

FACULTY COUNCIL
Tuesday, March 19th, 2024
Microsoft Teams Meeting (Online)
4:15 PM – 6:15 PM

AGENDA

1. Additions/Approval of Agenda
2. Approval of Previous Meeting Minutes
3. Business Arising from the Minutes?
4. Reports
 - a) Chair's Report - (Allyson Rozell)
 - b) Dean's Report - (Brett Favaro)
 - c) Senate Reports
 - i) Senate - (Fergal Callaghan)
 - ii) Standing Committee on Program Review – (Fergal Callaghan)
 - iii) Standing Committee on University Budget – (Fergal Callaghan)
 - iv) Standing Committee on Academic Planning and Priorities – (Allyson Rozell)
 - v) Standing Committee on Curriculum – (Brett Favaro)
 - vi) Standing Committee on Research – (Brett Favaro)
 - vii) Standing Committee on Teaching and Learning – (Catherine Chow)
 - d) Science Committee Reports
 - i) Curriculum – (Brett Favaro)
 - Program Change Proposal – Diploma in Brewing and Brewery Operations (Dominic Bernard)
 - Program Change Proposal – Associate of Science Degree Framework (John Martin)
 - Course Revisions and New Course Proposals
 - [BIOL 2421 : Cellular Biochemistry](#)
 - [HSCI 2220 : Medical Terminology](#)
 - [HSCI 3225 : Nutrition](#)
 - [HSCI 4250 : Health Business](#)
 - [MATH 1170 : Introduction to Data Science](#) (new - Mehdi Salimi)
 - ii) Academic Planning and Priorities – (Allyson Rozell)
 - iii) Research – (No Representative)
 - iv) Nominations and Governance – (Michael Coombes)
 - v) New Business?



e) Guest Discussion:

Senate Subcommittee on Research is overseeing the creation of a Research Advancement Strategy. We will be joined by Daniel Bernstein, Victor Martinez, and Bernadine Sengalrayan, who are soliciting input that will be used to formulate the strategy.

Date of next meeting: April 16, 2024



FACULTY COUNCIL
Tuesday, February 20th, 2023
Microsoft Teams Meeting (Online)
12:00 PM – 1:30 PM

Meeting Minutes

Attendees:

Brett Favaro; *Dean*
Jeff Dyck; *Assoc. Dean*
Erika Eliason; *Assoc. Dean*
Ashley Schneider; *Recording*
Allyson Rozell; *Chair*
Mike Coombes; *Vice-Chair*
Casey McConill
Catherine Chow
Cameron Lait
Christina Iggulden
Fergal Callaghan
Kaylee Magee
Nick Inglis
Martina Solano Bielen
Melissa Bodner
Melissa Drury
Michael Kiraly
Muskandeep Kaur
Nadia Henwood
Tyron Tsui
Xavier Ardez

Regrets:

Alan Davis
Alex Lyon
Laura Bryce
Mary Hosseinyazdi
Michael Adams
Nicole Tunbridge
Samaneh Ghanzafari Hashemi
Sepideh Tahriri Adabi

1. Approval of the Agenda of February 20, 2024

*It was **moved** (Catherine Chow), **seconded** (Mike Coombes), **and carried THAT** the agenda be approved as distributed.*

2. Approval of the Faculty Council Minutes of January 16, 2024

*It was **moved** (Mike Coombes), **seconded** (Catherine Chow), **and carried THAT** the agenda be approved as distributed.*

3. Business Arising:

- Nothing arising

4. Reports:

a. Chair's Report:

- Daniel Bernstein etc. to visit and discuss KPU's Research Advancement Strategy
- Ashley just emailed out a list of our Grads for convocation next week - take a look!

b. Dean's Report:

- Discussion and updates on what we know now regarding the cap on International Students.
- Canada is in the process of making changes that makes it much more difficult for international students to study in Canada.
- Many universities across Canada have the need for international student tuition baked into the budget.
- We can't predict what the changes will be because we don't know what the provincial government will be allotting to each university for seats.
- Budget will get tighter with this restriction.
- Let's keep working on making connections when we do events so we can try to convert those interested parties into future applicants
- We'll be taking a look at the structure of the website to make it easier for students to apply. We'll be working on this and other projects with marketing.
- We'll be keeping a closer eye on fill rates for classes to make sure we're matching demand. We're trying to be proactive on this aspect as well.
- Robust discussion from Faculty council followed.
- When hosting events, please reach out to DeAnn Bremner and Triona King for support with the recruitment side of things.
- Brief review of the Future Student's Office CRM contact cards
The contact cards are the same as the "Connect with us" on the Future Student's page here: <https://www.kpu.ca/future-students#get-started>
- Our advisors will be hosting "declaration sessions" to help land the plane on students that are already here.
- Student representatives discussed their experience with communication from the university before and during their application process.

c. Senate Reports:

Senate:

At the start of the meeting, President Davis acknowledged the federal government's [announcement](#) of a cap on the number of study permits for international students coming to Canada. He reassured us that KPU leadership is advocating strongly for KPU and working hard to make sure the government understands how a decrease in international enrollments (and therefore tuition revenue) would affect us and the services we provide. He will make sure that the university community is kept informed of this issue as it evolves.

Senate voted in favour of recommending that the Board of Governors approve revisions to the BSc, Major in Biology, Cooperative Education Option and the BSc (Honours), Major in Biology, Cooperative Education Option.

Senate approved extending the suspension of the Bachelor of Horticulture Science, Major in Urban Ecosystems program until August 2025.

The draft university budget for fiscal year 2024/25 was presented and Senate voted in favour of endorsing the budget.

Senate approved the first KPU micro-credential (in medication management for Health Care Assistant students).

Notice was given of Spring 2024 elections to the Board and to Senate, including a seat for a Faculty of Science Senator for the term Sept 1 2024 to Aug 31 2027.

- **Senate Standing Committee on Program Review (SSCPR):**
 - Nothing to report.
- **Senate Standing Committee on University Budget (SSCUB):**
 - Nothing to report.
- **Senate Standing Committee on Academic Planning and Priorities (SSCAPP):**
 - Nothing to report.
- **Senate Standing Committee on Curriculum (SSCC):**
 - Sustainable Agriculture's program revisions were approved.
- **Senate Standing Committee on Research (SSCR):**
 - Nothing to report.
- **Senate Standing Committee on Teaching and Learning (SSCTL):**
 - Nothing to report.

d. Science Committee Reports

- **Curriculum Committee:**
 - **MOTION:** THAT Faculty Council approve the PHYS 4901 new course outline.
Moved: Mike Coombes; **Seconded:** Casey McConill; **Motion Carried.**
- **Academic Planning and Priorities:**
 - Nothing to report.
- **Research:**
 - Nothing to report.
- **Nominations and Governance:**
 - Updated Faculty Bylaws. Replacing "Faculty of Science and Horticulture" to "Faculty of Science" and fixing one typo.
This is more of an FYI and will need to go to Senate for approval.
 - Nom Gov still has a vacant seat.
 - Nom gov will do scholarship recommendations in the next few months



- KSA elections are coming up. Suggestion to consider inviting the Faculty of Science Student rep from the KSA to serve on Faculty Council.

5. New Business:

- Nothing arising.

Meeting adjourned by Chair at 12:55 PM

Moved: Mike Coombes; Seconded: Kaylee Magee

Date of next Faculty Council: March 19, 2024

SENATE

Agenda Number: Entered by Senate Office

Meeting Date: Entered by Senate Office

Presenter(s): Dominic Bernard

AGENDA TITLE: PROGRAM CHANGE FORM DIPLOMA IN BREWING AND BREWERY OPERATIONS

ACTION REQUESTED: Motion

RECOMMENDED RESOLUTION

THATSenate approve that the Diploma in Brewing and Brewery Operations change its admission requirement from a portfolio to a letter of intent as outlined in the Program Change Form

COMMITTEE REPORT

For Secretariat Use Only

Context and Background

It was highlighted in the Brewing and Brewery Operations quality assurance plan to reduce barriers to application and feedback indicates that the term portfolio is intimidating for some applicants. After consultations with OREG, we would like to change the current wording in the calendar from a portfolio to a letter of intent. We hope that a letter of intent would be more straightforward for applicants and it would still allow the department to vet applicants.

Key Messages

1. Change the portfolio admission requirement to a letter of intent.

Resource Requirements

That the change be made in the calendar.

Implications/Risks

Risk loosing out on applicants if the process seems too complicated therefore we are trying to make the application process more straightforward.

Consultations

| | | |
|-------------------------------|--------------------------|-------------|
| Office of the Provost: | David Burns | 16-Feb-2024 |
| Vice Chair of Senate: | Catherine Schwichtenberg | 16-Feb-2024 |
| OREG | Molly Kirsch | 16-Feb-2024 |

Attachments

- 1. Program Change Proposal (Degree)**
Diploma in Brewing and Brewery Operations
-

Submitted by

Dominic Bernard

Date submitted

[Date sent to the Secretariat)

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1. Program Change Proposal

For degree or non-degree program changes that may be deemed substantive by the Ministry of Advanced Education, Skills & Training's website, please consult with the Provost's Office before completing this document. For degree program changes that may be deemed substantive, the Ministry's [Determination of New Degree Template](#) must be completed and approved by Senate prior to submission to the Ministry for determination. Contact the Provost's Office for assistance in completing this template.

This form is to be used for:

- minor changes to any Senate-approved degree and non-degree programs at KPU
- addition of Honours designation to a Major program currently offered at KPU
- creation of a Minor degree for which a cognate Major program is currently offered at KPU

For more information on how to complete this form, please contact the Chair of the Senate Standing Committee on Curriculum (SSCC).

The Program Change Proposal should be submitted to Senate@kpu.ca by the submission deadline posted on the [Senate Standing Committee on Curriculum \(SSCC\) website](#) meeting along with any new, revised, or discontinued course outlines associated with the proposal submitted on the Consent Agenda for the same meeting. Faculties must have already formally approved the associated course outlines.

PROGRAM DETAILS

| | |
|-----------------------------|--|
| Faculty: | Faculty of Science |
| Program Name: | Diploma in Brewing and Brewery Operations |
| Department: | Brewing |
| Effective date: | September 2025 <i>Notes: If you are requesting a change to admission requirements, Senate approval is required by September meeting of Senate of the preceding academic year (prior to the first application cycle for the academic year). If you are requesting a change to declaration or curricular requirements, approval is required no later than the April meeting of Senate of the preceding academic year.</i> |
| Dean/Associate Dean: | Brett Favaro/Jeff Dyck |
| Chair/Coordinator: | Dominic Bernard |
| Submission Date: | TBA |

CONSULTATIONS

| Consultations | Person Consulted | Consultation Date |
|-----------------------------------|--------------------------|-------------------|
| Office of the Provost: | David Burns | 16-Feb-2024 |
| Vice Chair of Senate: | Catherine Schwichtenberg | 16-Feb-2024 |
| Other(s)* (if applicable): | | |

**For more complex consultations, please attach the Curriculum Consultation Forms. If you have any inquiries regarding the completion of the above Consultations section or the Curriculum Consultation Forms, please contact the Chair of the Senate Standing Committee on Curriculum.*

OFFICE OF THE REGISTRAR PROPOSAL REVIEW

| Review of Completed Program Change Proposal | Review Submission Date |
|---|------------------------|
| Send to OREGCurrConsult@kpu.ca for review** | 16-Feb-2024 |

**Allow 2 weeks for the Office of the Registrar's proposal review (in advance of the SSCC submission deadline).

If the proposed changes introduce new courses, submit 2 weeks in advance of your Faculty's curriculum committee meeting.

APPROVALS

| | Proposal Approval Date |
|--|------------------------|
| Faculty Curriculum Committee: | 7-Mar-2024 |
| Faculty Council (if required): | TBA |
| SSC on Curriculum: | TBA |
| SSC on University Budget (if required): | N/A |
| SSC on Academic Planning and Priorities (if required): | TBA |
| Senate: | TBA |

| | |
|--|---|
| Overview of Proposed Change(s): | Change the portfolio admission requirement for the Diploma in Brewing and Brewery Operations to a letter of intent. |
| Rationale: | It was highlighted in the Brewing and Brewery Operations quality assurance plan to reduce barriers to application and feedback indicates that the term portfolio is intimidating for some applicants. The word portfolio is daunting to some and could be a barrier to applications. After consultations with OREG, we would like to change the current wording in the calendar from a portfolio to a letter of intent. We hope that a letter of intent would be more straightforward for applicants and it would still allow the department to vet applicants. |
| URL(s): | https://calendar.kpu.ca/programs-az/science-horticulture/brewing/brewing-brewery-operations-diploma/ |

| | |
|----------------------------|---|
| Impact on Students: | <p>Check all that apply:</p> <p><input checked="" type="checkbox"/> The changes alter the admission, declaration or continuance requirements <i>If yes, provide both the current calendar entry and new calendar entry in full. (see below)</i></p> <p><input type="checkbox"/> The changes alter the curricular requirements <i>If yes, provide both the current calendar entry and new calendar entry in full. (see below)</i></p> <p><input type="checkbox"/> The changes change the total number of required credits <i>If yes, state the current number of total credits: Click or tap here to enter text.</i> <i>and proposed number of total credits: Click or tap here to enter text.</i></p> <p><input type="checkbox"/> The changes introduce new, revised or discontinued courses <i>Click or tap here to enter text. and list the courses below.</i></p> <p><input type="checkbox"/> The changes alter the credential awarded <i>If yes, indicate the proposed credential:</i></p> |
|----------------------------|---|

| | |
|------------------------|--|
| | |
| Transition Plan | <p><i>(Current students are entitled to complete their program of study without having additional requirements for graduation added midstream. If this proposed change impacts in-progress students, a transition plan must be provided to identify how in-progress students will be permitted to graduate, including the allowable course substitution(s).)</i></p> <p>Advisors will be informed of the change.</p> |

Current Requirements with Proposed Changes

Cut and paste the relevant section(s) in full from the current Calendar website. Use track changes to show the proposed changes.

For a new Minor degree for which a cognate Major program is currently offered at KPU, insert the following text below "This is a new Minor degree program for which a cognate Major degree program already exists at KPU. There is no existing curriculum for the minor, and as per Policy AC11 there is no requirement for a Concept Paper or FPP."

New Requirements

Provide a clean copy to show how the new Calendar entry will appear. List courses in alpha/numeric order.

Admission Requirements

In addition to the Faculty's Admission Requirements, which consist of KPU's [undergraduate English Proficiency Requirement](#), the following program admission requirements apply:

- ~~Portfolio Review~~
- A letter of intent, of about 500 words in length, 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
 - Chemistry 11 with a minimum grade of C+ (or equivalent), and Level E1 as defined in the [Math Alternatives Table](#), or
- Recommendation by the Admissions Selection Committee.

Portfolio Review

~~Applicants will be provided portfolio requirements and instructions for submission upon receipt of an application.~~

~~For more information about the portfolio requirements, visit the department's website at kpu.ca/brew~~

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

Admission Requirements

In addition to the Faculty's Admission Requirements, which consist of KPU's [undergraduate English Proficiency Requirement](#), the following program admission requirements apply:

- A letter of intent, of about 500 words in length, 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
 - Chemistry 11 with a minimum grade of C+ (or equivalent), and Level E1 as defined in the [Math Alternatives Table](#), or
 - 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.

2. Curriculum Consultations

Please consult with the Office of the Provost as additional consultations may be required depending on the scope of the proposed program changes.

The proposal to change the portfolio requirement to a letter of intent for the admission requirements of the Brewery and Brewery Operations Program would not impact the current curriculum. The department is supportive of this change.

For consultees, please consider the following questions when providing your feedback to the Proponent:

- Does your department/unit support the proposed curriculum? Provide rationale for support/non-support.
- How does the proposed curriculum impact your department/unit?
- How does the proposed curriculum impact your program?
- Is there potential for curricular overlap with current offerings?

| Name | Department, Program and/or Faculty | Comments | Date Consulted |
|------|------------------------------------|-----------|----------------|
| | | Comments: | |
| | | Comments: | |
| | | Comments: | |
| | | Comments: | |
| | | Comments: | |
| | | Comments: | |

3. Financial Assessment Questions

Financial Assessment Questions

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.

| | |
|---|--|
| Change in number of credits | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |
| Change in space requirements | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |
| Change in equipment requirements | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |
| Change in support requirements | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |

Please attach any financial document if required.

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1. Program Change Proposal

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The Program Change Proposal should be submitted to Senate@kpu.ca by the submission deadline posted on the [Senate Standing Committee on Curriculum \(SSCC\) website](#) meeting along with any new, revised, or discontinued course outlines associated with the proposal submitted on the Consent Agenda for the same meeting. Faculties must have already formally approved the associated course outlines.

PROGRAM DETAILS

| | |
|-----------------------------|---|
| Faculty: | Faculty of Science |
| Program Name: | Associate of Science Degree Framework |
| Department: | N/A |
| Effective date: | Fall 2024 <i>Notes: If you are requesting a change to admission requirements, Senate approval is required by September meeting of Senate of the preceding academic year (prior to the first application cycle for the academic year). If you are requesting a change to declaration or curricular requirements, approval is required no later than the April meeting of Senate of the preceding academic year.</i> |
| Dean/Associate Dean: | Brett Favaro |
| Chair/Coordinator: | N/A |
| Submission Date: | |

CONSULTATIONS

| Consultations | Person Consulted | Consultation Date |
|-----------------------------------|--------------------------|-------------------|
| Office of the Provost: | David Burns | January 11, 2024 |
| Vice Chair of Senate: | Catherine Schwichtenberg | December 22, 2023 |
| Other(s)* (if applicable): | OREG Consult | March 7, 2024 |

**For more complex consultations, please attach the Curriculum Consultation Forms. If you have any inquiries regarding the completion of the above Consultations section or the Curriculum Consultation Forms, please contact the Chair of the Senate Standing Committee on Curriculum.*

OFFICE OF THE REGISTRAR PROPOSAL REVIEW

| Review of Completed Program Change Proposal | Review Submission Date |
|---|------------------------|
| Send to OREGCurrConsult@kpu.ca for review** | |

**Allow 2 weeks for the Office of the Registrar's proposal review (in advance of the SSCC submission deadline).

If the proposed changes introduce new courses, submit 2 weeks in advance of your Faculty's curriculum committee meeting.

APPROVALS

| | Proposal Approval Date |
|---|--|
| Faculty Curriculum Committee: | TBD |
| Faculty Council (if required): | <i>(Not needed if the Faculty Curriculum Committee has delegated authority to approve program revisions on behalf of their Faculty Council.)</i> |
| SSC on Curriculum: | TBD |
| SSC on University Budget (if required): | TBD |
| SSC on Academic Planning and Priorities (if required): | TBD |
| Senate: | TBD |

| | |
|--|---|
| Overview of Proposed Change(s): | Addition of GEOG 1102 to the First Year Science Requirements. |
| Rationale: | <ol style="list-style-type: none"> 1. GEOG 1102 (4) was created (to better meet student and department needs) from combining two previous GEOG courses (1110 and 1120) that were both considered science courses by KPU and appeared on previous versions of the ASc. However GEOG 1102 is not on the list of possible courses for the ASc. 2. The course content has not changed, only combined, and has the scientific rigour and background to fully qualify as a (lab) science course with 10-11 labs per semester. It has the scientific rigour of other SCIH courses. 3. A near equivalent course (ENVI 1216) at KPU is considered SCIH. 4. KPU's own ASc credential in 2023 considers 2nd year GEOG courses equivalent science courses. GEOG 1102 is a prerequisite for these second year courses. <p>Therefore GEOG 1102 (4) should be added to the ASc as it is in all respects a science course. This will also provide SCIH students more flexibility in choosing courses.</p> |

| | |
|----------------|---|
| URL(s): | https://calendar.kpu.ca/programs-az/science-horticulture/as-degree-framework/#requirementstext |
|----------------|---|

| | |
|----------------------------|--|
| Impact on Students: | <p>Check all that apply:</p> <p><input type="checkbox"/> The changes alter the admission, declaration or continuance requirements <i>If yes, provide both the current calendar entry and new calendar entry in full. (see below)</i></p> <p><input checked="" type="checkbox"/> The changes alter the curricular requirements <i>If yes, provide both the current calendar entry and new calendar entry in full. (see below)</i></p> <p><input type="checkbox"/> The changes change the total number of required credits <i>If yes, state the current number of total credits: Click or tap here to enter text. and proposed number of total credits:Click or tap here to enter text.</i></p> <p><input type="checkbox"/> The changes introduce new, revised or discontinued courses <i>Click or tap here to enter text.and list the courses below.</i></p> <p><input type="checkbox"/> The changes alter the credential awarded <i>If yes, indicate the proposed credential:</i></p> |
| Transition Plan | <p>No transition plan is needed as this is only an additional course, to a list of many possible courses, that SCIH students can take to fulfill requirements of the ASc.</p> <p>However, it might be helpful to pass this change on to science advisors so students will know that GEOG 1102 does indeed qualify as a science course. This will allow SCIH students more choice in completing their degrees.</p> |

Curriculum Map¹

PLO #1:

PLO #2:

PLO #3:

PLO #4:

PLO #5:

¹ **Introduced [I]:** Course learning outcomes that concentrate on knowledge or skills related to the program outcomes at a basic level or skills at an entry-level of complexity.

Developing [D]: Course level outcomes that demonstrate learning at an increasing level of proficiency of the program level outcome as well expanding complexity.

Advanced [A]: Course level outcomes that demonstrate learning related to the program level outcome with an increasing level of independence, expertise and sophistication or integrate the use of content or skills in multiple levels of complexity.

PLO #6:

| | | | | | |
|--|---|----------|--|---|----------|
| <p>Current Requirements with Proposed Changes <i>Cut and paste the relevant section(s) in full from the current Calendar website. Use <u>track changes</u> to show the proposed changes.</i></p> <p><i>For a new Minor degree for which a cognate Major program is currently offered at KPU, insert the following text below "This is a new Minor degree program for which a cognate Major degree program already exists at KPU. There is no existing curriculum for the minor, and as per Policy AC11 there is no requirement for a Concept Paper or FPP."</i></p> | | | <p>New Requirements <i>Provide a clean copy to show how the new Calendar entry will appear. List courses in alpha/numeric order.</i></p> | | |
| <p>Admission Requirements Students pursuing an Associate of Science Degree must be admitted to the Faculty of Science & Horticulture.</p> | | | <p>Admission Requirements Students pursuing an Associate of Science Degree must be admitted to the Faculty of Science & Horticulture.</p> | | |
| <p>Curricular Requirements Students are required to complete 60 semester credit hours of first-year and second-year courses. A minimum overall GPA of 2.0 is required, with a minimum grade of D in each course counting towards the Associate of Science Degree.</p> <p>The Associate of Science Degree follows the standards published by the British Columbia Council on Admissions & Transfer (BCCAT) www.bctransferguide.ca/learn-more-about/associate-degrees/. Accordingly, all courses used as part of the degree must be transferrable to one of the following BC universities:</p> <ul style="list-style-type: none"> • Simon Fraser University (SFU) • University of British Columbia (Vancouver or Okanagan Campuses) (UBC) • University of Northern British Columbia (UNBC) • University of Victoria (UVic) | | | <p>Curricular Requirements Students are required to complete 60 semester credit hours of first-year and second-year courses. A minimum overall GPA of 2.0 is required, with a minimum grade of D in each course counting towards the Associate of Science Degree.</p> <p>The Associate of Science Degree follows the standards published by the British Columbia Council on Admissions & Transfer (BCCAT) www.bctransferguide.ca/learn-more-about/associate-degrees/. Accordingly, all courses used as part of the degree must be transferrable to one of the following BC universities:</p> <ul style="list-style-type: none"> • Simon Fraser University (SFU) • University of British Columbia (Vancouver or Okanagan Campuses) (UBC) • University of Northern British Columbia (UNBC) • University of Victoria (UVic) | | |
| <p>Specific Requirements</p> | | | <p>Specific Requirements</p> | | |
| <p>English Requirements</p> | | | <p>English Requirements</p> | | |
| <p>ENGL 1100</p> | <p>Introduction to University Writing</p> | <p>3</p> | <p>ENGL 1100</p> | <p>Introduction to University Writing</p> | <p>3</p> |
| <p>Select one additional first year ENGL course</p> | | | <p>Select one additional first year ENGL course</p> | | |
| <p>Math Requirements¹</p> | | | <p>Math Requirements¹</p> | | |

| | | | |
|---|---|---|---|
| Select six credits of university level mathematics, which shall include at least three credits in Calculus. | 6 | Select six credits of university level mathematics, which shall include at least three credits in Calculus. | 6 |
| First Year Science Requirements | | First Year Science Requirements | |
| Select six science courses from the following (at least one must be a lab science course): | | Select six science courses from the following (at least one must be a lab science course): | |
| ASTR 1120 | Introduction to Astrophysics | ASTR 1120 | Introduction to Astrophysics |
| BIOL 1110 | Introductory Biology I | BIOL 1110 | Introductory Biology I |
| BIOL 1210 | Introductory Biology II | BIOL 1210 | Introductory Biology II |
| CHEM 1105 | Introductory Chemistry ² | CHEM 1105 | Introductory Chemistry ² |
| CHEM 1110 | The Structure of Matter | CHEM 1110 | The Structure of Matter |
| CHEM 1210 | Chemical Energetics and Dynamics | CHEM 1210 | Chemical Energetics and Dynamics |
| CPSC 1100 | Introduction to Computer Literacy | CPSC 1100 | Introduction to Computer Literacy |
| CPSC 1103 | Principles of Program Structure and Design I | CPSC 1103 | Principles of Program Structure and Design I |
| CPSC 1204 | Principles of Program Structure and Design II | CPSC 1204 | Principles of Program Structure and Design II |
| GEOG 1102 | Physical Geography | GEOG 1102 | Physical Geography |
| MATH 1112 | Pre-Calculus ² | MATH 1112 | Pre-Calculus ² |
| MATH 1115 | Statistics I | MATH 1115 | Statistics I |
| MATH 1152 | Matrix Algebra for Engineers (if not already counted) | MATH 1152 | Matrix Algebra for Engineers (if not already counted) |
| PHYS 1100 | Introductory Physics ² | PHYS 1100 | Introductory Physics ² |
| PHYS 1101 | Physics for Life Sciences I | PHYS 1101 | Physics for Life Sciences I |
| Or PHYS 1120 | Physics for Life Sciences II | Or PHYS 1120 | Physics for Life Sciences II |
| PHYS 1170 | Mechanics I | PHYS 1170 | Mechanics I |
| Or PHYS 1220 | Physics for Physical and Applied Sciences II | Or PHYS 1220 | Physics for Physical and Applied Sciences II |
| Second Year Science Requirements | | Second Year Science Requirements | |
| Select six science courses taken in a minimum of two different subject areas from among the following: | | Select six science courses taken in a minimum of two different subject areas from among the following: | |
| BIOL 2320 | Genetics | BIOL 2320 | Genetics |
| BIOL 2321 | Cell Biology | BIOL 2321 | Cell Biology |
| BIOL 2322 | Ecology | BIOL 2322 | Ecology |
| BIOL 2330 | Microbiology | BIOL 2330 | Microbiology |
| BIOL 2421 | Cellular Biochemistry | BIOL 2421 | Cellular Biochemistry |
| CHEM 2311 | Physical Chemistry for Life Sciences | CHEM 2311 | Physical Chemistry for Life Sciences |
| or CHEM 3310 | Physical Chemistry | or CHEM 3310 | Physical Chemistry |

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|---|---|--|---|---|--|
| CHEM 2315 | Analytical Chemistry | | CHEM 2315 | Analytical Chemistry | |
| CHEM 2320 | Organic Chemistry I | | CHEM 2320 | Organic Chemistry I | |
| CHEM 2420 | Organic Chemistry II | | CHEM 2420 | Organic Chemistry II | |
| CPSC 2302 | Data Structures and Algorithms | | CPSC 2302 | Data Structures and Algorithms | |
| ENVI 2305 | Environmental Toxicology | | ENVI 2305 | Environmental Toxicology | |
| GEOG 2310 | Climatology | | GEOG 2310 | Climatology | |
| GEOG 2320 | Geomorphology | | GEOG 2320 | Geomorphology | |
| GEOG 2390 | Quantitative Methods in Geography | | GEOG 2390 | Quantitative Methods in Geography | |
| GEOG 2400 | Introduction to GIS | | GEOG 2400 | Introduction to GIS | |
| MATH 2232 | Linear Algebra | | MATH 2232 | Linear Algebra | |
| MATH 2315 | Probability and Statistics | | MATH 2315 | Probability and Statistics | |
| MATH 2321 | Multivariate Calculus (Calculus III) | | MATH 2321 | Multivariate Calculus (Calculus III) | |
| or MATH 2821 | Multivariate and Vector Calculus | | or MATH 2821 | Multivariate and Vector Calculus | |
| MATH 2331 | Introduction to Analysis | | MATH 2331 | Introduction to Analysis | |
| MATH 2335 | Statistics for Life Sciences | | MATH 2335 | Statistics for Life Sciences | |
| or MATH 2341 | Introduction to Statistics for Business | | or MATH 2341 | Introduction to Statistics for Business | |
| MATH 2410 | Discrete Mathematics | | MATH 2410 | Discrete Mathematics | |
| MATH 3322 | Vector Calculus (Calculus IV) | | MATH 3322 | Vector Calculus (Calculus IV) | |
| MATH 3421 | Ordinary Differential Equations | | MATH 3421 | Ordinary Differential Equations | |
| PHYS 2010 | Modern Physics | | PHYS 2010 | Modern Physics | |
| PHYS 2030 | Classical Mechanics | | PHYS 2030 | Classical Mechanics | |
| PHYS 2040 | Thermal Physics | | PHYS 2040 | Thermal Physics | |
| PHYS 2330 | Intermediate Mechanics | | PHYS 2330 | Intermediate Mechanics | |
| PHYS 2420 | Intermediate Electricity and Magnetism | | PHYS 2420 | Intermediate Electricity and Magnetism | |
| Additional Courses Requirements | | | Additional Courses Requirements | | |
| Select two courses in Arts ³ , not counting English (ENGL) | | | Select two courses in Arts ³ , not counting English (ENGL) | | |
| Select two additional two courses that are designated as university transferable. | | | Select two additional two courses that are designated as university transferable. | | |
| ¹ Most Science degrees require both Calculus I and Calculus II. Institutions have the discretion to set higher standards, including not recognizing MATH 1112 . ² Institutions have the discretion to not recognize CHEM 1105 , MATH 1112 or PHYS 1100 . | | | ¹ Most Science degrees require both Calculus I and Calculus II. Institutions have the discretion to set higher standards, including not recognizing MATH 1112 . ² Institutions have the discretion to not recognize CHEM 1105 , MATH 1112 or PHYS 1100 . | | |

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| ³ Any Arts subject area not noted in the science categories above, and includes all geography courses not specified in the science categories above. | ³ Any Arts subject area not noted in the science categories above, and includes all geography courses not specified in the science categories above. |
| Students lacking the appropriate prerequisites will likely require more than two years to complete the Associate of Science. Since the Associate of Science represents completion of one half of a Bachelor of Science degree, as long as appropriate courses are completed at KPU, students should ideally be able to complete their Bachelor of Science in a further two years at the receiving University. | Students lacking the appropriate prerequisites will likely require more than two years to complete the Associate of Science. Since the Associate of Science represents completion of one half of a Bachelor of Science degree, as long as appropriate courses are completed at KPU, students should ideally be able to complete their Bachelor of Science in a further two years at the receiving University. |
| Credential Awarded Upon successful completion of this program, students are eligible to receive an Associate of Science degree in their chosen subject area. | Credential Awarded Upon successful completion of this program, students are eligible to receive an Associate of Science degree in their chosen subject area. |

| List any new, revised or discontinued courses associated with this program change | | | |
|---|---------------|--|-------------------------------|
| Course Subject Code | Course Number | Descriptive Title, hyperlinked to course outline | New, Revised, or Discontinued |
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2. Curriculum Consultations

Please consult with the Office of the Provost as additional consultations may be required depending on the scope of the proposed program changes.

For consultees, please consider the following questions when providing your feedback to the Proponent:

- Does your department/unit support the proposed curriculum? Provide rationale for support/non-support.
- How does the proposed curriculum impact your department/unit?
- How does the proposed curriculum impact your program?
- Is there potential for curricular overlap with current offerings?

| Name | Department, Program and/or Faculty | Comments | Date Consulted |
|--|--|--|-------------------------------|
| Brett Favaro | Faculty of Science Dean's Office | Comments: Click or tap here to enter text. | Click or tap to enter a date. |
| Virginia Vandenberg Click or tap here to enter text. | Curriculum Support team, Office of the Provost | Comments: Advice on drafting program change form. | 12/18/2023 |
| Click or tap here to enter text. Click or tap here to enter text. | | Comments: Click or tap here to enter text. | Click or tap to enter a date. |
| Click or tap here to enter text. Click or tap here to enter text. | | Comments: Click or tap here to enter text. | Click or tap to enter a date. |
| Click or tap here to enter text. Click or tap here to enter text. | | Comments: Click or tap here to enter text. | Click or tap to enter a date. |
| Click or tap here to enter text. Click or tap here to enter text. | | Comments: Click or tap here to enter text. | Click or tap to enter a date. |

3. Financial Assessment Questions

Financial Assessment Questions

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.

| | |
|---|--|
| Change in number of credits | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |
| Change in space requirements | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |
| Change in equipment requirements | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |
| Change in support requirements | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, please provide details: |

Please attach any financial document if required.