complete the program at their own pace, whether it be as a full-time or part-time students.

Evening delivery

Yes

Notes

Some courses may have multiple sections that may have both daytime and evening sections; however, not all courses in this program will have that option.

Weekend delivery

No

In person

Yes

Online or blended

Yes

Delivery description

This program will be using existing courses, of which, some may be offered in different delivery modes. This program will not mandate any particular course delivery mode.

Program Delivery Options

Co-op education program/practicum/clinical practice, etc. available

No



Will graduates require certification?

No

Will the program have to meet external accreditation requirements?

No

Information for Competitive Assessment

Related programs at other PSIs

Langara College - Diploma in Applied Science for Engineering.
 Capilano University - Engineering Transition Diploma.
 Douglas College - Diploma in Engineering and Fabrication Technologies.
 University of the Fraser Valley (UFV) - Engineering Physics Diploma in Mechatronics.
 Vancouver Island University (VIU) - Engineering Transfer Diploma.
 Vancouver Island University (VIU) - Integrated Engineering Technologist Diploma.

Unique aspects/program strengths

The KPU Diploma in Engineering Physics will be most similar to the Douglas and UFV offerings, but differentiates itself from these diploma programs primarily by the number of transferrable second-year courses required. In addition to the courses within the Certificate in Engineering, the diploma includes second-year math and physics courses that all provide second-year transfer credit to at least one of the major research universities in BC. The KPU Diploma in Engineering Physics has been set-up more as an intermediate stepping stone towards a degree program in either physics or engineering. As an end credential, this diploma will provide students with the knowledge and skills to attain a job after graduation that is similar in scope to the work experience positions for the third-year B.Sc., PMT students (see Labour Market Assessment).

The admission requirements for the limited-intake Certificate in Engineering program can create barriers for students wanting to study engineering, but who are ineligible for admission to the Certificate in Engineering program. The creation of an open-intake Diploma in Engineering Physics at KPU will provide these local students in Richmond and Surrey, as well as international students, with the option to pursue engineering studies at KPU, rather than travelling to Langara, Douglas or UFV to begin their engineering studies.

New or existing courses only?

Existing

Relationship with existing KPU programs

The Diploma in Engineering Physics will complement the existing Certificate in Engineering (one year, limited intake, cohort based) by providing a place at KPU for recent high school graduates and mature students wanting to study engineering on a part-time basis, or needing course upgrading.

The diploma aims to increase enrolment in existing courses and the B.Sc., PMT program as a whole by facilitating the conversion of engineering transfer students into B.Sc., PMT students. It is hoped that exposure to the B.Sc., PMT specific courses in the Diploma will help convince the engineering transfer students to switch to B.Sc., PMT and stay at KPU, therefore increasing enrolment in upper-level B.Sc., PMT courses. As well as converting some engineering students to the B.Sc., PMT, some students who plan to study physics may be interested in completing the diploma before laddering into the B.Sc., PMT.

Information for Student Demand Assessment

New applicants to KPU

This credential would be attractive for any new student to study at KPU. As a flexible, open-intake, 2-year Diploma in Engineering Physics, this program will attract students applying directly from high school, students coming back to school for a career change, and international students.

Current KPU students

Current pathway, exploratory and undeclared KPU students may be attracted to the Diploma in Engineering Physics. These students may already have considered pursuing engineering, but required course upgrading. For students who entered KPU without a clear career path, the employment possibilities with engineering may entice them to try a career in engineering.

Students in KPU's Certificate in Engineering program may, for whatever reason, decide not to transfer out of KPU to pursue an engineering degree. Instead, the students may opt for a diploma credential that will open more employment opportunities than a certificate, but can be completed in two, rather than four years for a bachelors degree.

Physics-intended students and B.Sc., PMT students may also opt for the two-year diploma as either an exit credential, or as a stepping-stone towards the B.Sc., PMT degree. The two-year option may be attractive to physics students facing financial or academic hardships with a four-year degree.

As an open-intake program, current KPU students could switch into the diploma program and pursue the required curriculum at their own pace, earning credit for KPU courses already taken.

Domestic/international students

The Diploma in Engineering Physics will be attractive to both domestic and international students. This program is expected to appeal to international students because of the attractive field of study (engineering). The length of study (2 years) allows for graduates to apply for a three-year post-graduation work permit (PGWP).

Faculty of Science Degree Advisors Hannah Cenaiko and Andrea Flelo have been consulted, and are in support of this program as a flexible engineering option for domestic students, and an attractive option for international students.

Information for Labour Market Assessment

Main skills graduates will have upon completion of program

Main Skills

Critical thinking and analytic problem solving in undergraduate level math and physics.

Knowledge of the engineering design process and its application to complex problem solving.

Producing and interpreting engineering drawings—both manual and CAD drawings.

Theory, programming and application of micro-controllers.

Experience using laboratory equipment commonly used in chemistry, physics and electronics.

Competency in writing technical reports.

Working collaboratively in teams.

Sectors/types of employers that would most likely hire new graduates

According to the BC Labour Market Outlook, 2023 Edition, STEM professions are the only skills-based cluster where job openings due to job expansion (46,300) will be greater than job replacement (33,800). It should be noted that the graduate skills from the proposed Diploma in Engineering Physics matches closely with the top five skills for STEM professionals; namely, programming, technology design, mathematics, and science.

It is anticipated that graduates of the Diploma in Engineering Physics will be able to find employment in fields akin to the work experience positions attained by third-year B.Sc., PMT students. Employment areas include:

robotics; green energy technology; manufacturing engineering; biomedical engineering; software development; engineering production; physics research; particle accelerator technology; satellite image analysis, optics; optical engineering; agricultural technology, and electronics.

These employment areas are part of the “professional, scientific and technical services” industry group, with 142 400 job openings forecasted over the next ten years, of which 78,200 will be from job market expansion (BC Labour Market Outlook, 2023 Edition).

Occupations and job titles for which new graduates would be qualified

Job Title	National Occupational Classification (NOC) Code
Chemical technologists and technicians	22100
Drafting technologists and technicians	22212
Non-destructive testers and inspectors	22230
Mechanical engineering technologists and technicians	22301
Industrial engineering and manufacturing technologists and technicians	22302
Electrical and electronics engineering technologists and technicians	22310
Industrial instrument technicians and mechanics	22312
Technical sales specialists	62100



Financial Assessment Background Questions

Funding

No Funding

Class size

Lectures - 35 seat maximum

Labs - 20 seat maximum

Workload

Two existing courses, APSC 1124 and APSC 1299, are currently running at 6.25 % FTE per section. All other courses listed as program requirements are currently 12.5% FTE.

New department?

No

Admin support in addition to Chair

Yes

Specialized equipment

Consumable Supplies

Equipment

Specialized software

Specialized teaching space

Computer labs

Labs

Program personnel

Other (Please specify)

Explain

The proposed program will be delivered by the already existing Department of Physics, under the current time release of the Engineering Chair, so no additional chair release will be required.

Administrative support will be required to create and update a new webpage for the program, as well as support for marketing the new program.

Since the Engineering Physics Diploma program makes use of existing courses (with existing labs), there are no capital costs to this program. The only equipment-related costs would be for consumables due to higher enrolment numbers.

Again, since the proposed Diploma is making use of existing courses only, all of the required computer labs and science labs are already available.

Many of the courses required for the Engineering Physics Diploma are currently under-enrolled, particularly at the KPU Richmond campus. Implementation of this program should increase enrolment in these courses. Hiring of contract lab instructors or contract faculty will only be required if there is sufficient demand to offer additional sections.

Preferred campus delivery

Richmond

Surrey

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[Curriculum Map—Diploma in Engineering Physics_17 Jan 2025.xlsx](#)

[Curriculum Map - Diploma in Engineering Physics - update Jan2026.xlsx](#)

Financial assessment

Diploma in Engineering Physics_Memo on Section Limits_Final.pdf



Full program proposal

bc-non-degree-proposal_diploma engineering physics_19 Feb 2025.doc

Other documents

Dipl Engineering Physics_Curriculum Consultations_21 Mar 2025.docx

Key: 178

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.6

Meeting Date: April 8, 2026

Presenter(s): Layne Myhre

AGENDA TITLE: PROGRAM REVISION: BACHELOR OF SCIENCE, MAJOR IN BIOLOGY, BACHELOR OF SCIENCE (HONOURS), MAJOR IN BIOLOGY

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the following programs, effective September 1, 2026,

- Bachelor of Science, Major in Biology
- Bachelor of Science (Honours), Major in Biology

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

Arising from an approved Quality Assurance Plan October 19, 2022

Other issue This change was not specifically detailed in the QA plan approved on October 19, 2022; however, the QA plan described ongoing plans to update our Course Outlines to align with Program Learning Outcomes, and that process has necessitated minor program revisions to Honours Declaration, detailed below.

Context and Background

As part of our ongoing updates to course outlines to update Learning Outcomes to map with our program review (as indicated in our QA plan), we have aligned the Outlines of research courses that are taught together (BIOL 4199/4299, HSCI 4199/4299, BIOL 4990/4995, and HSCI 4990/4995). In doing so, we daylighted issues with declaration into our B.Sc. Honours programs (Major in Biology and Major in Health Science). Program requirements for Honours were previously vague and not well-described in the calendar, leading to student confusion. Further, the mechanism for entry was based on registration in the 4990 courses, rather than specific program declaration. This meant that students accepted for Honours did not get the designation on transcripts until after completing registration in September (so it would not show up on documents until January), causing problems for students applying to graduate programs.

In order to properly code students into Honours in a timely fashion, and to prevent confusion for students eligible to apply, and after several consultations with the Registrar on appropriate requirements for Honours, we have added specific entry requirements to both Honours programs. These requirements also bring our Honours programs more in line with other Honours programs at KPU and other institutions.

In addition, we have made an outstanding change in alignment with the BIOL October 2022 QA plan, in which we determined to explore improved first-year writing curriculum requirements. At the time, there was no practical mechanism to implement any change; now that there are specific WI-status English classes, we have replaced the previous 3 Credits in ENGL with 3 Credits from the WI-status list.

Key Messages

1. Course Outlines are now aligned with each other to reflect the single classroom environment; clearer learning outcomes are described in all 4 courses in each semester (BIOL 4199, 4990 in Fall and BIOL 4299/4995 in Winter)
2. Honours Program changes now include specific entry requirements (Prior declaration into B.Sc. program, BIOL 3180 grade of B or higher, minimum CGPA of 3.2 or letter of explanation, approval of the department)
3. B.Sc. Major Program changes allow BIOL 4990 and 4995 to be used in lieu of 4199 and 4299, respectively, which will permit students who are unable to maintain the honours eligibility to use those courses towards graduation with the Major.
4. Update of writing intensive course requirements in the first year of BIOL programs.

Consultations

1. Several meetings were held with OREG throughout Fall 2025 (October and November) to consult on Honours program options and best language for these changes.

2. OPRO Curriculum review of proposed changes occurred March 16, 2026
3. Consultation with Vice-Chair of Senate March 20, 2026

Attachments

1. CIM Programs:
[Bachelor of Science, Major in Biology](#)
[Bachelor of Science \(Honours\), Major in Biology](#)
 2. Related courses in CIM Courses:
[BIOL 4199 Research Project 1](#)
[BIOL 4299 Research Project 2](#)
[BIOL 4990 Honours Thesis Project 1](#)
[BIOL 4995 Honours Thesis Project 2](#)
-

Submitted by

Layne Myhre, Faculty Instructor, Dept. of Biology and Health Sciences, Faculty of Science

Date submitted

March 24, 2026



BIOLOGY AND HSCI HONOURS PROGRAM CHANGES

In Workflow

1. Biology Chair (jane.shin@kpu.ca;mikael.mokkonen@kpu.ca;kaylee.magee@kpu.ca)
2. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
3. Provost (meredith.laird@kpu.ca)
4. ORegCurrConsult (oregcurrconsult@kpu.ca)
5. ST Curriculum Committee (richard.popoff@kpu.ca)
6. ST Council (brett.favaro@kpu.ca; Allyson.Rozell@kpu.ca)
7. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
8. Senate Standing Committee on Curriculum (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
9. Senate (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
10. Calendar Editor (calendar.editor@kpu.ca)

Approval Path

1. 2026-01-22T01:56:06Z
Mika Mokkonen (mikael.mokkonen): Approved for Biology Chair
2. 2026-02-06T00:50:00Z
Brett Favaro (brett.favaro): Rollback to Biology Chair for ST Dean
3. 2026-02-18T01:07:28Z
Jane Shin (jane.shin): Approved for Biology Chair
4. 2026-02-23T21:58:32Z
Ashley Allison (ashley.allison): Approved for ST Dean
5. 2026-03-03T22:38:18Z
Meredith Laird (meredith.laird): Approved for Provost
6. 2026-03-03T22:52:29Z
Ashley Allison (ashley.allison): Approved for ORegCurrConsult
7. 2026-03-06T03:29:05Z
Richard Popoff (Richard.Popoff): Approved for ST Curriculum Committee
8. 2026-03-18T00:40:59Z
Allyson Rozell (Allyson.Rozell): Approved for ST Council
9. 2026-03-18T20:38:29Z
Brett Favaro (brett.favaro): Approved for ST Dean

History

1. Nov 28, 2023 by clmig-dboggess
2. Jul 9, 2024 by Ashley Allison (ashley.allison)
3. Mar 6, 2025 by Layne Myhre (Layne.Myhre)
4. May 12, 2025 by Ashley Allison (ashley.allison)
5. Oct 8, 2025 by Ashley Allison (ashley.allison)

Biology and HSCI Honours Program changes

Program

- BSCH_ST_BIOL: Bachelor of Science (Honours), Major in Biology
- BSC_ST_BIOL: Bachelor of Science, Major in Biology

Date Submitted: 2026-01-22T01:51:12Z

Viewing: BSC_ST_BIOL : Bachelor of Science, Major in Biology

Last approved: 2025-10-08T21:19:18Z

Last edit: 2026-03-30T21:01:35Z

Changes proposed by: Ashley Allison

Reviewer comments

Brett Favaro (brett.favaro) (Fri, 06 Feb 2026 00:50:00 GMT): Rollback: Per discussion at cur-comm, minor revisions will be made by Layne before resubmission



Virginia Vandenberg (virginia.vandenberg) (Sat, 28 Feb 2026 00:32:07 GMT): Associated course revisions: BIOL 4199, 4299, 4990, 4995

Virginia Vandenberg (virginia.vandenberg) (Mon, 30 Mar 2026 21:02:43 GMT): last Senate approved curriculum map attached to proposal at Senate office request

Overview

Calendar year edition

2026-2027

Considerations

Parameter	Notes
1	<u>Clarification from proponent: The rationale is mainly to more clearly delineate the Honours designation from the regular Major degrees; our previous program description only said that a "GPA of 3.0" maybe required, without clearly stating which GPA is referred to (CGPA, program GPA, etc.). We also had no differences in curriculum between the Honours and Major beyond the mandated research courses (4990/4995). There is an expectation in the sector that an Honour's degree includes the writing of a thesis, but also that a certain academic standard be involved. After consulting with OREG and referencing other Honour's programs at KPU and elsewhere, we determined that at least the GPA requirement should be more comparable. Increasing to a CGPA of 3.2, with specific grade standards for completion of the thesis, is more in line with other programs. Other institutions often include a formal committee defense requirement, but that is not easy to arrange; this is a compromise that increases the academic rigour without adding costs or additional Faculty time. The changes to the Major degrees is just to ensure that students who don't meet the Honours grade requirements can still use the 4990/4995 courses for graduation.</u>

Overview of proposed changes

Proposed Changes	Rationale
1 Permit the Honours courses BIOL 4990 and BIOL 4995 to substitute for BIOL 4199 and BIOL 4299, respectively.	To enable students to apply Honours credit toward the appropriate Research Project course and, if necessary, complete the credential without the Honours designation.

Requirements

Admission Requirements

The Faculty's Admission Requirements, which consist of KPU's undergraduate English Proficiency Requirement (<https://calendar.kpu.ca/admissions/english-proficiency-requirements/>), apply to this program.

Declaration Requirements

Students intending to graduate with this Faculty of Science degree must declare the credential by the time they complete 60 credits of undergraduate coursework. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University
- Completion of a minimum of 24 credits of undergraduate coursework, including the following:
 - 3 credits of ENGL at the 1100 level or higher
 - BIOL 1110 with a minimum grade of "C"
 - BIOL 1210 with a minimum grade of "C"

Curricular Requirements

All students must meet the following minimum requirements:

- In addition to ENGL 1100, complete 3 credits from courses designated as Writing Intensive.
- 120 credits from courses at the 1100 level or higher.
- 45 credits from courses at the 3000 level or higher, including 9 credits at the 4000 level.
- 18 credits of breadth electives (see Electives below) including at least 3 credits from a course at the 3000 level or higher. These must include:
 - at least 12 credits from courses that are offered outside the Faculty of Science; and
 - up to 6 credits from courses offered within the Faculty of Science other than BIOL, CHEM, MATH, and PHYS.
- Cumulative GPA of 2.0 or higher.
- At least 50% of all courses for the BSc, and at least 66% of upper-level courses for the BSc, must be completed at KPU.

The Biology Major requires the completion of a minimum of 132 credits, including the following specific course requirements.

Note: Some courses are only offered once per year. Please refer to the course timetable and speak with an Academic Advisor when planning.

		Credits
Year 1		
BIOL 1110	Introductory Biology I	4
BIOL 1210	Introductory Biology II	4
CHEM 1110	The Structure of Matter Revised Course	4
CHEM 1210	Chemical Energetics and Dynamics Revised Course	4
ENGL 1100	Introduction to University Writing	3
MATH 1130	Calculus for Life Sciences I ¹	3
MATH 1230	Calculus for Life Sciences II	3
PHYS 1101	Physics for Life Sciences I	4
PHYS 1102	Physics for Life Sciences II	4
Select three credits of ENGL at the undergraduate level		3
Credits		36
Year 2		
BIOL 2320	Genetics	4
BIOL 2321	Cell Biology	4
BIOL 2322	Ecology	4
BIOL 2421	Cellular Biochemistry	3
CHEM 2320	Organic Chemistry I Revised Course	4
CHEM 2420	Organic Chemistry II Revised Course	4
STAT 2335	Statistics for Life Sciences	3
Select six credits of Electives at the undergraduate level		6
Credits		32
Year 3		
BIOL 3150	Evolutionary Biology	4
BIOL 3180	Life Science Research Methods	3
Select at least one of:		4
BIOL 3215	Zoology	
BIOL 3225	Biology of Plants	
Select at least one of:		4
BIOL 3320	Molecular Genetics	
BIOL 3321	Advanced Cell and Molecular Biology	
Select at least 9 credits of BIOL at the 3000 level or higher		9
Select three credits of BIOL at the undergraduate level		3
Select six credits of Electives at the undergraduate level		6
Credits		33
Year 4		
Select at least one of:		3
BIOL 3165	Conservation Biology	
BIOL 4235	Marine Biology Revised Course	
Select at least one of:		4
BIOL 4140	Animal Physiology	
BIOL 4245	Developmental Biology	
Select at least 9 credits of BIOL at the 3000 level or higher		9
Select 9 credits of Electives at the undergraduate level		9
Select one of the following Groups:		6
Group A		
BIOL 4900	Special Topics	
Select three credits of BIOL at the 3000 level or higher		
Group B		



BIOL 4199	Research Project 1 Revised Course ²	
BIOL 4299	Research Project 2 Revised Course ³	
Credits		31
Total Credits		132

¹ MATH 1120 may be used as a substitute for MATH 1130.

² BIOL 4990 may be used as a substitute for BIOL 4199.

³ BIOL 4995 may be used as a substitute for BIOL 4299.

Credential Awarded

Upon successful completion of this program, students are eligible to receive a **Bachelor of Science, Major in Biology**.

Co-op Requirements

Co-operative Education Option

The Bachelor of Science, Major in Biology degree is offered with a Cooperative Education Option. Co-operative Education gives a student the opportunity to apply the skills gained during academic study in paid, practical work experience semesters. Degree students can complete a minimum of three work terms while completing their degree. Work terms generally occur full-time in separate 4 month work semesters. Work semesters alternate with academic study.

Students wishing to enter and participate in the Co-operative Education Option must meet the following requirements:

Declaration and Entrance Requirements

- Declaration into the Bachelor of Science, Major in Biology program
- Declaration of the co-operative education option prior to completion of 90 credits for the Bachelor of Science, Major in Biology program
- Minimum GPA of 2.7

Program Continuance Requirements

- Completion of COOP 1101 prior to completing 90 credits
- Minimum GPA of 2.7
- Instructor permission

Co-op Course Requirements

The Co-operative Education designation requires successful completion of the following courses:

Code	Title	Credits
Required		
COOP 1101	Introduction to Professional and Career Readiness	1
COOP 1150	Co-op Work Semester 1	9
COOP 2150	Co-op Work Semester 2	9
COOP 3150	Co-op Work Semester 3	9
Optional		
COOP 4150	Co-op Work Semester 4	
Total Credits		28

Note: COOP courses must be completed in ascending numerical order. Contact the Co-op office for information about the possibility of part-time work terms. COOP courses may be used only to satisfy the Co-op designation and cannot be used to satisfy other curricular requirements of the program.

Additional Requirements

In addition to the requirements stated above, all Co-op students must satisfy the General Co-operative Education Requirements.

Credential Awarded

Upon successful completion of this program, students are eligible to receive a **Bachelor of Science, Major in Biology, Co-operative Education Option**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:

- 1 Explain chemical, physical and mathematical concepts and relate them to biological structures, functions and processes.



2	Explain biological concepts and processes at the molecular and cellular levels.
3	Explain biological concepts and processes at the organismal, ecosystem, and biosphere levels.
4	Synthesize knowledge to compare key characteristics of the structure, function, development, and adaptations of organisms and acellular entities.
5	Apply the scientific method in designing and conducting experiments to investigate various natural phenomena.
6	Demonstrate competence in the safe practice and use of scientific instruments and equipment in both the laboratory and the field by following appropriate procedures.
7	Critically analyze problems, interpret data, and develop evidence-based solutions by applying knowledge and understanding of scientific principles.
8	Apply appropriate computational techniques, tools, models, and formulae to analyze and evaluate biological data.
9	Communicate and synthesize scientific information from a variety of sources in oral, visual, and written formats.
10	Evaluate the ethics of advances in biological knowledge, practice, understanding, and technology as they relate to contemporary world issues.
11	Develop teamwork and leadership skills through collaborative work in the laboratory, classroom, or field to address biological problems.

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Abstract

Degree or non-degree program

Degree

Academic level

Undergraduate

Faculty

Science

Department

Biology

Program name

Bachelor of Science, Major in Biology

Program Code

BSC_ST_BIOL

Program description

The B.Sc. Major in Biology is a foundational degree program strongly grounded in scientific methodology and practical skills. The structure and breadth of courses offered is designed to equip graduates with a high level of competency in the knowledge, skills and experience necessary for competitive entry into the workforce in a wide range of fields. Graduates will also be well prepared for entry into a professional school or graduate studies program.



Central to this program is the provision of a lab intensive experience where students learn first-hand, the appropriate use of equipment and techniques to investigate living organisms and how they function. Upper level courses build upon the core knowledge and skills developed in 1st and 2nd Year, allowing the exploration of more advanced biological concepts and practical techniques. This culminates in a community focused research or directed studies project which requires students to apply the knowledge and skills they have learned.

Implementation date

September 2025

Proposed Program Overview**Program Structure & Delivery****Proposed credential(s) to be granted****Credential Level**

Bachelor of Science

Date for next review

September 2030

Will this program include a co-operative education option?

No

Discipline and Program Description**Course Delivery Options****Program Delivery Options****Information for Competitive Assessment****Information for Student Demand Assessment****Information for Labour Market Assessment****Supplementary Documents****Curriculum Map and Program Learning Outcomes**

[BIOL Curriculum Map - approved by Senate 2024 01 2024.xlsx](#)

Key: 133



History

1. Nov 28, 2023 by clmig-dboggess
2. Jul 9, 2024 by Ashley Allison (ashley.allison)
3. Oct 24, 2024 by Ashley Allison (ashley.allison)
4. Mar 6, 2025 by Layne Myhre (Layne.Myhre)
5. May 12, 2025 by Ashley Allison (ashley.allison)
6. Oct 8, 2025 by Ashley Allison (ashley.allison)

Viewing: BSCH_ST_BIOL : Bachelor of Science (Honours), Major in Biology

Last approved: 2025-10-08T21:21:00Z

Last edit: 2026-03-30T21:02:03Z

Changes proposed by: Ashley Allison

Overview

Calendar year edition

2026-2027

Considerations

Parameter	Notes
1	<p><u>Clarification from proponent: The rationale is mainly to more clearly delineate the Honours designation from the regular Major degrees; our previous program description only said that a "GPA of 3.0" maybe required, without clearly stating which GPA is referred to (CGPA, program GPA, etc.). We also had no differences in curriculum between the Honours and Major beyond the mandated research courses (4990/4995). There is an expectation in the sector that an Honour's degree includes the writing of a thesis, but also that a certain academic standard be involved. After consulting with OREG and referencing other Honour's programs at KPU and elsewhere, we determined that at least the GPA requirement should be more comparable. Increasing to a CGPA of 3.2, with specific grade standards for completion of the thesis, is more in line with other programs. Other institutions often include a formal committee defense requirement, but that is not easy to arrange; this is a compromise that increases the academic rigour without adding costs or additional Faculty time. The changes to the Major degrees is just to ensure that students who don't meet the Honours grade requirements can still use the 4990/4995 courses for graduation.</u></p>

Overview of proposed changes

Proposed Changes	Rationale	
1	<p>Declaration Requirements changed to Honours Eligibility and simplified requirements. Changed CGPA 3.0 to 3.2, which must be maintained to be eligible to graduate with Honours.</p>	<p>Many requirements are already satisfied upon declaring into the BSc program, therefore the requirements have been simplified to a CGPA of 3.2 and submission of an application package for review by the Department of Biological and Health Sciences.</p>
2	<p>Addition of minimum grade of "B" in BIOL 4995.</p>	<p>A minimum grade of "B" is required. Students who earn a lower grade may repeat the course to qualify for graduation with honours (minimum CGPA 3.2). Students who do not repeat the course may apply the credit toward BIOL 4299 and complete the credential without honours.</p>



Requirements

Admission Requirements

The Faculty's Admission Requirements, which consist of KPU's undergraduate English Proficiency Requirement (<https://calendar.kpu.ca/admissions/english-proficiency-requirements/>), apply to this program.

Honours Eligibility

Eligibility for the Bachelor of Science (Honours), Major in Biology program is restricted to students declared in the BSc program and requires permission of the department. To apply, students must have completed a minimum of 75 credits at the 1100 level or higher, including BIOL 3180 with a minimum grade of B, and 6 program credits at the 3000 level or higher. Candidates should hold a CGPA of 3.2 (or give a detailed justification for lower CGPA), and submit an application package to be reviewed by the Department of Biological and Health Sciences.

Declaration Requirements

Students intending to graduate with this Faculty of Science degree must declare the credential by the time they complete 60 credits of undergraduate coursework. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University
- Completion of a minimum of 24 credits of undergraduate coursework, including the following:
 - 3 credits of ENGL at the 1100 level or higher
 - BIOL 1110 with a minimum grade of "C"
 - BIOL 1210 with a minimum grade of "C"

Curricular Requirements

All students must meet the following minimum requirements:

- In addition to ENGL 1100, complete 3 credits from courses designated as Writing Intensive.
- 120 credits from courses at the 1100 level or higher.
- 45 credits from courses at the 3000 level or higher, including 9 credits at the 4000 level.
- 18 credits of breadth electives (see Electives below) including at least 3 credits from a course at the 3000 level or higher. These must include:
 - at least 12 credits from courses that are offered outside the Faculty of Science; and
 - up to 6 credits from courses offered within the Faculty of Science other than BIOL, CHEM, MATH, and PHYS.
- Cumulative GPA of 3.2 ~~2.0~~ or higher.
- At least 50% of all courses for the BSc, and at least 66% of upper-level courses for the BSc, must be completed at KPU.

~~Enrolment in the Biology Honours program requires the permission of the Biology Department. In order to be considered for the Honours program, students must typically have a record of exceptional academic performance, including a minimum Grade Point Average of 3.0~~

The Bachelor of Science (Honours), Major in Biology degree requires the completion of a minimum of 134 credits, including the following specific course requirements.

Note: Some courses are only offered once per year. Please refer to the course timetable and speak with an Academic Advisor when planning.

Year 1		Credits
BIOL 1110	Introductory Biology I	4
BIOL 1210	Introductory Biology II	4
CHEM 1110	The Structure of Matter Revised Course	4
CHEM 1210	Chemical Energetics and Dynamics Revised Course	4
ENGL 1100	Introduction to University Writing	3
MATH 1130	Calculus for Life Sciences I ¹	3
MATH 1230	Calculus for Life Sciences II	3
PHYS 1101	Physics for Life Sciences I	4
PHYS 1102	Physics for Life Sciences II	4
Select three credits of ENGL at the undergraduate level		3
		36
Year 2		Credits
BIOL 2320	Genetics	4
BIOL 2321	Cell Biology	4
BIOL 2322	Ecology	4
BIOL 2421	Cellular Biochemistry	3
CHEM 2320	Organic Chemistry I Revised Course	4
CHEM 2420	Organic Chemistry II Revised Course	4

STAT 2335	Statistics for Life Sciences	3
Select six credits of Electives at the undergraduate level		6
Credits		32
Year 3		
BIOL 3150	Evolutionary Biology	4
BIOL 3180	Life Science Research Methods	3
Select at least one of:		4
BIOL 3215	Zoology	
BIOL 3225	Biology of Plants	
Select at least one of:		4
BIOL 3320	Molecular Genetics	
BIOL 3321	Advanced Cell and Molecular Biology	
Select at least 9 credits of BIOL at the 3000 level or higher		9
Select three credits of BIOL at the undergraduate level		3
Select six credits of Electives at the undergraduate level		6
Credits		33
Year 4		
BIOL 4990	Honours Thesis Project 1 Revised Course	4
BIOL 4995	Honours Thesis Project 2 Revised Course ²	4
Select at least one of:		3
BIOL 3165	Conservation Biology	
BIOL 4235	Marine Biology Revised Course	
Select at least one of:		4
BIOL 4140	Animal Physiology	
BIOL 4245	Developmental Biology	
Select at least 9 credits of BIOL at the 3000 level or higher		9
Select 9 credits of Electives at the undergraduate level		9
Credits		33
Total Credits		134

¹ MATH 1120 may be used as a substitute for MATH 1130.

² A minimum grade of "B" is required. Students who earn a lower grade may repeat the course to qualify for graduation with honours (minimum CGPA 3.2). Students who do not repeat the course may apply the credit toward BIOL 4299 and complete the credential without honours.

Credential Awarded

Upon successful completion of this program, students are eligible to receive a **Bachelor of Science (Honours), Major in Biology**.

Co-op Requirements

Co-operative Education Option

The Bachelor of Science (Honours), Major in Biology degree is offered with a Cooperative Education Option. Co-operative Education gives a student the opportunity to apply the skills gained during academic study in paid, practical work experience semesters. Degree students can complete a minimum of three work terms while completing their degree. Work terms generally occur full-time in separate 4 month work semesters. Work semesters alternate with academic study.

Students wishing to enter and participate in the Co-operative Education Option must meet the following requirements:

Declaration and Entrance Requirements

- Declaration into the Bachelor of Science (Honours), Major in Biology program
- Declaration of the co-operative education option prior to completion of 90 credits for the Bachelor of Science (Honours), Major in Biology program
- Minimum GPA of 2.7

Program Continuance Requirements

- Completion of COOP 1101 prior to completing 90 credits
- Minimum GPA of 2.7
- Instructor permission

Co-op Course Requirements

The Co-operative Education designation requires successful completion of the following courses:



Code	Title	Credits
Required		
COOP 1101	Introduction to Professional and Career Readiness	1
COOP 1150	Co-op Work Semester 1	9
COOP 2150	Co-op Work Semester 2	9
COOP 3150	Co-op Work Semester 3	9
Optional		
COOP 4150	Co-op Work Semester 4	

Total Credits **28**

Note: COOP courses must be completed in ascending numerical order. Contact the Co-op office for information about the possibility of part-time work terms. COOP courses may be used only to satisfy the Co-op designation and cannot be used to satisfy other curricular requirements of the program.

Additional Requirements

In addition to the requirements stated above, all Co-op students must satisfy the General Co-operative Education Requirements.

Credential Awarded

Upon successful completion of this program, students are eligible to receive a **Bachelor of Science (Honours), Major in Biology, Co-operative Education Option**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	Explain chemical, physical and mathematical concepts and relate them to biological structures, functions and processes.
2	Explain biological concepts and processes at the molecular and cellular levels.
3	Explain biological concepts and processes at the organismal, ecosystem, and biosphere levels.
4	Synthesize knowledge to compare key characteristics of the structure, function, development, and adaptations of organisms and acellular entities.
5	Apply the scientific method in designing and conducting experiments to investigate various natural phenomena.
6	Demonstrate competence in the safe practice and use of scientific instruments and equipment in both the laboratory and the field by following appropriate procedures.
7	Critically analyze problems, interpret data, and develop evidence-based solutions by applying knowledge and understanding of scientific principles.
8	Apply appropriate computational techniques, tools, models, and formulae to analyze and evaluate biological data.
9	Communicate and synthesize scientific information from a variety of sources in oral, visual, and written formats.
10	Evaluate the ethics of advances in biological knowledge, practice, understanding, and technology as they relate to contemporary world issues.
11	Develop teamwork and leadership skills through collaborative work in the laboratory, classroom, or field to address biological problems.

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No



Abstract

Degree or non-degree program

Degree

Academic level

Undergraduate

Faculty

Science

Department

Biology

Program name

Bachelor of Science (Honours), Major in Biology

Program Code

BSCH_ST_BIOL

Program description

The B.Sc. Major in Biology is a foundational degree program strongly grounded in scientific methodology and practical skills. The structure and breadth of courses offered is designed to equip graduates with a high level of competency in the knowledge, skills and experience necessary for competitive entry into the workforce in a wide range of fields. Graduates will also be well prepared for entry into a professional school or graduate studies program.

Central to this program is the provision of a lab intensive experience where students learn first-hand, the appropriate use of equipment and techniques to investigate living organisms and how they function. Upper level courses build upon the core knowledge and skills developed in 1st and 2nd Year, allowing the exploration of more advanced biological concepts and practical techniques. This culminates in a community focused research or directed studies project which requires students to apply the knowledge and skills they have learned.

Implementation date

September 2025

Proposed Program Overview

Program Structure & Delivery

Proposed credential(s) to be granted

Credential Level

Bachelor of Science (Honours)

Date for next review

September 2030

Will this program include a co-operative education option?

No



Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[BIOL Curriculum Map - approved by Senate 2024 01 2024.xlsx](#)

Key: 137

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.7

Meeting Date: April 8, 2026

Presenter(s): Layne Myhre

AGENDA TITLE: PROGRAM REVISION: BACHELOR OF SCIENCE, MAJOR IN HEALTH SCIENCE, BACHELOR OF SCIENCE (HONOURS), MAJOR IN HEALTH SCIENCE

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that the Senate approve the revisions to the following programs, effective September 1, 2026:

- Bachelor of Science, Major in Health Science
- Bachelor of Science (Honours), Major in Health Science

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

Arising from an approved Quality Assurance Plan October 19, 2022

Other issue This change was not specifically detailed in the QA plan approved on October 19, 2022; however, the QA plan described ongoing plans to update our Course Outlines to align with Program Learning Outcomes, and that process has necessitated minor program revisions to Honours Declaration, detailed below.

Context and Background

As part of our ongoing updates to course outlines to update Learning Outcomes to map with our program review (as indicated in our QA plan), we have aligned the Outlines of research courses that are taught together (BIOL 4199/4299, HSCI 4199/4299, BIOL 4990/4995, and HSCI 4990/4995). In doing so, we daylighted issues with declaration into our B.Sc. Honours programs (Major in Biology and Major in Health Science). Program requirements for Honours were previously vague and not well-described in the calendar, leading to student confusion. Further, the mechanism for entry was based on registration in the 4990 courses, rather than specific program declaration. This meant that students accepted for Honours did not get the designation on transcripts until after completing registration in September (so it would not show up on documents until January), causing problems for students applying to graduate programs.

In order to properly code students into Honours in a timely fashion, and to prevent confusion for students eligible to apply, and after several consultations with the Registrar on appropriate requirements for Honours, we have added specific entry requirements to both Honours programs. These requirements also bring our Honours programs more in line with other Honours programs at KPU and other institutions.

In addition, we have made an outstanding change in alignment with the BIOL October 2022 QA plan, in which we determined to explore improved first-year writing curriculum requirements. At the time, there was no practical mechanism to implement any change; now that there are specific WI-status English classes, we have replaced the previous 3 Credits in ENGL with 3 Credits from the WI-status list.

Key Messages

1. Course Outlines are now aligned with each other to reflect the single classroom environment; clearer learning outcomes are described in all 4 courses in each semester (HSCI 4199/4990 in Fall and HSCI 4299/4995 in Winter)
2. Honours Program changes now include specific entry requirements (Prior declaration into B.Sc. program, BIOL 3180 grade of B or higher, minimum CGPA of 3.2 or letter of explanation, approval of the department)
3. B.Sc. Major Program changes to allow HSCI 4990 and 4995 to be used in lieu of 4199 and 4299, respectively, which will permit students who are unable to maintain the honours eligibility to use those courses towards graduation with the Major.

Consultations

1. Several meetings were held with OREG throughout Fall 2025 (October and November) to consult on Honours program options and best language for these changes.

2. OPRO Curriculum review of proposed changes occurred March 16, 2026
3. Consultation with Vice-Chair of Senate March 20, 2026

Attachments

1. CIM Programs:
[Bachelor of Science, Major in Health Science](#)
[Bachelor of Science \(Honours\), Major in Health Science](#)
 2. Related courses in CIM Courses:
[HSCI 4199 Research Project 1](#)
[HSCI 4299 Research Project 2](#)
[HSCI 4990 Honours Thesis Project 1](#)
[HSCI 4995 Honours Thesis Project 2](#)
-

Submitted by

Layne Myhre, Faculty Instructor, Dept. of Biology and Health Sciences, Faculty of Science

Date submitted

March 24, 2026



BIOL AND HSCI HONOURS PROGRAM CHANGES

In Workflow

1. Biology Chair (jane.shin@kpu.ca;mikael.mokkonen@kpu.ca;kaylee.magee@kpu.ca)
2. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
3. Provost (meredith.laird@kpu.ca)
4. ORegCurrConsult (oregcurrconsult@kpu.ca)
5. ST Curriculum Committee (richard.popoff@kpu.ca)
6. ST Council (brett.favaro@kpu.ca; Allyson.Rozell@kpu.ca)
7. ST Dean (jeff.dyck@kpu.ca; brett.favaro@kpu.ca; Christina.Heinrick@kpu.ca)
8. Senate Standing Committee on Curriculum (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
9. Senate (Michelle.Molnar@kpu.ca; Catherine.Schwichtenberg@kpu.ca)
10. Calendar Editor (calendar.editor@kpu.ca)

Approval Path

1. 2026-01-22T01:55:59Z
Mika Mokkonen (mikael.mokkonen): Approved for Biology Chair
2. 2026-02-06T00:50:06Z
Brett Favaro (brett.favaro): Rollback to Biology Chair for ST Dean
3. 2026-02-18T01:07:34Z
Jane Shin (jane.shin): Approved for Biology Chair
4. 2026-02-23T21:58:21Z
Ashley Allison (ashley.allison): Approved for ST Dean
5. 2026-03-03T22:38:10Z
Meredith Laird (meredith.laird): Approved for Provost
6. 2026-03-03T22:52:41Z
Ashley Allison (ashley.allison): Approved for ORegCurrConsult
7. 2026-03-06T03:29:12Z
Richard Popoff (Richard.Popoff): Approved for ST Curriculum Committee
8. 2026-03-18T00:40:53Z
Allyson Rozell (Allyson.Rozell): Approved for ST Council
9. 2026-03-18T20:38:38Z
Brett Favaro (brett.favaro): Approved for ST Dean

History

1. Nov 28, 2023 by clmig-dbogness
2. Jul 9, 2024 by Ashley Allison (ashley.allison)
3. Mar 6, 2025 by Layne Myhre (Layne.Myhre)
4. May 12, 2025 by Ashley Allison (ashley.allison)

BIOL and HSCI Honours Program changes

Program

- BSCH_ST_HLTH: Bachelor of Science (Honours), Major in Health Science
- BSC_ST_HLTH: Bachelor of Science, Major in Health Science

Date Submitted: 2026-01-22T01:52:25Z

Viewing: BSC_ST_HLTH : Bachelor of Science, Major in Health Science

Last approved: Mon, 12 May 2025 21:33:58 GMT

Last edit: 2026-03-30T21:41:59Z

Changes proposed by: Ashley Allison

Reviewer comments

Brett Favaro (brett.favaro) (Fri, 06 Feb 2026 00:50:06 GMT): Rollback: Per discussion at cur-comm, minor revisions will be made by Layne before resubmission



Virginia Vandenberg (virginia.vandenberg) (Sat, 28 Feb 2026 00:32:47 GMT): Associated course revisions: HSCI 4199, 4299, 4990, 4995

Virginia Vandenberg (virginia.vandenberg) (Mon, 30 Mar 2026 21:42:11 GMT): program review curriculum map attached to proposal at Senate office request

Overview

Calendar year edition

2026-2027 ~~2025-2026~~

Considerations

Parameter	Notes
1	<p><u>Clarification from proponent: The rationale is mainly to more clearly delineate the Honours designation from the regular Major degrees; our previous program description only said that a "GPA of 3.0" maybe required, without clearly stating which GPA is referred to (CGPA, program GPA, etc.). We also had no differences in curriculum between the Honours and Major beyond the mandated research courses (4990/4995). There is an expectation in the sector that an Honour's degree includes the writing of a thesis, but also that a certain academic standard be involved. After consulting with OREG and referencing other Honour's programs at KPU and elsewhere, we determined that at least the GPA requirement should be more comparable. Increasing to a CGPA of 3.2, with specific grade standards for completion of the thesis, is more in line with other programs. Other institutions often include a formal committee defense requirement, but that is not easy to arrange; this is a compromise that increases the academic rigour without adding costs or additional Faculty time. The changes to the Major degrees is just to ensure that students who don't meet the Honours grade requirements can still use the 4990/4995 courses for graduation.</u></p>

Overview of proposed changes

Proposed Changes	Rationale	
1	<p>Permit the Honours courses HSCI 4990 and HSCI 4995 to substitute for HSCI 4199 and HSCI 4299, respectively.</p>	<p>To enable students to apply Honours credit toward the appropriate Research Project course and, if necessary, complete the credential without the Honours designation.</p>

Requirements

Admission Requirements

The Faculty's Admission Requirements, which consist of KPU's undergraduate English Proficiency Requirement (<https://calendar.kpu.ca/admissions/english-proficiency-requirements/>), apply to this program.

Declaration Requirements

Students intending to graduate with this Faculty of Science degree must declare the credential by the time they complete 60 credits of undergraduate coursework. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University
- Completion of a minimum of 21 credits of undergraduate coursework, including the following:
 - 3 credits of ENGL at the 1100 level or higher
 - BIOL 1110 with a minimum grade of "C"
 - HSCI 1115 with a minimum grade of "C"

Curricular Requirements

All students must meet the following minimum requirements:

- In addition to ENGL 1100, complete 3 credits from courses designated as Writing Intensive.
- 120 credits from courses at the 1100 level or higher.
- 45 credits from courses at the 3000 level or higher, including 9 credits at the 4000 level.
- 18 credits of breadth electives including at least 3 credits from a course at the 3000 level or higher. These must include:
 - at least 12 credits from courses that are offered outside the Faculty of Science; and
 - up to 6 credits from from courses offered within the Faculty of Science other than BIOL, CHEM, MATH, and PHYS.
- Cumulative GPA of 2.0 or higher.
- At least 50% of all courses for the BSc, and at least 66% of upper-level courses for the BSc, must be completed at KPU.

The Health Science Major requires the completion of a minimum of 124 credits, including the following specific course requirements.

Year 1		Credits
BIOL 1110	Introductory Biology I	4
BIOL 1210	Introductory Biology II	4
CHEM 1110	The Structure of Matter Revised Course	4
CHEM 1210	Chemical Energetics and Dynamics Revised Course	4
ENGL 1100	Introduction to University Writing	3
HSCI 1115	Introduction to Health Science	3
HSCI 2220	Medical Terminology	3
MATH 1120 or MATH 1130	Differential Calculus or Calculus for Life Sciences I	3
MATH 1230	Calculus for Life Sciences II	3
Select one of the following:		3
INDG 1100	Introduction to Indigenous Studies	
MATH 1135	Problems and Concepts	
PHIL 1145	Critical Thinking	
PHIL 1155	Introduction to Scientific Reasoning	
SOCI 1125	Introduction to Society: Processes and Structures	
Credits		34
Year 2		
BIOL 2320	Genetics	4
BIOL 2321	Cell Biology	4
BIOL 2421	Cellular Biochemistry	3
CHEM 2320	Organic Chemistry I Revised Course	4
CHEM 2420	Organic Chemistry II Revised Course	4
PHYS 1101	Physics for Life Sciences I	4
SOCI 2280	Sociology of Health, Disability, and Society	3
Elective	At the 1100 level or higher	3
Select one of the following:		3-4
ANTH 1100	Social & Cultural Anthropology	
ENVI 2305	Environmental Toxicology Revised Course	
PSYC 1100	Introduction to Psychology: Basic Processes	
PHYS 1102	Physics for Life Sciences II	
PHIL 1145	Critical Thinking	
Credits		32-33
Year 3		
BIOL 2330	Microbiology	4
BIOL 3130	Foundations of Human Anatomy & Physiology	4
BIOL 3180	Life Science Research Methods	3
BIOL 3321	Advanced Cell and Molecular Biology	4
BIOL 4230	Human Gastrointestinal, Excretory, and Reproductive Systems	3
PHIL 3010	Health Care Ethics	3
STAT 2335	Statistics for Life Sciences	3
Select two of the following:		6-7
BIOL 3320	Molecular Genetics	
HSCI 3110	Applications of Health Science	
HSCI 3215	Complementary Medicine	
HSCI 3225	Nutrition	
HSCI 4130	Pharmacology	
Credits		30-31
Year 4		
BIOL 3421	Molecular Biochemistry	3
BIOL 4130	The Human Cardiovascular, Respiratory and Nervous Systems	4
HSCI 4380	Critical Evaluation	3

Select two of the following:

6-8

BIOL 3330	Microbiology II
BIOL 4320	Human Genetics
BIOL 4245	Developmental Biology
BIOL 4255	Bioinformatics
HSCI 4170	Human Pathology

Select two of the following:

6

HSCI 4110	Health Program Planning and Evaluation
HSCI 4140	Health and Aging
HSCI 4245	Populations and Policy
HSCI 4250	Health Business

Select one of the following groups:

6

Group A

HSCI 4950	Senior Seminar
Elective at the 3000 level or higher	

Group B

HSCI 4199	Research Project 1 Revised Course ¹
HSCI 4299	Research Project 2 Revised Course ²

Credits	28-30
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Total Credits	124-128
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¹ HSCI 4990 may be used as a substitute for HSCI 4199.

² HSCI 4995 may be used as a substitute for HSCI 4299.

Credential Awarded

Upon successful completion of the major program, students are eligible to receive a **Bachelor of Science, Major in Health Science**.

Co-op Requirements

Co-operative Education Option

The Bachelor of Science, Major in Health Science degree is offered with a Cooperative Education Option. Co-operative Education gives a student the opportunity to apply the skills gained during academic study in paid, practical work experience semesters. Degree students can complete a minimum of three work terms while completing their degree. Work terms generally occur full-time in separate 4 month work semesters. Work semesters alternate with academic study.

Students wishing to enter and participate in the Co-operative Education Option must meet the following requirements:

Declaration and Entrance Requirements

- Declaration into the Bachelor of Science, Major in Health Science program
- Declaration of the co-operative education option prior to completion of 90 credits for the Bachelor of Science, Major in Health Science program
- Minimum GPA of 2.7

Program Continuance Requirements

- Completion of COOP 1101 prior to completing 90 credits
- Minimum GPA of 2.7
- Instructor permission

Co-op Course Requirements

The Co-operative Education designation requires successful completion of the following courses:

Code	Title	Credits
Required		
COOP 1101	Introduction to Professional and Career Readiness	1
COOP 1150	Co-op Work Semester 1	9
COOP 2150	Co-op Work Semester 2	9
COOP 3150	Co-op Work Semester 3	9
Optional		
COOP 4150	Co-op Work Semester 4	
Total Credits		28



Note: COOP courses must be completed in ascending numerical order. Contact the Co-op office for information about the possibility of part-time work terms. COOP courses may be used only to satisfy the Co-op designation and cannot be used to satisfy other curricular requirements of the program.

Additional Requirements

In addition to the requirements stated above, all Co-op students must satisfy the General Co-operative Education Requirements (<https://calendar.kpu.ca/academic-regulations/co-operative-education/>).

Credential Awarded

Upon successful completion of this program with co-operative education, students are eligible to receive a **Bachelor of Science, Major in Health Science, Co-operative Education Option**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	<u>Examine fundamental biological concepts, processes, and systems of the human body, including the structure, function, and properties of the molecules of life, cells, and organ systems in relation to homeostasis and health.</u> <i>N/A</i>
2	<u>Examine fundamental concepts, processes, and systems of chemistry, including matter and chemical bonding; quantities in chemical reactions; solutions and solubility; acids and bases; as well as nomenclature, structure, and properties of organic compounds in relation to health and the human body.</u>
3	<u>Examine fundamental concepts, processes, and systems of physics, including classical mechanics (Laws of Motion), electromagnetism, relativity, and thermodynamics.</u>
4	<u>Solve numeric problems and interpret data related to health sciences using mathematical concepts, including algebra, basic probability, descriptive statistics, inferential statistics, and multiple variable analyses.</u>
5	<u>Apply health science language and terminology appropriately to communicate clearly, concisely, and correctly in written, spoken, and visual forms</u>
6	<u>Investigate health sciences and science-related questions, problems, and evidence using the scientific method and evidence-based approaches.</u>
7	<u>Develop an awareness of the different components of health science and their inter-relationships.</u>
8	<u>Develop a critical understanding of health issues.</u>
9	<u>Assess how health information is presented, interpreted, and applied.</u>
10	<u>Develop critical knowledge of health information and technologies.</u>
11	<u>Develop facility with the research techniques appropriate to effectively explore health information.</u>
12	<u>Internalize an efficient approach to being well-informed about health information and issues.</u>
13	<u>Critically analyze health issues by applying current knowledge and perspectives to a range of health questions.</u>
14	<u>Execute capacity to foster human health based on an understanding of current knowledge, techniques, and innovative thinking</u>
15	<u>Apply understanding of health issues by seeking solutions through avenues such as research, experiential engagement, and innovation.</u>
16	<u>Prepare a personal strategy and plan for academic, career, and professional development in health science or related field.</u>

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

**Change in support requirements?**

No

Abstract**Degree or non-degree program**

Degree

Academic level

Undergraduate

Faculty

Science

Department

Biology

Program name

Bachelor of Science, Major in Health Science

Program Code

BSC_ST_HLTH

Program description

The B.Sc. in Health Science program is designed to prepare students for employment in health policy, research, management, sales, and education. The program also prepares students for entry into health professional programs and post graduate degrees in the sciences.

The objectives of the degree program are to provide graduates with:

Foundational knowledge in the basic sciences of chemistry, physics, mathematics, and biology, along with strong writing and critical thinking skills.

Skills to apply scientific knowledge to clinical, public, and population health to understand current health issues and the common approaches used to advance health and wellness.

Educational prerequisites necessary for entry into health professional programs (e.g., medicine, dentistry, pharmacy, etc.) or post-graduate studies in the sciences.

Competitive advantage to graduates choosing to pursue alternate career paths or post-graduate studies in complementary medicine (e.g., naturopathy, traditional Asian medicine).

The B.Sc. in Health Science degree is designed around required basic science and health science courses, that are complemented by health science and open electives to provide graduates with a solid science foundation, along with critical health research, communication, and management skills for future success.

Implementation date

September 2025

Proposed Program Overview**Program Structure & Delivery****Proposed credential(s) to be granted****Credential Level**

Bachelor of Science

Date for next review

September 2030

Will this program include a co-operative education option?

Yes



Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[HSCI Curriculum Map - January 2025.xlsx](#)

Key: 134



History

1. Nov 28, 2023 by clmig-dbogges
2. Jul 9, 2024 by Ashley Allison (ashley.allison)
3. Mar 6, 2025 by Layne Myhre (Layne.Myhre)
4. May 12, 2025 by Ashley Allison (ashley.allison)

Viewing: BSCH_ST_HLTH : Bachelor of Science (Honours), Major in Health Science

Last approved: Mon, 12 May 2025 21:35:41 GMT

Last edit: 2026-03-30T21:41:26Z

Changes proposed by: Ashley Allison

Overview

Calendar year edition

[2026-2027](#) ~~2025-2026~~

Considerations

Parameter	Notes
1	<p><u>Clarification from proponent: The rationale is mainly to more clearly delineate the Honours designation from the regular Major degrees; our previous program description only said that a "GPA of 3.0" maybe required, without clearly stating which GPA is referred to (CGPA, program GPA, etc.). We also had no differences in curriculum between the Honours and Major beyond the mandated research courses (4990/4995). There is an expectation in the sector that an Honour's degree includes the writing of a thesis, but also that a certain academic standard be involved. After consulting with OREG and referencing other Honour's programs at KPU and elsewhere, we determined that at least the GPA requirement should be more comparable. Increasing to a CGPA of 3.2, with specific grade standards for completion of the thesis, is more in line with other programs. Other institutions often include a formal committee defense requirement, but that is not easy to arrange; this is a compromise that increases the academic rigour without adding costs or additional Faculty time. The changes to the Major degrees is just to ensure that students who don't meet the Honours grade requirements can still use the 4990/4995 courses for graduation.</u></p>

Overview of proposed changes

Proposed Changes	Rationale	
1	<p>Declaration Requirements changed to Honours Eligibility and simplified requirements. Changed CGPA 3.0 to 3.2, which must be maintained to be eligible to graduate with Honours.</p>	<p>Many requirements are already satisfied upon declaring into the BSc program, therefore the requirements have been simplified to a CGPA of 3.2 and submission of an application package for review by the Department of Biological and Health Sciences.</p>
2	<p>Addition of minimum grade of "B" in HSCI 4995.</p>	<p>A minimum grade of "B" is required. Students who earn a lower grade may repeat the course to qualify for graduation with honours (minimum CGPA 3.2). Students who do not repeat the course may apply the credit toward HSCI 4299 and complete the credential without honours.</p>



Requirements

Admission Requirements

The Faculty's Admission Requirements, which consist of KPU's undergraduate English Proficiency Requirement (<https://calendar.kpu.ca/admissions/english-proficiency-requirements/>), apply to this program.

Honours Eligibility

Eligibility for the Bachelor of Science (Honours), Major in Health Science program is restricted to students declared in the BSc program and requires permission of the department. To apply, students must have completed a minimum of 75 credits at the 1100 level or higher, including BIOL 3180 with a minimum grade of B, and 6 program credits at the 3000 level or higher. Candidates should hold a CGPA of 3.2 (or give a detailed justification for lower CGPA), and submit an application package to be reviewed by the Department of Biological and Health Sciences.

Declaration Requirements

Students intending to graduate with this Faculty of Science degree must declare the credential by the time they complete 60 credits of undergraduate coursework. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University
- Completion of a minimum of 21 credits of undergraduate coursework, including the following:
 - 3 credits of ENGL at the 1100 level or higher
 - BIOL 1110 with a minimum grade of "C"
 - HSCI 1115 with a minimum grade of "C"

Curricular Requirements

All students must meet the following minimum requirements:

- In addition to ENGL 1100, complete 3 credits from courses designated as Writing Intensive.
- 120 credits from courses at the 1100 level or higher.
- 45 credits from courses at the 3000 level or higher, including 9 credits at the 4000 level.
- 18 credits of breadth electives including at least 3 credits from a course at the 3000 level or higher. These must include:
 - at least 12 credits from courses that are offered outside the Faculty of Science; and
 - up to 6 credits from courses offered within the Faculty of Science other than BIOL, CHEM, MATH, and PHYS.
- Cumulative GPA of 3.2 ~~2.0~~ or higher.
- At least 50% of all courses for the BSc, and at least 66% of upper-level courses for the BSc, must be completed at KPU.

~~Enrolment in the Health Science Honours program requires the permission of the Biology Department. In order to be considered for the Honours program, students must typically have a record of exceptional academic performance, including a minimum Grade Point Average of 3.0~~

The Bachelor of Science (Honours), Major in Health Science, requires the completion of a minimum of 126 credits, including the following specific course requirements.

Year 1		Credits
BIOL 1110	Introductory Biology I	4
BIOL 1210	Introductory Biology II	4
CHEM 1110	The Structure of Matter Revised Course	4
CHEM 1210	Chemical Energetics and Dynamics Revised Course	4
ENGL 1100	Introduction to University Writing	3
HSCI 1115	Introduction to Health Science	3
HSCI 2220	Medical Terminology	3
MATH 1120 or MATH 1130	Differential Calculus or Calculus for Life Sciences I	3
MATH 1230	Calculus for Life Sciences II	3
Select one of the following:		3
INDG 1100	Introduction to Indigenous Studies	
MATH 1135	Problems and Concepts	
PHIL 1145	Critical Thinking	
PHIL 1155	Introduction to Scientific Reasoning	
SOCI 1125	Introduction to Society: Processes and Structures	
Credits		34
Year 2		
BIOL 2320	Genetics	4
BIOL 2321	Cell Biology	4
BIOL 2421	Cellular Biochemistry	3
CHEM 2320	Organic Chemistry I Revised Course	4

CHEM 2420	Organic Chemistry II Revised Course	4
PHYS 1101	Physics for Life Sciences I	4
SOCI 2280	Sociology of Health, Disability, and Society	3
Elective	At the 1100 level or higher	3
Select one of the following:		3-4
ANTH 1100	Social & Cultural Anthropology	
ENVI 2305	Environmental Toxicology Revised Course	
PSYC 1100	Introduction to Psychology: Basic Processes	
PHYS 1102	Physics for Life Sciences II	
PHIL 1145	Critical Thinking	
Credits		32-33
Year 3		
BIOL 2330	Microbiology	4
BIOL 3130	Foundations of Human Anatomy & Physiology	4
BIOL 3180	Life Science Research Methods	3
BIOL 3321	Advanced Cell and Molecular Biology	4
BIOL 4230	Human Gastrointestinal, Excretory, and Reproductive Systems	3
PHIL 3010	Health Care Ethics	3
STAT 2335	Statistics for Life Sciences	3
Select two of the following:		6-7
BIOL 3320	Molecular Genetics	
HSCI 3110	Applications of Health Science	
HSCI 3215	Complementary Medicine	
HSCI 3225	Nutrition	
HSCI 4130	Pharmacology	
Credits		30-31
Year 4		
BIOL 3421	Molecular Biochemistry	3
BIOL 4130	The Human Cardiovascular, Respiratory and Nervous Systems	4
HSCI 4380	Critical Evaluation	3
HSCI 4990	Honours Thesis Project I Revised Course	4
HSCI 4995	Honours Thesis Project 2 Revised Course ¹	4
Select two of the following:		6-8
BIOL 3330	Microbiology II	
BIOL 4320	Human Genetics	
BIOL 4245	Developmental Biology	
BIOL 4255	Bioinformatics	
HSCI 4170	Human Pathology	
Select two of the following:		6
HSCI 4110	Health Program Planning and Evaluation	
HSCI 4140	Health and Aging	
HSCI 4245	Populations and Policy	
HSCI 4250	Health Business	
Credits		30-32
Total Credits		126-130

¹ A minimum grade of "B" is required. Students who earn a lower grade may repeat the course to qualify for graduation with honours (minimum CGPA 3.2). Students who do not repeat the course may apply the credit toward HSCI 4299 and complete the credential without honours.

Credential Awarded

Upon successful completion of the Honours program, students are eligible to receive a **Bachelor of Science (Honours), Major in Health Science**.

Co-op Requirements

Co-operative Education Option

The Bachelor of Science (Honours), Major in Health Science degree is offered with a Co-operative Education Option. Co-operative Education gives a student the opportunity to apply the skills gained during academic study in paid, practical work experience semesters. Degree students can complete a minimum of three work terms while completing their degree. Work terms generally occur full-time in separate 4 month work semesters. Work semesters alternate with academic study.

Students wishing to enter and participate in the Co-operative Education Option must meet the following requirements:

Declaration and Entrance Requirements

- Declaration into the Bachelor of Science, Major in Health Science program
- Declaration of the co-operative education option prior to completion of 90 credits for the Bachelor of Science, Major in Health Science program
- Minimum GPA of 2.7

Program Continuance Requirements

- Completion of COOP 1101 prior to completing 90 credits
- Minimum GPA of 2.7
- Instructor permission

Co-op Course Requirements

The Co-operative Education designation requires successful completion of the following courses:

Code	Title	Credits
Required		
COOP 1101	Introduction to Professional and Career Readiness	1
COOP 1150	Co-op Work Semester 1	9
COOP 2150	Co-op Work Semester 2	9
COOP 3150	Co-op Work Semester 3	9
Optional		
COOP 4150	Co-op Work Semester 4	
Total Credits		28

Note: COOP courses must be completed in ascending numerical order. Contact the Co-op office for information about the possibility of part-time work terms. COOP courses may be used only to satisfy the Co-op designation and cannot be used to satisfy other curricular requirements of the program.

Additional Requirements

In addition to the requirements stated above, all Co-op students must satisfy the General Co-operative Education Requirements (<https://calendar.kpu.ca/academic-regulations/co-operative-education/>).

Credential Awarded

Upon successful completion of this program with co-operative education, students are eligible to receive a **Bachelor of Science (Honours), Major in Health Science, Co-operative Education Option**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	<u>Examine fundamental biological concepts, processes, and systems of the human body, including the structure, function, and properties of the molecules of life, cells, and organ systems in relation to homeostasis and health.</u> N/A
2	<u>Examine fundamental concepts, processes, and systems of chemistry, including matter and chemical bonding; quantities in chemical reactions; solutions and solubility; acids and bases; as well as nomenclature, structure, and properties of organic compounds in relation to health and the human body.</u>
3	<u>Examine fundamental concepts, processes, and systems of physics, including classical mechanics (Laws of Motion), electromagnetism, relativity, and thermodynamics.</u>
4	<u>Solve numeric problems and interpret data related to health sciences using mathematical concepts, including algebra, basic probability, descriptive statistics, inferential statistics, and multiple variable analyses.</u>
5	<u>Apply health science language and terminology appropriately to communicate clearly, concisely, and correctly in written, spoken, and visual forms</u>
6	<u>Investigate health sciences and science-related questions, problems, and evidence using the scientific method and evidence-based approaches.</u>
7	<u>Develop an awareness of the different components of health science and their inter-relationships.</u>
8	<u>Develop a critical understanding of health issues.</u>
9	<u>Assess how health information is presented, interpreted, and applied.</u>
10	<u>Develop critical knowledge of health information and technologies.</u>
11	<u>Develop facility with the research techniques appropriate to effectively explore health information.</u>

<u>12</u>	<u>Internalize an efficient approach to being well-informed about health information and issues.</u>
<u>13</u>	<u>Critically analyze health issues by applying current knowledge and perspectives to a range of health questions.</u>
<u>14</u>	<u>Execute capacity to foster human health based on an understanding of current knowledge, techniques, and innovative thinking</u>
<u>15</u>	<u>Apply understanding of health issues by seeking solutions through avenues such as research, experiential engagement, and innovation.</u>
<u>16</u>	<u>Prepare a personal strategy and plan for academic, career, and professional development in health science or related field.</u>

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Abstract

Degree or non-degree program

Degree

Academic level

Undergraduate

Faculty

Science

Department

Biology

Program name

Bachelor of Science (Honours), Major in Health Science

Program Code

BSCH_ST_HLTH

Program description

The B.Sc. in Health Science program is designed to prepare students for employment in health policy, research, management, sales, and education. The program also prepares students for entry into health professional programs and post graduate degrees in the sciences.

The objectives of the degree program are to provide graduates with:

Foundational knowledge in the basic sciences of chemistry, physics, mathematics, and biology, along with strong writing and critical thinking skills.

Skills to apply scientific knowledge to clinical, public, and population health to understand current health issues and the common approaches used to advance health and wellness.

Educational prerequisites necessary for entry into health professional programs (e.g., medicine, dentistry, pharmacy, etc.) or post-graduate studies in the sciences.



Competitive advantage to graduates choosing to pursue alternate career paths or post-graduate studies in complementary medicine (e.g., naturopathy, traditional Asian medicine).

The B.Sc. in Health Science degree is designed around required basic science and health science courses, that are complemented by health science and open electives to provide graduates with a solid science foundation, along with critical health research, communication, and management skills for future success.

Implementation date

September 2025

Proposed Program Overview

Program Structure & Delivery

Proposed credential(s) to be granted

Credential Level

Bachelor of Science (Honours)

Date for next review

September 2030

Will this program include a co-operative education option?

Yes

Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[HSCI Honours Curriculum Map - January 2025.xlsx](#)

Key: 138

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.8

Meeting Date: April 8, 2026

Presenter(s): Allyson Rozell

AGENDA TITLE: PROGRAM REVISION: ASSOCIATE OF SCIENCE IN MATHEMATICS

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Associate of Science in Mathematics, effective September 1, 2026.

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026.

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan Indication date of approval
- Other issue Various updates needed to reflect changes including new STAT prefix, changing course offerings, and updating for clarity.

Key Messages

1. Inclusion of courses that align with the requirements of an associate degree and the program learning outcomes: HSCI 1115, HSCI 1220, INDG 1492, MATH 1135, PHYS 1400, PHYS 1500, STAT 1170, STAT 3315
2. Removal of discontinued courses: GEOG 2310, 2320, 2390
3. Removal of CPSC 1100, as it no longer supports the program learning outcomes.

4. Program Learning Outcomes added.

Consultations

1. Chairs of the Physics, Biology, Health Science and Geography departments

Attachments

1. [Associate of Science in Mathematics](#)
-

Submitted by

Allyson Rozell, Chair of Math Department

Date submitted

March 24, 2026



Date Submitted: 2026-03-09T21:08:06Z

Viewing: AS_ST_MATH : Associate of Science in Mathematics

Last approved: Mon, 12 May 2025 21:20:32 GMT

Last edit: 2026-03-26T17:09:45Z

Changes proposed by: Virginia Vandenberg

Overview

Status

Revision

Program proposal contact(s)

Allyson Rozell

Calendar year edition

[2026-2027](#) [2025-2026](#)

Overview of proposed changes

	Proposed Changes	Rationale
1	Add HSCI 1115, HSCI 1220, INDG 1492, MATH 1135, PHYS 1400, PHYS 1500, STAT 1170, STAT 3315.	New courses since last update.
2	Remove GEOG 2310, GEOG 2320, GEOG 2390.	Courses discontinued.
3	Remove CPSC 1100.	Does not support program outcomes.
4	Program learning outcomes added.	Completeness

Requirements

Admission Requirements

The Faculty's Admission Requirements, which consist of KPU's undergraduate English Proficiency Requirement (<https://calendar.kpu.ca/admissions/english-proficiency-requirements/>), apply to this program.

Curricular Requirements

Within the framework of the Associate of Science degree (<https://calendar.kpu.ca/programs-az/science/as-degree-framework/>), students must complete at least 60 credits with a minimum overall CGPA GPA of 2.0: **2.0 and a minimum passing grade (D or better) in each course:**

Code	Title	Credits
English Requirements		
ENGL 1100	Introduction to University Writing	3
Select one additional first-year ENGL course		3
First Year Science Requirements		
CPSC 1103	Principles of Program Structure and Design I	3
Select one of the following:		3
MATH 1120	Differential Calculus	
MATH 1130	Calculus for Life Sciences I	
MATH 1140	Calculus I (Business Applications)	
MATH 1220	Integral Calculus	3
or MATH 1230	Calculus for Life Sciences II	
PHYS 1101	Physics for Life Sciences I	4
or PHYS 1120	Physics for Physical and Applied Sciences I	

Select four more first-year science courses of the following:

12-16

ASTR 1120	Introduction to Astrophysics	
BIOL 1110	Introductory Biology I	
BIOL 1210	Introductory Biology II	
CHEM 1105	Introductory Chemistry Revised Course	
CHEM 1110	The Structure of Matter Revised Course	
CHEM 1210	Chemical Energetics and Dynamics Revised Course	
CPSC 1100	Introduction to Computer Literacy	
CPSC 1204	Principles of Program Structure and Design II ²	
GEOG 1102	Our Dynamic Earth Revised Course	
<u>HSCI 1115</u>	<u>Introduction to Health Science</u>	
<u>HSCI 1220</u>	<u>Health Science Writing</u>	
<u>INDG 1492</u>	<u>Indigenous Perspectives in Biology</u>	
MATH 1112	Pre-Calculus	
<u>MATH 1135</u>	<u>Problems and Concepts</u> ²	
MATH 1152	Matrix Algebra for Engineers	
MATH 2721	Complex Numbers and Linear Algebra	
PHYS 1100	Introductory Physics	
PHYS 1102	Physics for Life Sciences II	
or PHYS 1220	Physics for Physical and Applied Sciences II	
PHYS 1170	Mechanics I	
<u>PHYS 1400</u>	<u>Energy, Environment, Physics</u>	
<u>PHYS 1500</u>	<u>Science with AI: Methods and Applications</u>	
STAT 1115	Statistics I ¹	
<u>STAT 1170</u>	<u>Introduction to Data Science: An AI Approach</u> ²	
Second Year Science Requirements		
MATH 2321	Multivariate Calculus (Calculus III)	3
or MATH 2821	Multivariate and Vector Calculus	
Select three second-year Math courses of the following:		9-10
Select three second-year MATH or STAT courses of the following:		9
<u>MATH 2232</u>	<u>Linear Algebra</u> ²	
MATH 2321	Multivariate Calculus (Calculus III)	
MATH 2331	Introduction to Analysis	
MATH 2410	Discrete Mathematics ²	
MATH 3322	Vector Calculus (Calculus IV)	
MATH 3421	Ordinary Differential Equations	
STAT 2315	Probability and Statistics ²	
STAT 2335	Statistics for Life Sciences ¹	
or STAT 2342	Introduction to Statistics for Business	
<u>STAT 3315</u>	<u>Applied Inferential Statistics</u>	
Select two more second-year science courses of the following:		6-8
BIOL 2320	Genetics	
BIOL 2321	Cell Biology	
BIOL 2322	Ecology	
BIOL 2330	Microbiology	
BIOL 2421	Cellular Biochemistry	
CHEM 2311	Physical Chemistry for Life Sciences Revised Course	
or CHEM 3310	Physical Chemistry Revised Course	



CHEM 2315	Analytical Chemistry Revised Course	
CHEM 2320	Organic Chemistry I Revised Course	
CHEM 2420	Organic Chemistry II Revised Course	
CPSC 2302	Data Structures and Algorithms	
ENVI 2305	Environmental Toxicology Revised Course	
GEOG 2310	Climatology Discontinued Course	
GEOG 2320	Geomorphology Discontinued Course	
GEOG 2390	Quantitative Methods in Geography Discontinued Course	
GEOG 2400	Mapping and Geographic Information Systems Revised Course	
PHYS 2010	Modern Physics	
PHYS 2030	Classical Mechanics	
PHYS 2040	Thermal Physics	
PHYS 2330	Intermediate Mechanics	
PHYS 2420	Electricity and Magnetism	
Additional Course Requirements		
Select any two courses in Arts, not counting English		6
Select any other two university-transferable courses		6
Total Credits		61-67

- ¹ Students will receive credit for only one of STAT 1115, STAT 2335, or STAT 2342 towards an Associate of Science in Mathematics.
- ² Students intending to pursue the Bachelor of Science in Mathematics should select courses including MATH 1135, MATH 2232, MATH 2410, STAT 1170, STAT 2315, and CPSC 1204.

Credential Awarded

Upon successful completion of this program, students are eligible to receive an **Associate of Science Degree in Mathematics**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	<u>Apply core concepts from calculus, algebra, and statistics to solve quantitative problems.</u> N/A
2	<u>Represent real-world and scientific problems using mathematical tools, such as equations, functions, graphs, and data.</u>
3	<u>Analyze and interpret mathematical and statistical results in context.</u>
4	<u>Explain and justify mathematical reasoning clearly, both orally and in writing.</u>
5	<u>Use appropriate technology and computational tools to explore problems and analyze data.</u>
6	<u>Demonstrate critical thinking and effective written communication appropriate to university-level study.</u>

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No



Abstract

Degree or non-degree program

Non-Degree

Academic level

Undergraduate

Faculty

Science

Department

Mathematics

Program name

Associate of Science in Mathematics

Program Code

AS_ST_MATH

Program description

The Associate Degree is designed to provide an educational experience that prepares students for work, citizenship and an enriched life as an educated person, and to lay a solid foundation for further study in the field of Mathematics.

Implementation date

September ~~2026~~ ~~2024~~

Proposed Program Overview

Program Structure & Delivery

Proposed credential(s) to be granted

Credential Level

Associate of Science

Date for next review

September ~~2031~~ ~~2029~~

Will this program include a co-operative education option?

No

Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Financial Assessment Background Questions

Funding

No Funding



Preferred campus delivery

[Surrey](#)

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[MATH Curriculum Map_Associate MATH_09 Mar 2026.xlsx](#)

Key: 128

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.9

Meeting Date: April 8, 2026

Presenter(s): Allyson Rozell

AGENDA TITLE: PROGRAM REVISION: MINOR IN MATHEMATICS

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Minor in Mathematics, effective September 1, 2026.

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026.

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan Indication date of approval
- Other issue Various updates needed to reflect changes including new STAT prefix, changing course offerings, and updating for clarity.

Key Messages

1. MATH 1135 Problems and Concepts added as requirement as it is a prerequisite for MATH 2232.
2. Revise required credit total to 12 for 3000 level or higher to account for the addition of MATH 1135.
3. STAT courses added as options.

4. Program Learning Outcomes added.

Consultations

1. Chairs of the Physics, Biology, Health Science and Geography departments

Attachments

1. CIM Programs
[Minor in Mathematics](#)
-

Submitted by

Allyson Rozell, Chair of Math Department

Date submitted

[March 24, 2026](#)



History

1. Nov 28, 2023 by clmig-dboggess
2. Jul 10, 2024 by Ashley Allison (ashley.allison)
3. May 12, 2025 by Ashley Allison (ashley.allison)

Viewing: MNR_ST_MATH : Minor in Mathematics

Last approved: Mon, 12 May 2025 21:26:47 GMT

Last edit: 2026-03-10T00:33:36Z

Changes proposed by: Allyson Rozell

Overview

Program proposal contact(s)

Allyson Rozell

Calendar year edition

2026-2027 ~~2025-2026~~

Overview of proposed changes

	Proposed Changes	Rationale
1	Add MATH 1135 Problems and Concepts as requirement.	Required prerequisite for MATH 2232.
2	Revise required credit total to 12 for 3000 level or higher.	To account for change #1.
3	Add STAT as an option for 3000 level or higher courses.	STAT is a recently added designation.
4	Program learning outcomes added	Completeness.

Requirements

Admission Requirements

Students pursuing a Minor in Mathematics must be admitted to KPU for undergraduate studies.

Declaration Requirements

Students pursuing this minor must declare their intention prior to graduation. A minor may only be declared as part of a bachelor's degree.

Curricular Requirements

Students are required to complete 30 credits of mathematics courses, as follows:

Code	Title	Credits
Select one of the following: ¹		3
MATH 1120	Differential Calculus	
MATH 1130	Calculus for Life Sciences I	
MATH 1140	Calculus I (Business Applications)	
Select one of the following: ¹		3
MATH 1220	Integral Calculus	
MATH 1230	Calculus for Life Sciences II	
Select one of the following: ¹		3
STAT 2315	Probability and Statistics	
STAT 2335	Statistics for Life Sciences	
STAT 2342	Introduction to Statistics for Business	
<u>MATH 1135</u>	<u>Problems and Concepts</u>	<u>3</u>
MATH 2232	Linear Algebra	3
MATH 2321	Multivariate Calculus (Calculus III)	3
Select 15 credits of courses in MATH at the 3000 level or higher		15
Select 12 credits of courses in MATH or STAT at the 3000 level or higher		12
Total Credits		30

¹ Credit will not be granted for more than one of the courses in each group.

Note: Students planning to enter an Education program at another institution are advised to check the requirements of that institution, as additional credits may be required.

Credential Awarded

Upon successful completion of the minor as part of a bachelor's degree program, transcripts will indicate a **Minor in Mathematics**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	<u>Apply foundational mathematical concepts and techniques from calculus, algebra, and/or statistics to solve problems in academic, professional, and real-world contexts.</u> N/A
2	<u>Translate problems into mathematical representations, including equations, functions, graphs, and data-based models.</u>
3	<u>Analyze and interpret quantitative information, including symbolic expressions, graphical representations, and statistical results.</u>
4	<u>Use logical reasoning and mathematical argumentation to justify solutions and communicate conclusions clearly and precisely.</u>
5	<u>Employ appropriate mathematical tools and technology (e.g., computational software, graphing tools, statistical packages) to explore and solve problems.</u>
6	<u>Demonstrate quantitative literacy by evaluating assumptions, recognizing limitations of models, and interpreting results within context.</u>

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Abstract

Degree or non-degree program

Non-Degree

Academic level

Undergraduate

Faculty

Science

Department

Mathematics

Program name

Minor in Mathematics

**Program Code**

MNR_ST_MATH

Program description

The study of mathematics requires a high degree of technical skill in specific areas, but, often more importantly, also demonstrates a well developed sense of logical reasoning which can be applied to many different areas. The Minor in Mathematics allows a student the option of completing a Bachelor's degree in another subject area and still demonstrating the depth of their abstract reasoning and numerical skills by adding on a designation in mathematics. This will be helpful for any students who are planning professional careers for which a sound foundation in formal or mathematical reasoning is required as well as for students with a specific interest in mathematics.

The Minor in Mathematics, used as part of the Bachelor of Arts (Double Minor) with a second teachable minor, is well suited for students who plan to enter a post-baccalaureate education program, with mathematics as one of their teachable subjects.

Implementation dateSeptember ~~2026~~ 2024**Proposed Program Overview****Program Structure & Delivery****Date for next review**September ~~2031~~ 2029**Will this program include a co-operative education option?**

No

Discipline and Program Description**Course Delivery Options****Program Delivery Options****Information for Competitive Assessment****Information for Student Demand Assessment****Information for Labour Market Assessment****Financial Assessment Background Questions****Funding**[No Funding](#)**Preferred campus delivery**[Surrey](#)**Supplementary Documents****Curriculum Map and Program Learning Outcomes**[MATH Curriculum Map_Minor MATH_09 Mar 2026.xlsx](#)

Key: 151

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.10

Meeting Date: April 8, 2026

Presenter(s): Allyson Rozell

AGENDA TITLE: PROGRAM REVISION: BACHELOR OF SCIENCE, MAJOR IN APPLICATIONS OF MATHEMATICS

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Bachelor of Science, Major in Applications of Mathematics program, effective September 1, 2026.

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026.

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan Indication date of approval
- Other issue Various updates needed to reflect changes including new STAT prefix, changing course offerings, and updating for clarity.

Key Messages

1. STAT 1170 has been added as a requirement for all concentrations. Also requires adjusting the number of general elective requirements (down by 3) for each concentration. This course

equips students with data science and AI skills aligned with current applied mathematics practice.

2. STAT courses added as equivalents to MATH when referring to collective offerings.
3. Updated program learning outcomes for completion and clarity.
4. Reduced excessive general electives.

Consultations

1. Mathematics Department
2. Curriculum Support Unit, Office of the Provost

Attachments

1. CIM Programs
[Bachelor of Science, Major in Applications of Mathematics](#)
-

Submitted by

Allyson Rozell, Chair of Math Department

Date submitted

March 24, 2026



History

1. Nov 28, 2023 by clmig-dboggess
2. Jul 9, 2024 by Ashley Allison (ashley.allison)
3. Sep 6, 2024 by Ashley Allison (ashley.allison)
4. May 12, 2025 by Ashley Allison (ashley.allison)

Viewing: BSC_ST_MATA : Bachelor of Science, Major in Applications of Mathematics

Last approved: Mon, 12 May 2025 21:22:46 GMT

Last edit: 2026-03-24T22:53:07Z

Changes proposed by: Virginia Vandenberg

Determination of new degree?

No

Overview

Program proposal contact(s)

Allyson Rozell

Calendar year edition

2026-2027 ~~2025-2026~~

Overview of proposed changes

	Proposed Changes	Rationale
1	Add STAT 1170 as requirement for all concentrations. Also requires adjusting the number of general elective requirements (down by 3) for each concentration	This course equips students with data science and AI skills aligned with current applied mathematics practice.
2	Add STAT as alternate to MATH when referring to collective offerings.	Updated to accommodate new prefix.
3	Add in updated program learning outcomes.	For completion and more clarity.
4	Reduced excessive general electives: - reduced elective credits from courses at the 1100 level or higher in Biomathematics concentration from 15 to 9 credits - reduced elective credits from courses at the 1100 level or higher in Mathematics Education concentration from 24 to 21 credits	To allow students to finish more quickly.

Requirements

Admission Requirements

Students pursuing a Major in Applications of Mathematics must be admitted to the Faculty of Science (<https://calendar.kpu.ca/programs-az/science/admission-requirements/>).

Declaration Requirements

Students intending to graduate with this Faculty of Science degree must declare the credential by the time they complete 60 credits of undergraduate coursework. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University
- Completion of a minimum of 24 credits of undergraduate coursework
- Completion of MATH 1220 with a minimum grade of "C" or MATH 1230 with a minimum grade of "C+"

Curricular Requirements

All students must meet the following minimum requirements:

- 120 credits from courses at the 1100 level or higher.
- 45 credits from a minimum of 15 courses at the 3000 level or higher, including 9 credits at the 4000 level.
- 18 credits of breadth electives including:



- at least 12 credits from courses that are offered outside the Faculty of Science; and
- up to 6 credits from fields of science not prescribed in the Major requirements; and
- 3 credits from a course at the 3000 level or higher.
- Cumulative GPA of 2.0 or higher.
- At least 50% of all courses for the BSc, and at least 66% of upper-level courses for the BSc, must be completed at KPU.

The Applications of Mathematics Major requires the completion of the following Core Requirements, as well as the requirements of one of the three concentrations below.

Core Requirements

Code	Title	Credits
MATH 1135	Problems and Concepts	3
Select one of the following:		3
MATH 1120	Differential Calculus	
MATH 1130	Calculus for Life Sciences I	
MATH 1140	Calculus I (Business Applications)	
MATH 1220 or MATH 1230	Integral Calculus Calculus for Life Sciences II	3
Select one of the following:		3
ENGL 1202	Reading and Writing About Selected Topics: An Introduction to Literature	
ENGL 1204	Reading and Writing About Genre: An Introduction to Literature	
A course approved to meet the writing-intensive requirement for KPU credentials		
PHYS 1101 or PHYS 1120	Physics for Life Sciences I Physics for Physical and Applied Sciences I	4
BIOL 1110 or CHEM 1110	Introductory Biology I The Structure of Matter Revised Course	4
CPSC 1103	Principles of Program Structure and Design I	3
CPSC 1204	Principles of Program Structure and Design II	3
ENGL 1100	Introduction to University Writing	3
MATH 2232	Linear Algebra	3
MATH 2321	Multivariate Calculus (Calculus III)	3
MATH 2410	Discrete Mathematics	3
MATH 3120	Introduction to Applied Mathematics	3
MATH 3421	Ordinary Differential Equations	3
MATH 4240	Mathematical Modelling	3
<u>STAT 1170</u>	<u>Introduction to Data Science: An AI Approach</u>	<u>3</u>
STAT 2315	Probability and Statistics	3
STAT 3315	Applied Inferential Statistics	3
Select one of the three Concentrations listed below		64-68

Concentrations

Biomathematics Concentration Requirements

Code	Title	Credits
BIOL 1110	Introductory Biology I	4
BIOL 1210	Introductory Biology II	4
BIOL 2322	Ecology	4
CHEM 1110	The Structure of Matter Revised Course	4
Select 18 credits from courses at the 1100 level or higher		18
Select 9 credits from courses at the 1100 level or higher		9
Select 3 credits from a course at the 1100 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		3
Select 3 credits from a course in BIOL at the 2000 level or higher		3
BIOL 2320 or BIOL 2321	Genetics Cell Biology	4
MATH 3140	Mathematical Computing	3
MATH 4210	Biomathematics	3

Select 9 credits from courses at the 3000 level or higher	9
Select 3 credits from a course at the 3000 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT	3
Select 6 credits from courses in BIOL at the 3000 level or higher ¹	6
Select 3 credits from a course in MATH or STAT at the 3000 level or higher ²	3
Select 6 credits from courses in MATH or STAT at the 4000 level ³	6

¹ BIOL 3165 and BIOL 3320 are recommended.

² Except MATH 3130 or MATH 4130

³ Except MATH 4130

Computational Mathematics Concentration Requirements

It is recommended that students choose sufficient electives from the physical sciences (Physics and Chemistry), computer science, or economics and business to provide expertise in an area of application.

Code	Title	Credits
CPSC 2302	Data Structures and Algorithms	3
MATH 2331	Introduction to Analysis	3
MATH 3110	Simulation Modeling	3
MATH 3140	Mathematical Computing	3
MATH 4220	Numerical Methods Revised Course	3
Select 18 credits from courses at the 1100 level or higher		18
Select 15 credits from courses at the 1100 level or higher		15
Select 9 credits from courses at the 1100 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		9
Select 9 credits from courses at the 3000 level or higher		9
Select 9 credits from courses in MATH or STAT at the 3000 level or higher ¹		9
Select 3 credits from a course at the 3000 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		3
Select 6 credits from courses in MATH or STAT at the 4000 level ²		6

¹ Except MATH 3130 or MATH 4130

² Except MATH 4130

Mathematics Education Concentration Requirements

It is recommended that students wishing to teach secondary level mathematics also prepare in a second teachable area; check the requirements of the institution that offers the desired education program.

Code	Title	Credits
PHYS 1102 or PHYS 1220	Physics for Life Sciences II Physics for Physical and Applied Sciences II	4
EDUC 2220	Introduction to Educational Psychology	3
MATH 2331	Introduction to Analysis	3
MATH 3130	Introduction to the Mathematics Classroom Revised Course	3
MATH 3150	The Structure of Mathematics	3
MATH 3250	Geometry	3
MATH 3322	Vector Calculus (Calculus IV)	3
MATH 3450	History of Mathematics Revised Course	3
MATH 4130	Theory of Mathematics Education Revised Course	3
Select 27 credits from courses at the 1100 level or higher		27
Select 21 credits from courses at the 1100 level or higher		21
Select 6 credits from courses at the 3000 level or higher		6
Select 3 credits from a course at the 3000 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT (EDUC recommended)		3
Select 3 credits from a course in MATH or STAT at the 3000 level or higher		3
Select 3 credits from a course in MATH or STAT at the 4000 level		3

Total Credits

Code	Title	Credits
		120-124



Credential Awarded

Upon successful completion of the major program students are eligible to receive a **Bachelor of Science**. Transcripts will indicate a **Major in Applications of Mathematics**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	<u>Communicate mathematical ideas and arguments effectively across various audiences and in multiple formats (written, oral, visual, and digital).</u> <i>N/A</i>
2	<u>Formulate and solve complex problems using mathematical and analytical reasoning in academic and applied contexts.</u>
3	<u>Use appropriate technology and software tools (e.g., programming languages, statistical software, modeling platforms) to support mathematical problem-solving and data analysis.</u>
4	<u>Apply mathematical knowledge to real-world and interdisciplinary problems, including in workplace, scientific, educational, and technological settings.</u>
5	<u>Use quantitative and analytical methods to support evidence-based decision making.</u>
6	<u>(Math Education) Plan and deliver effective mathematics instruction using pedagogical best practices and reflective teaching strategies.</u>
7	<u>(Biomath) Demonstrate a foundational understanding of biological systems, including plant and animal biology.</u>
8	<u>(Biomath) Apply mathematical tools to model and analyze biological phenomena across multiple levels of biological organization.</u>

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

Change in support requirements?

No

Abstract

Degree or non-degree program

Degree

Academic level

Undergraduate

Faculty

Science

Department

Mathematics

Program name

Bachelor of Science, Major in Applications of Mathematics

**Program Code**

BSC_ST_MATA

Program description

In the BSc in Applications of Mathematics program, traditional mathematics courses are combined with specialized courses that enable students to apply their mathematical skills in diverse fields, providing a broad range of options for careers or further education. Students can choose from among three concentrations, Biomathematics, Computational Mathematics and Mathematics Education, that are not readily available at the undergraduate level elsewhere in Canada.

Implementation dateSeptember ~~2026~~ 2024**Proposed Program Overview****Program Structure & Delivery****Proposed credential(s) to be granted****Credential Level**

Bachelor of Science

Date for next reviewSeptember ~~2031~~ 2029**Will this program include a co-operative education option?**

No

Discipline and Program Description**Course Delivery Options****Program Delivery Options****Information for Competitive Assessment****Information for Student Demand Assessment****Information for Labour Market Assessment****Financial Assessment Background Questions****Funding**[No Funding](#)**Preferred campus delivery**[Surrey](#)**Supplementary Documents****Curriculum Map and Program Learning Outcomes**[MATH Curriculum Map_BS MATH_09 Mar 2026.xlsx](#)

Key: 135

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.11

Meeting Date: April 8, 2026

Presenter(s): Allyson Rozell

AGENDA TITLE: PROGRAM REVISION: BACHELOR OF SCIENCE (HONOURS), MAJOR IN APPLICATIONS OF MATHEMATICS

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve the revisions to the Bachelor of Science (Honours), Major in Applications of Mathematics program, effective September 1, 2026.

COMMITTEE REPORT

Approved by the Faculty of Science Curriculum Committee on March 5, 2026.

Approved by the Faculty of Science Faculty Council on March 17, 2026.

Reason for Revision

As per the Procedures of [AC10](#), program revisions at KPU begin either 1) as actions arising from an approved Quality Assurance Plan developed through the program review process or 2) in response to specific issues whose solution cannot be delayed until a Program Review.

Please indicate which the reason for the revision

- Arising from an approved Quality Assurance Plan Indication date of approval
- Other issue Various updates needed to reflect changes including new STAT prefix, changing course offerings, and updating for clarity.

Key Messages

1. STAT 1170 has been added as a requirement for all concentrations. Also requires adjusting the number of general elective requirements (down by 3) for each concentration. This course

equips students with data science and AI skills aligned with current applied mathematics practice.

2. STAT courses added as equivalents to MATH when referring to collective offerings.
3. Updated program learning outcomes for completion and clarity.
4. Honours requirements added to the top and into Core and Concentration requirements.
5. Reduced excessive general electives.

Consultations

1. Mathematics Department
2. Curriculum Support Unit, Office of the Provost

Attachments

1. CIM Programs
[Bachelor of Science \(Honours\), Major in Applications of Mathematics](#)
-

Submitted by

Allyson Rozell, Chair of Math Department

Date submitted

March 24, 2026



History

1. Nov 28, 2023 by clmig-dboggess
2. Jul 9, 2024 by Ashley Allison (ashley.allison)
3. Sep 6, 2024 by Ashley Allison (ashley.allison)
4. May 12, 2025 by Ashley Allison (ashley.allison)

Viewing: BSCH_ST_MATA : Bachelor of Science (Honours), Major in Applications of Mathematics

Last approved: Mon, 12 May 2025 21:24:40 GMT

Last edit: 2026-03-26T15:39:01Z

Changes proposed by: Virginia Vandenberg

Overview

Program proposal contact(s)

Allyson Rozell

Calendar year edition

2026-2027 ~~2025-2026~~

Overview of proposed changes

	Proposed Changes	Rationale
1	Add STAT 1170 as requirement for all concentrations. Also requires adjusting the number of general elective requirements (down by 3) for each concentration	This course equips students with data science and AI skills aligned with current applied mathematics practice.
2	Add STAT as alternate to MATH when referring to collective offerings.	Updated to accommodate new prefix.
3	Add in updated program learning outcomes.	For completion and more clarity.
4	Added Honours Eligibility to the top of calendar entry and move MATH 4350 Senior Project to Core Requirements section.	For clarity.
5	Reduced excessive general electives: - Biomathematics Concentration - remove 15 credits of 1100 or higher electives and increase MATH or STAT at 3000 level or higher from 3 to 9 credits. - Mathematics Education Concentration: - reduce 24 credits of 1100 or higher to 21 credits and increase MATH or STAT at 3000 level or higher from 3 to 6 credits	To allow students to finish more quickly.

Requirements

Admission Requirements

Students pursuing a Major in Applications of Mathematics must be admitted to the Faculty of Science (<https://calendar.kpu.ca/programs-az/science/admission-requirements/>).

Honours Eligibility

Eligibility for the Bachelor of Science (Honours), Major in Applications of Mathematics program is restricted to students declared in the BSc program and requires permission of the department. To apply, students must have completed a minimum of 75 credits at the 1100 level or higher, and 6 program credits at the 3000 level or higher. Candidates should hold a Program Grade Point Average (PGPA) of 3.0 (or give a detailed justification for lower PGPA), and submit an application package to be reviewed by the Department of Mathematics.

Declaration Requirements

Students intending to graduate with this Faculty of Science degree must declare the credential by the time they complete 60 credits of undergraduate coursework. At the time of declaration, the student must satisfy all of the following requirements:

- In good academic standing with the University
- Completion of a minimum of 24 credits of undergraduate coursework
- Completion of MATH 1220 with a minimum grade of "C" or MATH 1230 with a minimum grade of "C+"



Curricular Requirements

All students must meet the following minimum requirements:

- 120 credits from courses at the 1100 level or higher.
- 45 credits from a minimum of 15 courses at the 3000 level or higher, including 9 credits at the 4000 level.
- 18 credits of breadth electives including:
 - at least 12 credits from courses that are offered outside the Faculty of Science; and
 - up to 6 credits from fields of science not prescribed in the Major requirements; and
 - 3 credits from a course at the 3000 level or higher.
- Cumulative GPA of 2.0 or higher.
- At least 50% of all courses for the BSc, and at least 66% of upper-level courses for the BSc, must be completed at KPU.

The Applications of Mathematics Major requires the completion of the following Core Requirements, as well as the requirements of one of the three concentrations below.

Honours students will need to complete a total of 36 credits from courses in MATH or STAT numbered 3000 or higher, excluding MATH 3130 and MATH 4130.

Honours students must complete 124 credits overall and maintain a PGPA of 3.0, with a minimum grade of B in those MATH or STAT courses numbered 3000 or higher used to satisfy the degree requirements.

Core Requirements

Code	Title	Credits
MATH 1135	Problems and Concepts	3
Select one of the following:		3
MATH 1120	Differential Calculus	
MATH 1130	Calculus for Life Sciences I	
MATH 1140	Calculus I (Business Applications)	
MATH 1220 or MATH 1230	Integral Calculus Calculus for Life Sciences II	3
Select one of the following:		3
ENGL 1202	Reading and Writing About Selected Topics: An Introduction to Literature	
ENGL 1204	Reading and Writing About Genre: An Introduction to Literature	
A course approved to meet the writing-intensive requirement for KPU credentials		
PHYS 1101 or PHYS 1120	Physics for Life Sciences I Physics for Physical and Applied Sciences I	4
BIOL 1110 or CHEM 1110	Introductory Biology I The Structure of Matter Revised Course	4
CPSC 1103	Principles of Program Structure and Design I	3
CPSC 1204	Principles of Program Structure and Design II	3
ENGL 1100	Introduction to University Writing	3
MATH 2232	Linear Algebra	3
MATH 2321	Multivariate Calculus (Calculus III)	3
MATH 2410	Discrete Mathematics	3
MATH 3120	Introduction to Applied Mathematics	3
MATH 3421	Ordinary Differential Equations	3
MATH 4240	Mathematical Modelling	3
<u>MATH 4350</u>	<u>Senior Project</u>	<u>3</u>
<u>STAT 1170</u>	<u>Introduction to Data Science: An AI Approach</u>	<u>3</u>
STAT 2315	Probability and Statistics	3
STAT 3315	Applied Inferential Statistics	3
Select one of the three Concentrations listed below		65-67

Concentrations

Biomathematics Concentration Requirements

Code	Title	Credits
BIOL 1110	Introductory Biology I	4
BIOL 1210	Introductory Biology II	4



BIOL 2322	Ecology	4
CHEM 1110	The Structure of Matter Revised Course	4
Select 18 credits from courses at the 1100 level or higher		18
Select 3 credits from a course at the 1100 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		3
Select 3 credits from a course in BIOL at the 2000 level or higher		3
BIOL 2320 or BIOL 2321	Genetics Cell Biology	4
MATH 3140	Mathematical Computing	3
MATH 4210	Biomathematics	3
Select 9 credits from courses at the 3000 level or higher		9
Select 3 credits from a course at the 3000 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		3
Select 6 credits from courses in BIOL at the 3000 level or higher ¹		6
Select 3 credits from a course in MATH at the 3000 level or higher²		3
Select 9 credits from a course in MATH or STAT at the 3000 level or higher²		9
Select 6 credits from courses in MATH or STAT at the 4000 level ³		6

¹ BIOL 3165 and BIOL 3320 are recommended.

² Except MATH 3130 or MATH 4130

³ Except MATH 4130

Computational Mathematics Concentration Requirements

It is recommended that students choose sufficient electives from the physical sciences (Physics and Chemistry), computer science, or economics and business to provide expertise in an area of application.

Code	Title	Credits
CPSC 2302	Data Structures and Algorithms	3
MATH 2331	Introduction to Analysis	3
MATH 3110	Simulation Modeling	3
MATH 3140	Mathematical Computing	3
MATH 4220	Numerical Methods Revised Course	3
Select 18 credits from courses at the 1100 level or higher		18
Select 15 credits from courses at the 1100 level or higher		15
Select 9 credits from courses at the 1100 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		9
Select 9 credits from courses at the 3000 level or higher		9
Select 9 credits from courses in MATH or STAT at the 3000 level or higher ¹		9
Select 3 credits from a course at the 3000 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT		3
Select 6 credits from courses in MATH or STAT at the 4000 level ²		6

¹ Except MATH 3130 or MATH 4130

² Except MATH 4130

Mathematics Education Concentration Requirements

It is recommended that students wishing to teach secondary level mathematics also prepare in a second teachable area; check the requirements of the institution that offers the desired education program.

Code	Title	Credits
PHYS 1102 or PHYS 1220	Physics for Life Sciences II Physics for Physical and Applied Sciences II	4
EDUC 2220	Introduction to Educational Psychology	3
MATH 2331	Introduction to Analysis	3
MATH 3130	Introduction to the Mathematics Classroom Revised Course	3
MATH 3150	The Structure of Mathematics	3
MATH 3250	Geometry	3
MATH 3322	Vector Calculus (Calculus IV)	3
MATH 3450	History of Mathematics Revised Course	3
MATH 4130	Theory of Mathematics Education Revised Course	3

Select 27 credits from courses at the 1100 level or higher	27
Select 21 credits from courses at the 1100 level or higher	21
Select 6 credits from courses at the 3000 level or higher	6
Select 3 credits from a course at the 3000 level or higher in any area of study except BIOL, CHEM, MATH, PHYS, or STAT (EDUC recommended)	3
Select 6 credits from a course in MATH or STAT at the 3000 level or higher	6
Select 3 credits from a course in MATH or STAT at the 4000 level	3
Select 3 credits from a course in MATH at the 4000 level	3

Total Credits

Total Credits Code	Title	Credits
		124-126

Honours

In addition to meeting the requirements listed above for the Major, Honours students will need to complete MATH 4350 as part of a total of 36 credits from courses in MATH numbered 3000 or higher, excluding MATH 3130 and MATH 4130.

Honours students must complete 132 credits overall and maintain a Program Grade Point Average (PGPA) of 3.0, with a minimum grade of B in those MATH courses numbered 3000 or higher used to satisfy the degree requirements.

To qualify for the Applications of Mathematics Honours degree, students must have been admitted to the Honours program prior to earning the Applications of Mathematics degree. Students may receive either the Applications of Mathematics degree or the Applications of Mathematics Honours degree, but not both.

Credential Awarded

Upon successful completion of the honours program, students are eligible to receive a **Bachelor of Science (Honours)**. Transcripts will indicate **Major in Applications of Mathematics**.

Program Learning Outcomes

A student who successfully completes the program will have reliably demonstrated the ability to:	
1	<u>Communicate mathematical ideas and arguments effectively across various audiences and in multiple formats (written, oral, visual, and digital).</u> N/A
2	<u>Formulate and solve complex problems using mathematical and analytical reasoning in academic and applied contexts.</u>
3	<u>Use appropriate technology and software tools (e.g., programming languages, statistical software, modeling platforms) to support mathematical problem-solving and data analysis.</u>
4	<u>Apply mathematical knowledge to real-world and interdisciplinary problems, including in workplace, scientific, educational, and technological settings.</u>
5	<u>Use quantitative and analytical methods to support evidence-based decision making.</u>
6	<u>(Math Education) Plan and deliver effective mathematics instruction using pedagogical best practices and reflective teaching strategies.</u>
7	<u>(Biomath) Demonstrate a foundational understanding of biological systems, including plant and animal biology.</u>
8	<u>(Biomath) Apply mathematical tools to model and analyze biological phenomena across multiple levels of biological organization.</u>

Transition plan

N/A

The following information will help determine whether there is a budgetary impact to the proposed program changes, and what additional information and consultation will be required. Please note that all additional budgetary requests in support of the proposed program change require approval from the Dean and the Provost, and additional financial documents may be required.

The information supplied is for administrative purposes only and will not be visible to reviewers in the academic governance process (e.g., Faculty and Senate committee members).

Change in space requirements?

No

Change in equipment requirements?

No

**Change in support requirements?**

No

Abstract**Degree or non-degree program**

Degree

Academic level

Undergraduate

Faculty

Science

Department

Mathematics

Program name

Bachelor of Science (Honours), Major in Applications of Mathematics

Program Code

BSCH_ST_MATA

Program description

In the BSc in Applications of Mathematics program, traditional mathematics courses are combined with specialized courses that enable students to apply their mathematical skills in diverse fields, providing a broad range of options for careers or further education. Students can choose from among three concentrations, Biomathematics, Computational Mathematics and Mathematics Education, that are not readily available at the undergraduate level elsewhere in Canada.

Implementation dateSeptember ~~2024~~ 2026**Proposed Program Overview****Program Structure & Delivery****Proposed credential(s) to be granted****Credential Level**

Bachelor of Science (Honours)

Date for next reviewSeptember ~~2029~~ 2031**Will this program include a co-operative education option?**

No



Discipline and Program Description

Course Delivery Options

Program Delivery Options

Information for Competitive Assessment

Information for Student Demand Assessment

Information for Labour Market Assessment

Financial Assessment Background Questions

Funding

[No Funding](#)

Preferred campus delivery

[Surrey](#)

Supplementary Documents

Curriculum Map and Program Learning Outcomes

[MATH Curriculum Map_BS MATH Honours_09 Mar 2026.xlsx](#)

Key: 139

SENATE STANDING COMMITTEE ON CURRICULUM

Agenda Number: 5.12

Meeting Date: *Wednesday, April 8, 2026*

Presenter(s): *Josephine Chan*

AGENDA TITLE: GRADUATE STUDIES GENERAL REGULATION 4: ACADEMIC PROGRESS

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THAT the Senate Standing Committee on Curriculum recommend that Senate approve Graduate Studies General Regulation 4: Academic Progress, effective September 1, 2026.

COMMITTEE REPORT

For Secretariat Use Only

Context and Background

In spring 2025, the Policy and Academic Affairs (PAA) unit reviewed standards for assessing academic progress specifically for students in master's degrees across post-secondary institutions in B.C. PAA subsequently drafted General Regulation 4 (attached). The proposed draft regulation establishes institution-wide standards on assessing academic progress for future master's students at KPU.

On December 1, 2025, the Graduate Studies Council passed a motion to recommend the draft Graduate Studies General Regulation 4: Academic Progress to the Senate for approval. The draft was later presented at the Senate Standing Committee on Curriculum (SSCC) on January 7, 2026. At that meeting, SSCC passed a motion to recommend the draft regulation to the Senate for approval.

After the January 7th SSCC meeting, PAA received additional questions regarding the role of the Department Chair in the draft regulation. As a result, PAA further examined best practices from other B.C. post-secondary institutions, and upon further research and consultations, it was determined that it should be the Academic Department's decision as to how they wish to operationalize the review and reporting of academic progress for their graduate students. This provides greater flexibility to the Academic Department, and it is in line with best practices at other B.C. post-secondary institutions, whereby the responsibility rests with the graduate program committee (similar to a program committee/academic department).

Key Messages

1. The draft regulation establishes institution-wide standards on academic progress for future master's students at KPU. It proposes a set of criteria for meeting satisfactory academic progress in master's degree programs at KPU, and includes a review process for unsatisfactory progress.
2. The draft regulation reflects feedback received after the January 7th SSCC meeting.
3. On March 4, 2026, the Graduate Studies Council moved that the draft regulation be recommended to the Senate for approval.

Resource Requirements

Administrative and governance support from Policy and Academic Affairs.

Implications/Risks

Without a regulation and the appropriate structures in place, there will be a lack of ongoing academic support to ensure that future master's students have the necessary resources and tools to progress and succeed in their graduate studies journey at KPU.

Consultations

1. Graduate Studies Council
2. Senate Standing Committee on Curriculum
3. Nadia Henwood, Associate Vice President, Enrolment Services and University Registrar
4. Office of the Registrar
5. VPA Deans

Attachments

1. General Regulation 4. Academic Progress
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Submitted by

Josephine Chan, Special Assistant to the Provost on Policy and Academic Affairs

Date submitted

March 26, 2026

Faculty of Graduate Studies General Regulations

Regulation Details

Name: Academic Progress

Number: 4.

Date of Implementation: September 1, 2026

Approving Jurisdiction: Senate

Administrative Responsibility: Graduate Studies Council

4.1 Review of Academic Progress

The academic progress of all graduate students will be reviewed regularly by the Graduate Guide to ensure that the students are making successful progress toward obtaining a graduate degree at KPU. In instances where a Graduate Guide is not appointed for the graduate student, a faculty member identified by the Academic Department of the program ~~the Department Chair~~ will be responsible for the review of a graduate student's academic progress. In accordance with Policy GV9 Establishment and/or Discontinuance of Faculties and Departments, an Academic Department is defined as an educational administrative sub-unit of a Faculty and/or School within a University, dealing with a particular field of knowledge.

A formal review on a graduate student's academic progress is normally done once a year, with informal reviews recommended to be done once every two semesters. Graduate Guides will submit a formal report on the student's progress to the ~~Department Chair~~ Dean or designate of the disciplinary Faculty at least once a year.

A graduate student must meet all of the following expectations to be deemed as maintaining satisfactory academic progress in their graduate program:

- 4.3.1.1 Maintain a minimum program GPA of 3.00 or higher for every term in which they are registered.
- 4.3.1.2 Complete all coursework and capstone, project or thesis (where applicable) within the time limit of the graduate program.
- 4.3.1.3 Meet all written milestones and expectations, which include maintaining regular and timely communication agreed upon by both the graduate student and their Graduate Guide.

~~4.3~~.1.4 Comply with all graduate studies general regulations and applicable institutional policies.

4.1.5 ~~3.1.5~~ Meet all other additional requirements as established by individual programs.

4.2 Unsatisfactory Academic Progress

If a student's progress appears to be unsatisfactory, the Graduate Guide will make a written report to the Dean or designate of the disciplinary Faculty and provide a copy to the Academic Department, the Department Chair, the student, and the Dean of the Faculty of Graduate Studies (FGS). The Dean or designate of the disciplinary Faculty will meet with the student concerned and/or consider any relevant material submitted by the student. After thorough examination of all aspects of the student's program, the Dean or designate of the disciplinary Faculty must make one of the three decisions below and inform the student and the Dean of FGS in writing:

- 4.2.1 The student's progress is assessed as satisfactory despite the report from the Graduate Guide~~Department Chair~~. The Dean or designate of the disciplinary Faculty will meet with the Graduate Guide ~~and/or the Department Chair~~ to review the areas of concern. This decision is unavailable if the student's program GPA is below the minimum required for continuation and graduation.
- 4.2.2 The student's progress is assessed as unsatisfactory, and a remediation plan will be developed by the Graduate Guide ~~and/or the Department Chair~~, in consultation with the student.
- 4.2.3 The student's progress is assessed as unsatisfactory, and the student is required to withdraw from the program. The Dean or designate of the disciplinary Faculty will inform the Dean of the FGS, who will notify the Office of the Registrar to withdraw the student from the program.

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