

The following Motions and Documents were considered by the GFC Programs Committee at its Thursday, January 11, 2024 meeting:

---

Agenda Title: **Course, Minor Program, and Minor Regulation Changes**

- Agricultural, Life, and Environmental Sciences
- Arts
- Business
- Campus Saint-Jean
- Education *\*Update 2024-01-12\**
- Kinesiology, Sport and Recreation
- Medicine and Dentistry
- Nursing
- Office of the Registrar
- Science

CARRIED MOTION:

THAT the GFC Programs Committee approve, with delegated authority from General Faculties Council, the attached submissions from the Faculties of Agricultural, Life, and Environmental Sciences, Arts, Business, Campus Saint-Jean, Education *\*Update 2024-01-12\**, Kinesiology, Sport and Recreation, Medicine and Dentistry, Nursing, Office of the Registrar, and Science

Final Item: 4.

Agenda Title: **Addition of CASPer standardized situational judgment test to PT Admissions**

CARRIED MOTION:

THAT the GFC Programs Committee approve, with delegated authority from the General Faculties Council, the proposed changes to the Admissions Requirement for Master of Science in Physical Therapy, for inclusion in the 2024-2025 University Calendar.

Final Item: 5.

Agenda Title: **Proposed Graduate Program Calendar Harmonization, Faculty of Medicine and Dentistry**

CARRIED MOTION:

THAT the GFC Programs Committee approve the proposed changes to the University Calendar to harmonize the Faculty of Medicine and Dentistry's Graduate Program admission and program requirement regulation as outlined in the attached submission, for implementation in the 2024-2025 University Calendar.

Final Item: 6.

Agenda Title: **Changes to the BSc (Major and Honors) and regulations - Faculty of Science**

CARRIED MOTION:

THAT the GFC Programs Committee approve, under delegated authority from General Faculties Council, the proposed changes to the admission requirements for the Bachelor of Science (Major and Honors), as

proposed by the Faculty of Science and as set forth in Attachment 2, to take effect in the 2024-2025 University Calendar.

CARRIED MOTION:

THAT the GFC Programs Committee approve, under delegated authority from General Faculties Council, the proposed changes to the Bachelor of Science (Major and Honors), as proposed by the Faculty of Science and as set forth in Attachment 3, to take effect in the 2024-2025 University Calendar.

CARRIED MOTION:

: THAT the GFC Programs Committee approve, under delegated authority from General Faculties Council, the proposed changes to Faculty of Science General Information, Regulations, and Courses, as proposed by the Faculty of Science and as set forth in Attachment 4, to take effect in the 2024-2025 University Calendar.  
Final Item: 7.

Agenda Title: **Graduate Embedded Certificate in Epidemiology and Applied Biostatistics**

CARRIED MOTION:

THAT the GFC Program Committee, with delegated authority from General Faculties Council, approve the proposed Graduate Embedded Certificate in Epidemiology and Applied Biostatistics as proposed by the School of Public Health and as set forth in Attachment 1, for implementation upon approval and inclusion in the 2024-2025 University Calendar

Final Item: 8.

Agenda Title: **Graduate Embedded Certificate in Global Health Equity**

CARRIED MOTION:

That the GFC Programs Committee approve, under delegated authority from General Faculties Council, the establishment of the graduate embedded certificate in Global Health Equity, as proposed by the School of Public Health and as set forth in Attachment 1, for implementation upon approval and inclusion in the 2024-2025 University Calendar.

Final Item: 9.

Agenda Title: **AI Everywhere Embedded Certificate**

CARRIED MOTION:

That the GFC Programs Committee approve, under delegated authority from General Faculties Council, the establishment of the undergraduate embedded certificate Artificial Intelligence Everywhere, as proposed by the Department of Computing Science and as set forth in Attachment 1, to take effect for Fall 2024.

Final Item: 10.

Agenda Title: **Suspension of Minors in Mathematics and Statistics**

CARRIED MOTION:

---

THAT the GFC Programs Committee approve, with delegated authority from General Faculties Council, the suspension of admission/transfer to the Minor in Mathematics (Faculty of Arts) and the Minor in Statistics (Faculty of Arts).

Final Item: 11.

Agenda Title: **Graduate Certificate Admissions**

CARRIED MOTION:

THAT the GFC Programs Committee approve the proposed changes for Graduate Certificate regulate as set out in the Academic Requirements, Laddering, and Maintenance of Registration sections, for inclusion in the 2024-2025 University Calendar, and implementation upon approval.

Final Item: 12.

---



**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:** To approve course, minor program, and minor regulations changes for the Faculties of Agricultural, Life and Environmental Sciences; Arts; Business; Campus Saint-Jean; Education\*; Kinesiology, Sport and Recreation; Medicine and Dentistry, Nursing; and Science and from the Office of the Registrar.

<b>DATE</b>	January 11, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Provost and Vice-President (Academic)

**MOTION: THAT the GFC Programs Committee approve, with delegated authority from General Faculties Council, the attached submissions from the Faculties of Agricultural, Life and Environmental Sciences; Arts; Business; Campus Saint-Jean; Education; Kinesiology, Sport and Recreation; Medicine and Dentistry, Nursing; and Science and from the Office of the Registrar.**

***\*Please note the attachments for Education: Embedded Certificate in Global Citizenship have been updated 2024-01-12\****

**EXECUTIVE SUMMARY:**

All routine course, minor program, and minor regulation changes that do not involve or affect other Faculties or units, and do not form part of a proposal for a new program or a substantive program change, are approved regularly by the GFC Programs Committee in an omnibus motion.

See individual item for Faculty Council approval information.

**Supporting Materials:**

Attachments:

1. Faculties of Agricultural, Life and Environmental Sciences;
2. Arts;
3. Business;
4. Campus Saint-Jean;
5. Education;
6. Kinesiology, Sport and Recreation;
7. Medicine and Dentistry,
8. Nursing;
9. Science and





10. The Office of the Registrar

Faculty (& Department or Academic Unit):	ALES (AFNS)
Contact Person:	Dr. Nat Kav ( <a href="mailto:nat@ualberta.ca">nat@ualberta.ca</a> ) and Stephanie Dickie ( <a href="mailto:sdickie@ualberta.ca">sdickie@ualberta.ca</a> )
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>Undergraduate</li> <li></li> </ul>
For which term will this change take effect?	Fall 2024 (early implemented for Fall 2023)

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

We will offer a “new” capstone course ANSC 473 (Dairy Challenge) starting Winter 2025; this course has been offered as ANSC 400, but the course calendar was changed so that it has the unique own course number. Although ANSC 473 (Dairy Challenge or Advanced Dairy Management) has ANSC 472 (Applied Dairy Production Science) as a prerequisite, both courses were offered in Winter term, which creates some problems in course delivery. Some students who have completed ANSC 472 in the 4<sup>th</sup> year would lose an opportunity to take ANSC 473 while others would be forced to take ANSC 472 in the 3<sup>rd</sup> year so that they can take ANSC 473 in the 4<sup>th</sup> year. It is not desirable to have ANSC 472 as a co-requisite because students would have variable background, depending on whether they completed ANSC 472, and it creates huge challenges in the course delivery; we essentially cannot build on the foundation taught in ANSC 472. We can accomplish efficient and effective course delivery and maximize students’ learning experience by moving ANSC 472 from Winter to Fall term.

## Course Template

Current Calendar Entry	Proposed Calendar Entry
AN SC 472 Applied Dairy Production Science  <b>★ 3 (fi 6)(SECOND, 3-0-3)</b> Examination of the structure of the dairy industry, evaluation of management practices to optimize production efficiency and animal well-being, and integration of nutritional, physiological, and biochemical processes involved in production of quality milk. Laboratories emphasize practical applications, field trips, and discussion. Prerequisite: (AN SC 101 or 200), AN SC 260 and 310, or consent of instructor.	AN SC 472 Applied Dairy Production Science  <b>★ 3 (fi 6)(FIRST, 3-0-3)</b> Examination of the structure of the dairy industry, evaluation of management practices to optimize production efficiency and animal well-being, and integration of nutritional, physiological, and biochemical processes involved in production of quality milk. Laboratories emphasize practical applications, field trips, and discussion. Prerequisite: (AN SC 101 or 200), AN SC 260 and AN SC 310, or consent of instructor.

## Reviewed/Approved by:

Approved by: Richard Uwiera ANFS Divisional Director, Clover Bench (Chair) Academic Program Committee

REQUIRED: ALES Academic Coordinating Committee November 29, 2023  
 Ag/AH Program Committee: October 10, 2023  
 ANSC Division: November 20, 2023



This package contains: [Undergraduate - Courses](#)

---

Faculty approval date:

AAC Date: October 31, 2023
----------------------------

Page	Department or Unit	What is Changing
2	East Asian Studies	CHINA 250
4	East Asian Studies	CHINA 301
5	East Asian Studies	EASIA 201
7	East Asian Studies	EASIA 271
8	East Asian Studies	EASIA 272
9	East Asian Studies	EASIA 348
11	East Asian Studies	EASIA 369
12	East Asian Studies	EASIA 374
13	East Asian Studies	EASIA 461
14	History, Classics and Religion	RELIG 220, 222, 320, 422,
17	Linguistics	LING 418
19	Linguistics	LING 420
20	Linguistics	LING 111, 211, 212, 213, 311, 318
24	St Joseph's College	CHRTC 100
25	St Joseph's College	CHRTC 220
26	St Joseph's College	CHRTC 357
27	Women's and Gender Studies	WGS 450

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Christopher Lupke
Department/Unit Approval Date:	October 6, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This is a paired new-course creation of CHINA 250 and a deletion of EASIA 201; in effect, we are changing the course code, and have been advised that this should be done with one new course creation, and one course deletion. Details are below.

1. Course designation and number are being changed from EASIA 201 to CHINA 250. This course is being taught as a Mandarin-language course; all Mandarin-language courses use the subject code CHINA, not EASIA. The instructor who teaches this course on an occasional basis did not understand the difference in descriptors, and other faculty did not catch it until now.
2. We are removing the sentence “Designed to be taken concurrently with CHINA 201 or 202” from the description. As CHINA 201 or 202 are not co-requisites, it was decided that this language is misleading, and that this calendar description should be replaced with advising to encourage students to take CHINA 250 while also taking CHINA 201 or 202.
3. We are removing the sentence, “Note: Not open to students with credit in CHINA 208” because CHINA 208 has not been offered for at least ten years, and there are no current undergraduates who will have had credit in the course.
4. The sentence, “Cannot be taken for credit when a student has previously taken EASIA 201.” is added to allow for the change in course code.

## Calendar Copy

<b>Current:</b> (Include all parts of course)	<b>Proposed:</b> CHINA 250
<b>Subject &amp; Number</b>	<b>Subject &amp; Number</b> CHINA 250
<b>Title</b>	<b>Title</b> Overview of the Chinese Language System
<b>Course Career</b>	<b>Course Career</b> Undergraduate
<b>Units</b>	<b>Units</b> 3
<b>Approved Hours</b>	<b>Approved Hours</b> 3-0-0
<b>Fee index</b>	<b>Fee index</b> 6
<b>Faculty</b>	<b>Faculty</b> Arts
<b>Department</b>	<b>Department</b> East Asian Studies
<b>Typically Offered</b>	<b>Typically Offered</b> Fall term

**Description**

**Description**

Discussion of basic features of the Chinese language.  
Prerequisite: CHINA 102 or consent of Department.  
Cannot be taken for credit when a student has previously taken EASIA 201.

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Christopher Lupke
Department/Unit Approval Date:	October 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

CHINA 301 currently lists CHNIA 202 and CHINA 208 as prerequisites for the course. This calendar change eliminates the language pertaining to CHINA 208 so that CHINA 202 is the only prerequisite for CHINA 301. CHINA 208 is no longer in the catalog and thus cannot be a prerequisite.

In addition, “modem” (currently in existing calendar entry) has been corrected to “modern”

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number CHINA 301  Title Intermediate Chinese 1  Course Career Undergraduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Arts Department East Asian Studies Typically Offered Fall term  Description  Continuing study of spoken and written modern standard Chinese. Conversation and composition are integrated with reading and discussion of texts of modern Chinese prose, fiction, and other kinds of writing. Prerequisite: CHINA 202 <b>and 208</b> , or consent of Department.	Subject & Number CHINA 301  Title Intermediate Chinese 1  Course Career Undergraduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Arts Department East Asian Studies Typically Offered Fall term  Description  Continuing study of spoken and written modern standard Chinese. Conversation and composition are integrated with reading and discussion of texts of modern Chinese prose, fiction, and other kinds of writing. Prerequisite: CHINA 202, or consent of Department.

<b>Faculty of Arts</b>	<b>Department of East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Christopher Lupke
Department/Unit Approval Date:	October 6, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This is a paired new-course creation of CHINA 250 and a deletion of EASIA 201; in effect, we are changing the course code, and have been advised that this should be done with one new course creation, and one course deletion. Details are below.

1. Course designation and number are being changed from EASIA 201 to CHINA 250. This course is being taught as a Mandarin-language course; all Mandarin-language courses use the subject code CHINA, not EASIA. The instructor who teaches this course on an occasional basis did not understand the difference in descriptors, and other faculty did not catch it until now.
2. We are removing the sentence “Designed to be taken concurrently with CHINA 201 or 202” from the description. As CHINA 201 or 202 are not co-requisites, it was decided that this language is misleading, and that this calendar description should be replaced with advising to encourage students to take CHINA 250 while also taking CHINA 201 or 202.
3. We are removing the sentence, “Note: Not open to students with credit in CHINA 208” because CHINA 208 has not been offered for at least ten years, and there are no current undergraduates who will have had credit in the course.
4. The sentence, “Cannot be taken for credit when a student has previously taken EASIA 201.” is added to allow for the change in course code.

## Calendar Copy

<b>Current:</b> <b>EASIA 201</b> (Include all parts of course)	<b>Proposed:</b>
<b>Subject &amp; Number</b> <b>EASIA 201</b>	<b>Subject &amp; Number</b>
<b>Title</b> <b>Overview of the Chinese Language System</b>	<b>Title</b>
<b>Course Career</b> <b>Undergraduate</b>	<b>Course Career</b>
<b>Units</b> <b>3</b>	<b>Units</b>
<b>Approved Hours</b> <b>3-0-0</b>	<b>Approved Hours</b>
<b>Fee index</b> <b>6</b>	<b>Fee index</b>
<b>Faculty</b> <b>Arts</b>	<b>Faculty</b>
<b>Department</b> <b>East Asian Studies</b>	<b>Department</b>
<b>Typically Offered</b> <b>Fall term</b>	<b>Typically Offered</b>



**Description**

Discussion of basic features of the Chinese language. Designed to be taken concurrently with CHINA 201 or 202. Note: Not open to students with credit in CHINA 208. Prerequisite: CHINA 102 or consent of Department.

**Description**

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Daniel Fried
Department/Unit Approval Date:	October 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This course is proposed to support our expected new tenure-track hire in Modern or Contemporary Korea, the search for which has just begun. This is an open-field search, and we cannot know at this point which upper-level electives the new hire will want to teach. However, it is a reasonable expectation that we will need to ask them to teach 200-level surveys on both modern and contemporary Korea, and one 300-level course on Korea-Canada relations, broadly understood. Putting these three courses on the books now will ensure that we are properly able to schedule them in the teaching plan, and to have them ready for the new hire when they arrive.

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <del>New language</del>
Subject & Number	<b>EASIA 271</b>
Title	<b>Introduction to Modern Korea</b>
Course Career	<b>Course Career Undergraduate</b>
Units	<b>Units 3</b>
Approved Hours	<b>Approved Hours 3-0-0</b>
Fee index	<b>Fee index 6</b>
Faculty	<b>Faculty Arts</b>
Department	<b>Department East Asian Studies</b>
Typically Offered	<b>Typically Offered either term</b>
Description	<b>Description</b> Survey of the society and culture of modern Korea.

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Daniel Fried
Department/Unit Approval Date:	October 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This course is proposed to support our expected new tenure-track hire in Modern or Contemporary Korea, the search for which has just begun. This is an open-field search, and we cannot know at this point which upper-level electives the new hire will want to teach. However, it is a reasonable expectation that we will need to ask them to teach 200-level surveys on both modern and contemporary Korea, and one 300-level course on Korea-Canada relations, broadly understood. Putting these three courses on the books now will ensure that we are properly able to schedule them in the teaching plan, and to have them ready for the new hire when they arrive.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	<b>EASIA 272</b>
Title	<b>Introduction to Contemporary Korea</b>
Course Career	<b>Course Career Undergraduate</b>
Units	<b>Units 3</b>
Approved Hours	<b>Approved Hours 3-0-0</b>
Fee index	<b>Fee index 6</b>
Faculty	<b>Faculty Arts</b>
Department	<b>Department East Asian Studies</b>
Typically Offered	<b>Typically Offered either term</b>
Description	<b>Description</b> Survey of the society and culture of contemporary Korea.

## Calendar Change Request Form - Course Changes

<b>Faculty of Arts</b>	<b>Department of East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Christopher Lupke
Department/Unit Approval Date:	October 2023

### Rationale

Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders

This course addresses supernatural and fantastic themes and imagery in premodern Chinese literature, including examples from folklore, poetry, drama, religious literature, and narrative. It will fill a gap between introductory surveys in East Asian Studies and more specialized, advanced courses in Chinese literature and culture. In addition to surveying a variety of genres across a long period of time, the course will also invite students to consider different perspectives on the definition of ‘fiction’ throughout history, examine techniques of cross-genre, cross-media, and cross-cultural adaptation, and analyze the reuse of premodern images and themes in contemporary popular culture. It will complement courses within the department on supernatural themes in Japanese literature and East Asian religions, and popular courses on witchcraft and folklore offered in other departments.

Note: it is not possible to be more precise in the description than saying “the earliest times”. Supernatural tales in Chinese civilization are generally thought to have “taken off” in the early medieval period, but there are earlier examples from the Han dynasty, the Warring States, or even the early Zhou dynasty. Depending on how a given instructor might wish to teach the course, Shang dynasty oracle bone inscriptions might even be reasonably included. It would be up to a given instructor’s discretion as to what materials might be appropriate for the first 1-2 weeks of the course. Rather than try to squeeze in an essay into the description about the nature of ancient Chinese textuality and genre-formation, the phrase “the earliest times” is used as a shorthand, in line with common practice in Sinology.

### Calendar Copy

Current: <span style="background-color: yellow;">Removed language</span> (include all parts of course)	Proposed: <span style="background-color: yellow;">New language</span>
Subject & Number	<span style="background-color: yellow;">Subject &amp; Number: EASIA 348</span>
Title	<span style="background-color: yellow;">Title: The Chinese Supernatural</span>
Course Career	<span style="background-color: yellow;">Course Career: Undergraduate</span>
Units	<span style="background-color: yellow;">Units: 3</span>
Approved Hours	<span style="background-color: yellow;">Approved Hours: 3-0-0</span>
Fee index	<span style="background-color: yellow;">Fee index: 6</span>
Faculty	<span style="background-color: yellow;">Faculty: Arts</span>
Department	<span style="background-color: yellow;">Department: East Asian Studies</span>
Typically Offered	<span style="background-color: yellow;">Typically Offered: either term</span>
	<span style="background-color: yellow;">Representations of the supernatural in Chinese</span>

Description	literature, from the earliest times to the present. Prerequisites: EASIA 101 and 3 UNITS in EASIA at the senior level, or consent of the department. All readings in English.
-------------	---

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Daniel Fried
Department/Unit Approval Date:	October 6, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This is proposal for a twinned course with FS 369, which has the same description. A faculty member within the East Asian Studies department has offered to take on the course in the future, contingent upon the agreement between English & Film Studies and East Asian Studies that this will be a twinned course between the two departments going forward. Both departments are in agreement that this collaboration would be mutually beneficial, and in line with institutional priorities for sharing of teaching resources.

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <del>New language</del>
Subject & Number	<b>EASIA 369</b>
Title	<b>Title: East Asian Cinema</b>
Course Career	<b>Course Career: Undergraduate</b>
Units	<b>Units: 3</b>
Approved Hours	<b>Approved Hours: 3-0-2.5</b>
Fee index	<b>Fee Index: 6</b>
Faculty	<b>Faculty: Arts</b>
Department	<b>Department East Asian Studies</b>
Typically Offered	<b>Typically Offered: Either Term</b>
Description	<b>Description: Survey of East Asian cinemas such as those of mainland China, Taiwan, Hong Kong, Japan, and South Korea.</b> <b>Prerequisite: FS 100 or EASIA 101</b>

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Daniel Fried
Department/Unit Approval Date:	October 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This course is proposed to support our expected new tenure-track hire in Modern or Contemporary Korea, the search for which has just begun. This is an open-field search, and we cannot know at this point which upper-level electives the new hire will want to teach. However, it is a reasonable expectation that we will need to ask them to teach 200-level surveys on both modern and contemporary Korea, and one 300-level course on Korea-Canada relations, broadly understood. Putting these three courses on the books now will ensure that we are properly able to schedule them in the teaching plan, and to have them ready for the new hire when they arrive.

This particular course, on the relationship of Korea and Canada in any sphere, political, social, or cultural, is added in order to mark the 60<sup>th</sup> anniversary of the establishment of diplomatic ties. The teaching of such a course was part of a funding proposal submitted to the Korea Foundation.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	<b>EASIA 374</b>
Title	<b>Korea-Canada Relations</b>
Course Career	<b>Course Career Undergraduate</b>
Units	<b>Units 3</b>
Approved Hours	<b>Approved Hours 3-0-0</b>
Fee index	<b>Fee index 6</b>
Faculty	<b>Faculty Arts</b>
Department	<b>Department East Asian Studies</b>
Typically Offered	<b>Typically Offered either term</b>
Description	<b>Description</b> Examination of the political, economic, social, or cultural relationship between Korea and Canada.

<b>Faculty of Arts</b>	<b>East Asian Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	William Carroll
Department/Unit Approval Date:	October 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This class studies the historical context of cinephilia in Japan from which “J-horror,” a subset of Japanese horror since the 1990s, emerged. We will also analyze the contemporary J-horror canon in light of the filmmakers' own writings on film. We will also watch films that these filmmakers have written about alongside their own writings about them. In so doing, we will be tracing the lineage of cinephilia in Japan as an intellectual discourse, looking at the relationship between film theory and film production in contemporary Japan, and looking at J-horror from the perspective of filmmakers themselves. Students will learn to analyze films in terms of formal construction and the ways that they can structure the responses that they elicit from spectators (i.e., how they scare people). They will also learn about the history of cinephile culture in Japan and its connection to contemporary Japanese film production.

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <del>New language</del>
Subject & Number	<b>Subject &amp; Number EASIA 461</b>
Title	<b>Title Occult Cinephilia: Contemporary Japanese Horror in Film</b>
Course Career	<b>Course Career Undergraduate</b>
Units	<b>Units 3</b>
Approved Hours	<b>Approved Hours 3-0-2.5</b>
Fee index	<b>Fee Index 6</b>
Faculty	<b>Faculty Arts</b>
Department	<b>Department East Asian Studies</b>
Typically Offered	<b>Typically offered either term</b>
Description	<b>Seminar on the horror genre in Japan since the 1990s. Readings focus on translated writings by prominent Japanese filmmakers, critics, and theorists associated with “J-horror,” viewings include canonical “J-horror” films as well as locally influential television and video work, and international horror films that “J-horror” filmmakers write about. Prerequisite: EASIA 101 or FS 100</b>



<b>Faculty of Arts</b>	<b>History, Classics and Religion</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Josie Hendrickson (jnhendri@ualberta.ca)
Department/Unit Approval Date:	October 13.2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

**RELIG 220 & 222** The two most recent offerings of RELIG 220 (W22 and W23) have resulted in student complaints, including a damaging public campaign against the course conducted by the UofA Muslim Students' Association from January to May 2023. These students objected to certain academic, historical approaches to the study of Islam. We have temporarily suspended the course and seek to reintroduce it with a new number, title, and description. These changes will disassociate the new version of the course from the old one and make clearer that this is an academic course taught from a historical, non-religious perspective. In addition, we are adding a prerequisite to ensure that students have adequate preparation for the course.

These changes were discussed in a meeting of the Religious Studies faculty and the department chair prior to drafting this proposal.

**RELIG 320** This 300-level course has not previously required a prerequisite, and has attracted many students who are unprepared for a RELIG course at this level. One student in the Winter 2023 iteration of this course reported religious bullying prior to class and specifically requested that a prerequisite be added to this course. In addition to adding a prerequisite, the description has been updated to better reflect course content.

**RELIG 422** The prerequisite for this 400-level course has not been worded effectively. This change creates a more specific definition for the prerequisite that should prevent registration by students with no prior courses in RELIG. Initially, RELIG 220 (Introduction to Islam) and RELIG 222 (History of Islam) will be listed as possible prerequisites, along with any 300-level course in RELIG.

This proposal was approved by the Religious Studies faculty on 4 October 2023.

[https://calendar.ualberta.ca/search\\_advanced.php?cur\\_cat\\_oid=39&search\\_database=Search&search\\_db=Search&page=1&ecpage=1&ppage=1&spage=1&tpage=1&location=33&filter%5Bkeyword%5D=relig&filter%5Bexact\\_match%5D=1](https://calendar.ualberta.ca/search_advanced.php?cur_cat_oid=39&search_database=Search&search_db=Search&page=1&ecpage=1&ppage=1&spage=1&tpage=1&location=33&filter%5Bkeyword%5D=relig&filter%5Bexact_match%5D=1)

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
---	--------------------------------------

**RELIG 220 – Introduction to Islam**

**Course Career:** Undergraduate

**Units:** 3

**Approved Hours:** 3-0-0

**Fee index:** 6

**Faculty:** Arts

**Department:** History, Classics, & Religion

**Typically Offered:** either term

**Description**

A survey of the main elements of the Muslim tradition and their role in the formation of Islamic culture.

**RELIG 320 – The Qur’an**

**Course Career:** Undergraduate

**Units:** 3

**Approved Hours:** 3-0-0

**Fee index:** 6

**Faculty:** Arts

**Department:** History, Classics, & Religion

**Typically Offered:** either term

**Description**

**RELIG 222 – History of Islam**

**Course Career:** Undergraduate

**Units:** 3

**Approved Hours:** 3-0-0

**Fee index:** 6

**Faculty:** Arts

**Department:** History, Classics, & Religion

**Typically Offered:** either term

**Description**

A study of the emergence and development of Islamic religious traditions in historical perspective. Prerequisite: One course in RELIG or consent of the instructor. Not open to students with credit in RELIG 220.

**RELIG 320 – The Qur’an**

**Course Career:** Undergraduate

**Units:** 3

**Approved Hours:** 3-0-0

**Fee index:** 6

**Faculty:** Arts

**Department:** History, Classics, & Religion

**Typically Offered:** either term

**Description**

The style, structure, and doctrine of the Qur'an in the light of the Western critical evaluation of the text.

**RELIG 422 – Advanced Studies in Islam**

**Course Career:** Undergraduate

**Units:** 3

**Approved Hours:** 0-3s-0

**Fee index:** 6

**Faculty:** Arts

**Department:** History, Classics, & Religion

**Typically Offered:** either term

**Description**

Prerequisite: one course in Islam or consent of Program Coordinator.

The history and contents of the Qur'an, including a critical comparison of the Qur'an and biblical literature. Prerequisite: One course in RELIG or consent of the instructor.

**RELIG 422 – Advanced Studies in Islam**

**Course Career:** Undergraduate

**Units:** 3

**Approved Hours:** 0-3s-0

**Fee index:** 6

**Faculty:** Arts

**Department:** History, Classics, & Religion

**Typically Offered:** either term

**Description**

Prerequisite: RELIG 220, RELIG 222, or 3 units in RELIG at the 300-level, or consent of instructor. May be repeated if course content varies.

<b>Faculty of Arts</b>	<b>Linguistics</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Grace Jamieson (gjamies0@ualberta.ca)
Department/Unit Approval Date:	Dept Meeting: October 23, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Prosody, i.e. the melody and rhythm of speech, is an important component of language, performing such crucial functions as distinguishing statements from statements, highlighting new or important information and chunking speech into units for production, processing and interpretation. Moreover, like other areas of grammar, prosody differs cross-linguistically, making it both an important and an interesting subject of inquiry for linguists. Accordingly, while prosody research has practically exploded as a field of study since it was properly recognized as an area of linguistics in the second half of the 20<sup>th</sup> century. However, even though prosody is an important aspect of speech, it usually receives at best cursory mention in classes on phonetics and phonology, which instead focus on non-prosodic (segmental) aspects of spoken language. Therefore, our students currently do not learn about this central area of language in regularly taught courses.

This course has previously been taught as LING 499/599 in Winter 2017 (enrollment: 5 + 5 students), Winter 2018 (8 + 1 students) and Fall 2023 (3 + 8 students). It received positive evaluations from students, e.g. in Winter 2017, the average rating for "Overall, the quality of the course content was excellent" was 4.0 and for "I increased my knowledge of the subject areas in this course", it was 4.5. No numeric assessments are available for 2018, since only 5 responses were received, or for 2023, since instruction is still ongoing, but evaluative comments suggest that students found the class both useful (e.g. appreciating "The wide range of content we explored; from prosodic emotions, and especially typological variation", 2018) and engaging (e.g. "I found myself talking about lectures for about an hour after every class", 2018).

Making this into a regular class with a dedicated course number will therefore benefit students, who will learn about an important area of linguistics. In addition, the class teaches them practical and transferable skills such as experimental design, presentation, and academic writing. Finally, adding this course will expand the number of (semi) regularly-taught higher-level linguistics classes, which will benefit students by adding more choice and flexibility to them, thereby also benefitting the department.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	Subject & Number: <b>LING 418</b>
Title	Title: <b>Prosody</b>
Course Career	Course Career: <b>Undergraduate</b>
Units	Units: <b>3</b>
Approved Hours	Approved Hours: <b>3-0-0</b>
Fee index	Fee index: 6
Faculty	Faculty: <b>Arts</b>
Department	Department: <b>Linguistics</b>
Typically Offered	Typically Offered: <b>Either term</b>

Description	Description: Introduction to prosody, i.e. the rhythm and melody of speech (e.g. stress and accentuation), including functions of prosody, basics of its linguistic analysis and practical skills for conducting experimental prosody research. Prerequisite: LING 205 or consent of the department.
-------------	--

<b>Faculty of Arts</b>	<b>Linguistics</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Grace Jamieson (gjamies0@ualberta.ca)
Department/Unit Approval Date:	LING Department Council Mtg/October 23, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This course was cancelled in error on September 1, 2023 and we need to get it reinstated so we can offer it in 2024-25.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	<b>Subject &amp; Number: LING 420</b>
Title	<b>Title: Phonological Acquisition</b>
Course Career	<b>Course Career: Undergraduate</b>
Units	<b>Units: 3</b>
Approved Hours	<b>Approved Hours:3-0-0</b>
Fee index	<b>Fee index: 6</b>
Faculty	<b>Faculty: Arts</b>
Department	<b>Department: Linguistics</b>
Typically Offered	<b>Typically Offered: either term</b>
Description	<b>Description: An overview of data, theories and methodologies in the study of phonological development, including L1 and L2 production and perception. Prerequisite: LING 310.</b>

<b>Faculty of Arts</b>	<b>Linguistics</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Jordan Lachler
Department/Unit Approval Date:	Oct 23, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

The purpose of these course title changes is to make it easier for current and potential CILLDI students to understand what the courses are about, and to shorten them so they are easier to list on promotional materials. Including "CILLDI" in the course title makes it clearer that these courses are only open to students in the CILLDI program, and helps to disambiguate them from other similarly named undergraduate courses offered in the Department of Linguistics.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number: LING 111  Title: <b>Intro to Linguistic Analysis for Language Revitalization</b>  Course Career: Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: 6 Faculty: Arts Department: Linguistics Typically Offered: Spring/Summer  Description: Central concepts of linguistics: linguistic categories and structure (phonetics, phonology, morphology, syntax, semantics) with special attention to Canadian Indigenous languages. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 101.  Subject & Number: LING 211  Title: <b>Phonetics of Indigenous Languages</b>  Course Career: Undergraduate	Subject & Number: LING 111  Title: <b>CILLDI: Linguistics for Language Revitalization</b>  Course Career: Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: 6 Faculty: Arts Department: Linguistics Typically Offered: Spring/Summer  Description: Central concepts of linguistics: linguistic categories and structure (phonetics, phonology, morphology, syntax, semantics) with special attention to Canadian Indigenous languages. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 101.  Subject & Number: LING 211  Title: <b>CILLDI: Describing Sounds and Sound Patterns</b>

Units: 3  
Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts  
Department: Linguistics  
Typically Offered: Spring/Summer

Description:  
Recognizing, transcribing, and producing speech sounds using the International Phonetic Alphabet; problems in phonetic analysis; elementary acoustic phonetics; techniques for describing the sound system of Canadian Indigenous languages.  
Prerequisite: LING 101 or 111. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 205.

Subject & Number: LING 212

Title: **Morphosyntax of Indigenous Languages**

Course Career: Undergraduate  
Units: 3  
Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts  
Department: Linguistics  
Typically Offered: Spring/Summer

Description:  
Morphological structure and meaning in Canadian Indigenous languages, including how best to represent lexical meaning and form in a dictionary, how new words might be coined, and how these languages with their complex morphology and verb systems might be taught to adult learners.  
Prerequisite: LING 101 or LING 111. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 308 or 309.

Subject & Number: LING 213

Title: **Sentence and Discourse Patterns of Indigenous Languages**

Course Career: Undergraduate  
Units: 3

Course Career: Undergraduate  
Units: 3  
Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts  
Department: Linguistics  
Typically Offered: Spring/Summer

Description:  
Recognizing, transcribing, and producing speech sounds using the International Phonetic Alphabet; problems in phonetic analysis; elementary acoustic phonetics; techniques for describing the sound system of Canadian Indigenous languages.  
Prerequisite: LING 101 or 111. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 205.

Subject & Number: LING 212

Title: **CILLDI: Describing Word and Sentence Patterns I**

Course Career: Undergraduate  
Units: 3  
Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts  
Department: Linguistics  
Typically Offered: Spring/Summer

Description:  
Morphological structure and meaning in Canadian Indigenous languages, including how best to represent lexical meaning and form in a dictionary, how new words might be coined, and how these languages with their complex morphology and verb systems might be taught to adult learners.  
Prerequisite: LING 101 or LING 111. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 308 or 309.

Subject & Number: LING 213

Title: **CILLDI: Describing Word and Sentence Patterns II**

Course Career: Undergraduate  
Units: 3



Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts  
Department: Linguistics  
Typically Offered: Spring/Summer

Description:

Types of sentence and discourse patterns in Canadian Indigenous languages; attention to real language use across different genres (e.g. traditional stories, conversation, personal narratives, oratory and ceremony) so that CLC students can go on to collect and transcribe samples of language in context rather than word lists or sentences in isolation. Prerequisite: LING 101 or LING 111. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 308 or 309.

Subject & Number: INT D 311

Title: ~~Language Policy and Planning for Indigenous Language Communities~~

Course Career: Undergraduate

Units: 3

Approved Hours: 3-0-0

Fee index: 6

Faculty: Arts, Education and Native Studies

Department: Interdisciplinary Studies

Typically Offered: Spring/Summer

Description:

Language use and attitudes about language within the socio-cultural context of Canadian Indigenous communities. Addresses issues surrounding the health and survivability of Indigenous languages in different types of family, community, and school contexts. Special attention given to Indigenous language advocacy at the family, band, national, and international levels. Training in effective grant-writing techniques included. Restricted to CILLDI program students. (Offered jointly by the following faculties: Arts; Education; and Native Studies.) Prerequisite: LING 101 or LING 111. [Linguistics]

Subject & Number: INTD 318

Title: ~~Technologies for Endangered Language Documentation~~

Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts  
Department: Linguistics  
Typically Offered: Spring/Summer

Description:

Types of sentence and discourse patterns in Canadian Indigenous languages; attention to real language use across different genres (e.g. traditional stories, conversation, personal narratives, oratory and ceremony) so that CLC students can go on to collect and transcribe samples of language in context rather than word lists or sentences in isolation. Prerequisite: LING 101 or LING 111. Restricted to CILLDI program students. Note: Not to be taken by students with credit in LING 308 or 309.

Subject & Number: INT D 311

Title: CILLDI: Planning for Language Sustainability

Course Career: Undergraduate

Units: 3

Approved Hours: 3-0-0

Fee index: 6

Faculty: Arts, Education and Native Studies

Department: Interdisciplinary Studies

Typically Offered: Spring/Summer

Description:

Language use and attitudes about language within the socio-cultural context of Canadian Indigenous communities. Addresses issues surrounding the health and survivability of Indigenous languages in different types of family, community, and school contexts. Special attention given to Indigenous language advocacy at the family, band, national, and international levels. Training in effective grant-writing techniques included. Restricted to CILLDI program students. (Offered jointly by the following faculties: Arts; Education; and Native Studies.) Prerequisite: LING 101 or LING 111. [Linguistics]

Subject & Number: INTD 318

Title: CILLDI: Technologies for Language Documentation

Course Career: Undergraduate  
Units: 3  
Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts, Education and Native Studies  
Department: Interdisciplinary Studies  
Typically Offered: Spring/Summer

Description:

Provides Canadian Indigenous language speakers with the technical skills needed to digitally archive their languages in a database or on the web with text, sound, images, and video. These digital resources can be incorporated into interactive multimedia resources for access by community-based learners and second-language teachers. Restricted to CILLDI program students. (Offered jointly by the following faculties: Arts; Education; and Native Studies.) Prerequisite: LING 101 or LING 111. Note: Not to be taken by students with credit in LING 399 (Techniques for Endangered Language Documentation) or NS 380 (Technologies for Endangered Language Documentation). [Linguistics]

Course Career: Undergraduate  
Units: 3  
Approved Hours: 3-0-0  
Fee index: 6  
Faculty: Arts, Education and Native Studies  
Department: Interdisciplinary Studies  
Typically Offered: Spring/Summer

Description:

Provides Canadian Indigenous language speakers with the technical skills needed to digitally archive their languages in a database or on the web with text, sound, images, and video. These digital resources can be incorporated into interactive multimedia resources for access by community-based learners and second-language teachers. Restricted to CILLDI program students. (Offered jointly by the following faculties: Arts; Education; and Native Studies.) Prerequisite: LING 101 or LING 111. Note: Not to be taken by students with credit in LING 399 (Techniques for Endangered Language Documentation) or NS 380 (Technologies for Endangered Language Documentation). [Linguistics]

<b>Faculty of Arts</b>	<b>St. Joseph's College</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Sara McKeon, sjcdean@ualberta.ca
Department/Unit Approval Date:	SJC Faculty Council, October 18, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<ul style="list-style-type: none"> <li>New course description more accurately reflects the course content.</li> </ul>
---

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
CHRTC 100  The Bible: An Introduction  Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: 6 St. Joseph's College Either term  <del>The history and theology of the Old Testament and New Testament.</del>	CHRTC 100  The Bible: An Introduction  Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: 6 St. Joseph's College Either term  A study of the Christian Bible: its texts, historical and literary contexts, major themes and genres, and the relationship between biblical interpretation, theology, and the Christian life.

<b>Faculty of Arts</b>	<b>St. Joseph's College</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Sara McKeon, sjcdean@ualberta.ca
Department/Unit Approval Date:	SJC Faculty Council, October 18, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<ul style="list-style-type: none"> <li>New course description more accurately reflects the course content.</li> </ul>
---

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
CHRTC 220  Sport and Religion Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: 6 St. Joseph's College Either term  <del>An investigation into past and contemporary interplay between sport and religion from a Christian perspective.</del>	CHRTC 220  Sport and Religion Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: 6 St. Joseph's College Either term  An overview of the relationship between sport and religion, primarily from a Christian perspective. Topics may include the history of religion in sport, sport as a religion, play as a religious and sporting action, prayer in sport, ethics of competition, and social justice in sport.

<b>Faculty of Arts</b>	<b>St. Joseph's College</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Sara McKeon, sjcdean@ualberta.ca
Department/Unit Approval Date:	SJC Faculty Council, October 18, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Proposal for a new course: <ul style="list-style-type: none"> <li>• Currently no course offered on this subject matter.</li> <li>• 300 level course as follow-up to more introductory 100 and 200 level courses.</li> </ul>
---

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
	<b>CHRTC 357</b>  <b>The Sacraments</b>  <b>Undergraduate</b> <b>Units: 3</b> <b>Approved Hours: 3-0-0</b> <b>Fee index: 6</b> <b>St. Joseph's College</b> <b>Either term</b>  <b>A study of the theology and ritual practice of the sacraments in the Roman Catholic tradition.</b>

<b>Faculty of Arts</b>	<b>Women's and Gender Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Lise Gotell <a href="mailto:gotell@ualberta.ca">gotell@ualberta.ca</a> Grace Jamieson <a href="mailto:gjamies0@ualberta.ca">gjamies0@ualberta.ca</a>
Department/Unit Approval Date:	October 11, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This is a new course that reflects the primary area of research of one of the department's faculty members. It will be an upper level course that is cross-listed as an undergraduate and graduate course to provide all students, but especially the growing international student population within the department, a course that surveys WGS theoretical contributions and scholarship beyond the usual North American focus. This course places women, feminism, and activism in an international and transnational perspective and offers students the opportunity to examine how issues considered critical to the field of women's and gender studies are impacting people's lives globally in contemporary national contexts. It will not only look closely at how violence, economic marginality, intersections of race and gender, and varied strategies for development are affecting women in specific geographical locations, but we will also study how they organize within and across borders to combat these issues. A version of this course has been taught for the past three years in Winter term (WGS 298 Critical Issues). This course will serve not only students in WGS, but also students from disciplines across campus including political science, philosophy, and sociology.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	Subject & Number: <b>WGS 450</b>
Title	Title: <b>Transnational Feminism</b>
Course Career	Course Career: <b>Undergraduate</b>
Units	Units: <b>3</b>
Approved Hours	Approved Hours: <b>3</b>
Fee index	Fee index: <b>6</b>
Faculty	Faculty: <b>Arts</b>
Department	Department: <b>Women's and Gender Studies</b>
Typically Offered	Typically Offered: <b>either term</b>
Description	Description: <b>This course engages in women's issues globally and across nations. Topics may include feminist theorizing, women's movements, development, human rights, reproductive politics and social governance. Prerequisite: Any 100 or 200 level WGS or consent of department.</b>

<b>Faculty of Arts</b>	<b>Women's and Gender Studies</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Lise Gotell <a href="mailto:gotell@ualberta.ca">gotell@ualberta.ca</a> Grace Jamieson <a href="mailto:gjamies0@ualberta.ca">gjamies0@ualberta.ca</a>
Department/Unit Approval Date:	October 11, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This is a new course that reflects the primary area of research of one of the department's faculty members. It will be an upper level course that is cross-listed as an undergraduate and graduate course to provide all students, but especially the growing international student population within the department, a course that surveys WGS theoretical contributions and scholarship beyond the usual North American focus. This course places women, feminism, and activism in an international and transnational perspective and offers students the opportunity to examine how issues considered critical to the field of women's and gender studies are impacting people's lives globally in contemporary national contexts. It will not only look closely at how violence, economic marginality, intersections of race and gender, and varied strategies for development are affecting women in specific geographical locations, but we will also study how they organize within and across borders to combat these issues. A version of this course has been taught for the past three years in Winter term (WGS 298 Critical Issues). This course will serve not only students in WGS, but also students from disciplines across campus including political science, philosophy, and sociology.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	Subject & Number: <b>WGS 450</b>
Title	Title: <b>Transnational Feminism</b>
Course Career	Course Career: <b>Undergraduate</b>
Units	Units: <b>3</b>
Approved Hours	Approved Hours: <b>3</b>
Fee index	Fee index: <b>6</b>
Faculty	Faculty: <b>Arts</b>
Department	Department: <b>Women's and Gender Studies</b>
Typically Offered	Typically Offered: <b>either term</b>
Description	Description: <b>This course provides a deeper understanding of women's issues globally and across nations. Topics may include feminist theorizing, women's movements, development, human rights, reproductive politics and social governance.</b> Prerequisite: <b>Any 100 or 200 level WGS or consent of department.</b>





This package contains: [Undergraduate - Courses](#)

---

Faculty approval date:

AAC Date: November 21, 2023
-----------------------------

---

Page	Department or Unit	What is Changing
2	Drama	306, 334, 344, 345, 355, 357, 361, 383, 391, 392, 394, 402, 406, 409, 434, 435, 444, 452, 453, 454, 455, 457, 483, 490, 492, 494, 534, 535, 544, 545, 590, 596,

<b>Faculty of Arts</b>	<b>Drama</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Diane McKen
<b>Department/Unit Approval Date:</b>	November 9, 2023

**Rationale for change** (Indicate other consultation groups, **Departments**, units or faculties)

Removing restrictions and prerequisite (courses) that have been inactive for 20 years.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
<p><b>DRAMA 306 - Historical Approaches to Western Dramatic and Theatrical Theories</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Arts  <b>Department</b> Drama  <b>Typically Offered</b> either term</p> <p><b>Description</b>            Critical theories from Aristotle to Artaud. Pre- or corequisite: DRAMA 308 or consent of Department.            Note: Required for BA (Honors) Drama students.  <del>Note: Not to be taken by students with credit in DRAMA 405 and 508.</del></p> <p><b>DRAMA 334 - Beginning Movement</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 6  <b>Approved Hours</b> 0-8L-0  <b>Fee index</b> 12  <b>Faculty</b> Arts  <b>Department</b> Drama  <b>Typically Offered</b> two term</p> <p><b>Description</b>            Techniques in ballet and period style for the actor. Exploration of creative forms of movement and the</p>	<p><b>DRAMA 306 - Historical Approaches to Western Dramatic and Theatrical Theories</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Arts  <b>Department</b> Drama  <b>Typically Offered</b> either term</p> <p><b>Description</b>            Critical theories from Aristotle to Artaud. Pre- or corequisite: DRAMA 308 or consent of Department.            Note: Required for BA (Honors) Drama students.</p> <p><b>DRAMA 334 - Beginning Movement</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 6  <b>Approved Hours</b> 0-8L-0  <b>Fee index</b> 12  <b>Faculty</b> Arts  <b>Department</b> Drama  <b>Typically Offered</b> two term</p> <p><b>Description</b>            Techniques in ballet and period style for the actor. Exploration of creative forms of movement and the</p>

physical self in characterization. Note: Restricted to BFA Acting. ~~Not to be taken by students with credit in DRAMA 336 or 338.~~

### **DRAMA 344 - Voice and Speech**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-8L-0  
**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Introduction to voice and speech improvement; oral interpretation; exploration of the voice for characterization; singing. Note: Restricted to BFA Acting students. ~~Not to be taken by students with credit in DRAMA 346 or 348.~~

### **DRAMA 345 - Speech in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 2  
**Approved Hours** 0-0-1  
**Fee index** 4  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Note: Restricted to BFA Acting students. This is a credit-fail course.

### **DRAMA 355 - Acting in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 2  
**Approved Hours** 0-0-3  
**Fee index** 4  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Note: Restricted to BFA Acting students.

### **DRAMA 357 - Scene Study II**

**Course Career** Undergraduate  
**Units** 3

physical self in characterization. Note: Restricted to BFA (Acting) students.

### **DRAMA 344 - Voice and Speech**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-8L-0  
**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Introduction to voice and speech improvement; oral interpretation; exploration of the voice for characterization; singing. Note: Restricted to BFA (Acting) students.

### **DRAMA 345 - Speech in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 2  
**Approved Hours** 0-0-1  
**Fee index** 4  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Note: Restricted to BFA (Acting) students. This is a credit-fail course.

### **DRAMA 355 - Acting in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 2  
**Approved Hours** 0-0-3  
**Fee index** 4  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Note: Restricted to BFA (Acting) students.

### **DRAMA 357 - Scene Study II**

**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**

Acting exercises based on the study of plays emphasizing complexity of language and characterization. Prerequisites: DRAMA 102 or 103, and 240 and 257, and a Theatre History course from the Department of Drama course listings; and/or consent of Department. ~~Note: Not to be taken by students with credit in DRAMA 453.~~

**DRAMA 361 - Playwriting**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** first term

**Description**

Study of and practice in the creation of a play for the theatre. Prerequisite: DRAMA 101 or one of DRAMA 102, 103, 149, or 150 or consent of Department. ~~Note: Not to be taken by students with credit in DRAMA 360 or 407 in playwriting.~~

**DRAMA 383 - Introduction to Directing**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**

Fundamentals of directing explored through practical exercises. Prerequisites: ~~One of~~ DRAMA 257, 370, 378 and/or consent of Department. Note: Priority given to BA Drama Majors, BA (Honors) Drama students, BEd (Secondary) Drama Majors, and BFA (Theatre Design; Technical Theatre; Stage Management) students.

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**

Acting exercises based on the study of plays emphasizing complexity of language and characterization. Prerequisites: DRAMA 102 or 103, and 240 and 257, and one of DRAMA 208, 302, 306, 308 or 312; or consent of Department.

**DRAMA 361 - Playwriting**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** first term

**Description**

Study of and practice in the creation of a play for the theatre. Prerequisite: DRAMA 101 or one of DRAMA 102, 103, 149, or 150 or consent of Department.

**DRAMA 383 - Introduction to Directing**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**

Fundamentals of directing explored through practical exercises. Prerequisite: DRAMA 257 or consent of Department. Note: Priority given to BA Drama Majors, BA (Honors) Drama students, BEd (Secondary) Drama Majors, and BFA (Production) Design Route; Stage Management; Technical Production students.

**DRAMA 391 - Production Lab I**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-8L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description**

Technical theatre practice. Preparation and running of the production aspects of Departmental plays.  
 Prerequisite: DRAMA 279 or consent of Department.

Note: Not to be taken by students with credit in DRAMA 191.

**DRAMA 392 - Production Lab II**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-6  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** variable

**Description**

Production experience in stage managing and/or technical theatre with qualified technical experts.  
 Prerequisites: DRAMA 191, 391, and/or consent of Department.

**DRAMA 394 - Production Techniques - Sound**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** second term

**Description**

Theory and practical application of audio equipment and sound design for the theatre. Note: Restricted to BFA Drama (Technical Theatre) students.

**DRAMA 402 - Tutorial Fourth-Year Honors Essay**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** UNASSIGNED

**DRAMA 391 - Production Lab I**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-8L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description**

Technical theatre practice. Preparation and running of the production aspects of Departmental plays.  
 Prerequisite: DRAMA 279 or consent of Department.

**DRAMA 392 - Production Lab II**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-6  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** variable

**Description**

Production experience in stage managing and/or technical theatre with qualified technical experts.  
 Prerequisite: DRAMA 391, or consent of Department.

**DRAMA 394 - Production Techniques - Sound**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** second term

**Description**

Theory and practical application of audio equipment and sound design for the theatre. Note: Restricted to BFA (Production) Technical Production students.

**DRAMA 402 - Tutorial Fourth-Year Honors Essay**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** UNASSIGNED  
**Fee index** 6

**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** second term

**Description**  
Prerequisite: DRAMA 401. ~~Note: Not to be taken by students with credit in DRAMA 505.~~

### **DRAMA 406 - Contemporary Approaches to Dramatic and Theatrical Theories**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**  
Modernist to contemporary theories applied to dramatic texts in performance. Prerequisite: consent of Department. Note: Required for BA (Honors) Drama students. ~~Not to be taken by students with credit in DRAMA 503 and 509.~~

### **DRAMA 409 - Contemporary Theatre**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**  
Exploration of issues and trends of theatre movements which form the mosaic of contemporary theatre. Prerequisite: ~~A Theatre History course from the Department of Drama course listings,~~ or consent of Department.

### **DRAMA 434 - Theatre Movement**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-8L-0  
**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

**Faculty Arts**  
**Department** Drama  
**Typically Offered** second term

**Description**  
Prerequisite: DRAMA 401.

### **DRAMA 406 - Contemporary Approaches to Dramatic and Theatrical Theories**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**  
Modernist to contemporary theories applied to dramatic texts in performance. Prerequisite: consent of Department. Note: Required for BA (Honors) Drama students.

### **DRAMA 409 - Contemporary Theatre**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**  
Exploration of issues and trends of theatre movements which form the mosaic of contemporary theatre. Prerequisite: One of DRAMA 208, 302, 306, 308 or 312, or consent of Department.

### **DRAMA 434 - Theatre Movement**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-8L-0  
**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**  
Studies of, and projects in styles of movement and dance, both period and contemporary. Prerequisite:

Studies of, and projects in styles of movement and dance, both period and contemporary. Prerequisite: DRAMA 334. Note: Restricted to BFA Acting students. **Not to be taken by students with credit in DRAMA 436 or 438.**

### **DRAMA 435 - Movement in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 2  
**Approved Hours** 0-0-2  
**Fee index** 4  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Note: Restricted to BFA Acting students. This is a credit-fail course.

### **DRAMA 444 - Advanced Voice and Speech**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-6.5L-0  
**Fee index** 12  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Extension of the voice; sight reading, oral interpretation of period dramatic forms; singing. Prerequisite: DRAMA 344. Note: Restricted to BFA Acting students. **Not to be taken by students with credit in DRAMA 446 or 448.**

### **DRAMA 452 - Solo Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

#### **Description**

Advanced theatrical tools to create and present original solo performance. Prerequisite: DRAMA 257 and 259, **and/or** consent of Department.

DRAMA 334. Note: Restricted to BFA **(Acting)** students.

### **DRAMA 435 - Movement in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 2  
**Approved Hours** 0-0-2  
**Fee index** 4  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Note: Restricted to BFA **(Acting)** students. This is a credit-fail course.

### **DRAMA 444 - Advanced Voice and Speech**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-6.5L-0  
**Fee index** 12  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

#### **Description**

Extension of the voice; sight reading, oral interpretation of period dramatic forms; singing. Prerequisite: DRAMA 344. Note: Restricted to BFA **(Acting)** students.

### **DRAMA 452 - Solo Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

#### **Description**

Advanced theatrical tools to create and present original solo performance. Prerequisite: DRAMA 257 and 259, or consent of Department.

**DRAMA 453 - Physical Comedy**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description**

The exploration and practice of physical comedy styles through clown, bouffon, and mask. Prerequisite: DRAMA 259 **and/** or consent of Department.

**DRAMA 454 - Performance Creation**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description**

Exploration, practice, and experimentation in performer-created theatre. Prerequisite: DRAMA 259 **and/** or consent of Department.

**DRAMA 455 - Acting in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-4L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

**Description**

Note: Restricted to BFA Acting students.

**DRAMA 457 - Production/Performance**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-8L-0  
**Fee index** 12  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description****DRAMA 453 - Physical Comedy**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description**

The exploration and practice of physical comedy styles through clown, bouffon, and mask. Prerequisite: DRAMA 259 or consent of Department.

**DRAMA 454 - Performance Creation**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

**Description**

Exploration, practice, and experimentation in performer-created theatre. Prerequisite: DRAMA 259 or consent of Department

**DRAMA 455 - Acting in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-4L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

**Description**

Note: Restricted to BFA **[Acting]** students.

**DRAMA 457 - Production/Performance**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-8L-0  
**Fee index** 12  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term



Research, rehearsal, design, staging and presentation of a play by an acting ensemble. Prerequisites: DRAMA 357 and 391, a Theatre History course from the Department of Drama course listings, and/or consent of Department.

### **DRAMA 483 - Elements of Directing**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

#### **Description**

Developing the director's creative use of the elements of directing through practical exercises in scripted scenes. Prerequisites: DRAMA 102 or 103, 383 and 391, and/or consent of Department.

### **DRAMA 490 - Production Crew II**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-8L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** variable

#### **Description**

Production experience in the preparation for and/or the running of a production for performance. Not to be taken by students with credit in DRAMA 395. Prerequisite: DRAMA 390. Note: Restricted to BFA (Technical Theatre) students.

### **DRAMA 492 - Production Lab III**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-6  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

#### **Description**

Production organization: experience in preparing

#### **Description**

Research, rehearsal, design, staging and presentation of a play by an acting ensemble. Prerequisite: DRAMA 357 and 391, one of DRAMA 208, 302, 306, 308 or 312, and consent of Department.

### **DRAMA 483 - Elements of Directing**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

#### **Description**

Developing the director's creative use of the elements of directing through practical exercises in scripted scenes. Prerequisites: DRAMA 102 or 103, 383 and 391, or consent of Department.

### **DRAMA 490 - Production Crew II**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-8L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** variable

#### **Description**

Production experience in the preparation for and/or the running of a production for performance. Not to be taken by students with credit in DRAMA 395. Prerequisite: DRAMA 390. Note: Restricted to BFA (Production) Technical Production students.

### **DRAMA 492 - Production Lab III**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-6  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

#### **Description**

Production organization: experience in preparing

and running of a play in performance. Prerequisites: DRAMA 392 and/or consent of Department.

#### **DRAMA 494 - Specialized Skills in Stage Management**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

##### **Description**

Skill sets for the practice of Stage Management.  
Note: Restricted to BFA **Technical Theatre** (Stage Management) students. Repeatable (to be taken two years in succession).

#### **DRAMA 534 - Advanced Movement**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-6L-0  
**Fee index** 12  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

##### **Description**

Instruction and projects for individual growth in movement expression. Prerequisite: DRAMA 438.  
Note: Restricted to BFA (**Drama**) students.

#### **DRAMA 535 - Movement in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-3  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

##### **Description**

Note: Restricted to BFA Acting students. This is a credit-fail course

#### **DRAMA 544 - Dialects and Accents/Language Styles**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-7L-0

and running of a play in performance. Prerequisites: DRAMA 392 or consent of Department.

#### **DRAMA 494 - Specialized Skills in Stage Management**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** either term

##### **Description**

Skill sets for the practice of Stage Management.  
Note: Restricted to BFA (**Production**) Stage Management students. Repeatable (to be taken two years in succession).

#### **DRAMA 534 - Advanced Movement**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-6L-0  
**Fee index** 12  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

##### **Description**

Instruction and projects for individual growth in movement expression. Prerequisite: DRAMA 438.  
Note: Restricted to BFA (**Acting**) students.

#### **DRAMA 535 - Movement in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-3  
**Fee index** 6  
**Faculty** Arts  
**Department** Drama  
**Typically Offered** two term

##### **Description**

Note: Restricted to BFA (**Acting**) students. This is a credit-fail course

#### **DRAMA 544 - Dialects and Accents/Language Styles**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-7L-0

**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

Survey of dialects and accents; intensive practice in representative examples from the British Isles, Europe and North America; tutorial instruction to suit the actor's vocal needs; singing. Prerequisite: DRAMA 448. Note: Restricted to BFA (**Drama**) students.

**DRAMA 545 - Speech in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-3  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

Note: Restricted to BFA Acting students. This is a credit-fail course.

**DRAMA 590 - Production Crew III**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-15L-0  
**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

Production experience in preparing and/or running of a production for performance. Prerequisite: DRAMA 490. Note: Restricted to BFA (Technical **Theatre**) students. Repeatable.

**DRAMA 596 - Advanced Stage Management**

**Course Career** Graduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

**Description**

**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

Survey of dialects and accents; intensive practice in representative examples from the British Isles, Europe and North America; tutorial instruction to suit the actor's vocal needs; singing. Prerequisite: DRAMA 448. Note: Restricted to BFA (**Acting**) students.

**DRAMA 545 - Speech in Rehearsal and Performance**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-0-3  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

Note: Restricted to BFA (**Acting**) students. This is a credit-fail course.

**DRAMA 590 - Production Crew III**

**Course Career** Undergraduate  
**Units** 6  
**Approved Hours** 0-15L-0  
**Fee index** 12  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** two term

**Description**

Production experience in preparing and/or running of a production for performance. Prerequisite: DRAMA 490. Note: Restricted to BFA (**Production**) **Stage Management and** Technical **Production** students. Repeatable.

**DRAMA 596 - Advanced Stage Management**

**Course Career** Graduate  
**Units** 3  
**Approved Hours** 0-6L-0  
**Fee index** 6  
**Faculty Arts**  
**Department** Drama  
**Typically Offered** either term

Stage management practice as it applies to different types of production. Prerequisite: DRAMA 396. Note: Restricted to BFA **Technical Theatre** (Stage Management) students. Repeatable (to be taken two years in succession).

**Description**

Stage management practice as it applies to different types of production. Prerequisite: DRAMA 396. Note: Restricted to BFA **(Production)** Stage Management students. Repeatable (to be taken two years in succession).

This package contains: [Undergraduate - Minor Program Changes](#)

---

Faculty approval date:

AAC Date: October 31.2023
---------------------------

---

Page	Department or Unit	What is Changing
2	Drama	BA Drama / B.Ed Combined Degrees (Secondary)
4	Faculty / USS	BA Minor in Business

<b>Faculty of Arts</b>	<b>Drama</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	<a href="#">Diane Mcken</a>
Department/Unit Approval Date:	

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

*For the Drama combined degree there is a possibility that students could take 6 ucw in WRS and that would not meet the Faculty of Education's Ministry of Education Language/Literature requirements for certification which requires at least 3 ucw in English Literature from the 6 ucw total for Language/Literature requirements. The Calendar lists \*3 Junior English or \*3 WRS in the BA Common Requirements, and in Year 2 it lists \*3 Junior English or \*3 WRS again. This would imply students can take \*6 of WRS. This is fine as far as Arts is concerned, but for Teacher Certification this would be an issue because they would not have a Literature course.*

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poide=47427&returnto=12335](https://calendar.ualberta.ca/preview_program.php?catoid=39&poide=47427&returnto=12335)

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> <b>New language</b>
Bachelor of Arts (Drama) / Bachelor of Education in Secondary Education Combined Degrees Program [Arts]	Bachelor of Arts (Drama) / Bachelor of Education in Secondary Education Combined Degrees Program [Arts]
<b>Program Requirements</b> <hr/> Year 2 (30 units) Taken in the Faculty of Arts	<b>Program Requirements</b> <hr/> Year 2 (30 units) Taken in the Faculty of Arts
<ul style="list-style-type: none"> <li>• <a href="#">DRAMA 208 - Theatre History I</a></li> <li>• <a href="#">DRAMA 240 - Voice for Performance</a></li> <li>• <a href="#">DRAMA 257 - Scene Study I</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">DRAMA 208 - Theatre History I</a></li> <li>• <a href="#">DRAMA 240 - Voice for Performance</a></li> <li>• <a href="#">DRAMA 257 - Scene Study I</a></li> <li>• <a href="#">DRAMA 259 - Performer-Created Theatre</a></li> </ul>

- [DRAMA 259 - Performer-Created Theatre](#)
- [DRAMA 279 - Introduction to Theatre Production](#)
- [EDU 100 - Contexts of Education](#)
- [EDU 211 - Aboriginal Education and Contexts for Professional and Personal Engagement](#)
- 3 units in Minor requirements (see [Education Chart 2](#) and consult Education advisor)
- 3 units chosen from Faculty of Arts courses
- 3 units in 100-level ENGL ~~OR 100-level WRS~~

- [DRAMA 279 - Introduction to Theatre Production](#)
- [EDU 100 - Contexts of Education](#)
- [EDU 211 - Aboriginal Education and Contexts for Professional and Personal Engagement](#)
- 3 units in Minor requirements (see [Education Chart 2](#) and consult Education advisor)
- 3 units chosen from Faculty of Arts courses
- 3 units in 100-level ENGL

<b>Faculty of Arts</b>	<b>Faculty / Undergraduate Student Services</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input type="checkbox"/> No
Contact Person:	Kristy Wuetherick/Rebecca Nagel
Department/Unit Approval Date:	Undergraduate Student Services

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<ul style="list-style-type: none"> <li>The Alberta School of Business is renumbering some of its courses. The Calendar editor has confirmed that the renumbering will be done as a global change.</li> <li>A minor in Arts requires a minimum of 6 units at the 300- and 400-level. Therefore we are changing the requirement for “3 units at the senior level” to “3 units at the 300- or 400-level.”</li> </ul>
<a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47349&amp;returnto=12335">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47349&amp;returnto=12335</a>

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> <b>New language</b>
<b>Minor in Business (Alberta School of Business) [Arts]</b> ... <b>Program Requirements</b> The requirements of the minor in Business are: <ul style="list-style-type: none"> <li>ECON 101 - Introduction to Microeconomics</li> <li>ECON 102 - Introduction to Macroeconomics</li> <li>STAT 161 - Introductory Statistics for Business and Economics</li> </ul> <b>A minimum of 15 units to a maximum of 21 units in Business courses at the senior level including:</b>	<b>Minor in Business (Alberta School of Business) [Arts]</b> ... <b>Program Requirements</b> The requirements of the minor in Business are: <ul style="list-style-type: none"> <li>ECON 101 - Introduction to Microeconomics</li> <li>ECON 102 - Introduction to Macroeconomics</li> <li>STAT 161 - Introductory Statistics for Business and Economics</li> </ul> <b>A minimum of 15 units to a maximum of 21 units in Business courses at the senior level including:</b>



- B LAW 301 - Legal Foundations of the Canadian Economy
- MARK 301 - Introduction to Marketing
- SEM 301 - Behavior in Organizations
- 3 units in Business courses at the senior level

**3 units from:**

- ACCTG 300 - Introduction to Accounting
- ACCTG 311 - Introduction to Accounting for Financial Performance

**Notes:**

- ACCTG 311 is required for ACCTG 322.
- STAT 252 and MATH 154 as they may be required for some senior-level Business options.
- Course pre-requisites and co-requisites are not waived.
- Not all Business courses are available to students in the minor in Business.

- B LAW 201 - Legal Foundations of the Canadian Economy
- MARK 201 - Introduction to Marketing
- SEM 301 - Behavior in Organizations
- 3 units in Business courses at the 300- or 400-level

**3 units from:**

- ACCTG 200 - Introduction to Accounting
- ACCTG 211 - Introduction to Accounting for Financial Performance

**Notes:**

- ACCTG 211 is required for ACCTG 222.
- STAT 252 and MATH 154 may be required for some senior-level Business options.
- Course pre-requisites and co-requisites are not waived.
- Not all Business courses are available to students in the minor in Business.

**This package contains: [Undergraduate - Substantive Program Changes](#)**


---

Faculty approval date:

AAC Date: March 14, 2023	AEC Date: November 16, 2023	AFC Date: November 30, 2023
--------------------------	-----------------------------	-----------------------------

A

Page	Department or Unit	What is Changing
	<b>Economics</b>	BA Major in Economics
	<b>Economics</b>	BA Honors in Economics [Regulation ECON 399 +]
	<b>Faculty / USS</b>	BA Requirements [Non-A&S]
	<b>Faculty / USS</b>	BA Honors Requirements [Non-A&S]
	<b>Faculty / USS</b>	BA General Information
	<b>Music</b>	BA Honors
	<b>Psychology</b>	BA Major
	<b>Psychology</b>	BA Minor
	<b>Psychology</b>	BA Honors

<b>Faculty of Arts</b>	<b>Economics</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Chelsi Hudson
Department/Unit Approval Date:	2023-09-25

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

**1) Regulations**

We've noticed an increase in students requesting transfer credit in ECON 399 by taking it in the Spring term at international institutions - mainly in China.

**2) Requirements**

This change is proposed to align the Econ major elective requirements with the programs offered in comparable Departments.

The Economics major currently requires only six units of 300/400-level courses, a number that is substantially lower than in comparable programs. Specifically, the standard practice in economics departments is to require four courses at the 300/400-level courses.

- The [University of Calgary](#) requires 12 units from 400 and 500-level courses (i.e., UofA 300 and 400-level courses) and an additional 9 units in Economics with a total of 42 Econ credits. The major requires a total of 14 ECON courses.
- The [University of British Columbia](#) requires 12 units from 400-level and at least 6 additional credits in ECON at the 3XX or 4XX-level with a total of 42 in Econ credits. The major requires a total of 14 ECON courses.
- The [University of Toronto Economics Major \(Arts Program\)](#) requires 2.0 credits (comparable to our 12 units) with 1.5 credits from 300+ level ECO courses and at least a 0.5 credit 400-level ECO courses. Their 300-level courses are comparable to our 400-level courses due to differences in their core sequence.

This change increases our Econ major requirement from 30 units to 36 units, where the maximum is 48 units (in the Faculty of Arts). This change corresponds to 12 ECON courses and is still below the number of courses required in other comparable institutions.

Our core sequences in microeconomics, macroeconomics, and econometrics are designed to provide students with the tools required to understand upper-level elective field courses. However, currently, economics majors take very few field courses, which negatively affect their overall training.

In the past, the Department of Economics has been unable to align its majors requirements to those offered in comparable institutions due to the combination of an extremely high number of economics majors and the Department's limited resources.

We now explicitly list all 36 units in senior-level requirements. With two courses at 300/400-level, two courses at 400-level, and the 6 core courses, it follows that the students need to take 2 courses in 200-level or above to complete the 12 senior-level ECON courses.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47394](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47394)

## Calendar Copy

Current: <b>Removed language</b> (Include name of program)	Proposed: <b>New language</b>
<p><b>Major in Economics [Arts]</b></p> <p>[...]</p> <p><b>Regulations</b></p> <p>Economics majors may choose Mathematics or Statistics from the Faculty of Science as their minor subject rather than a discipline offered by another program in the Faculty of Arts. See Minors [Science].</p> <p><b>Requirements for the Major</b></p> <p>A major in Economics requires:</p> <ul style="list-style-type: none"> <li>● ECON 101 - Introduction to Microeconomics AND</li> <li>● ECON 102 - Introduction to Macroeconomics</li> <li>OR</li> <li>● ECON 204 - Principles of Economics</li> <li>● MATH 154 - Calculus for Business and Economics I</li> <li>● MATH 156 - Calculus for Business and Economics II</li> <li>● STAT 161 - Introductory Statistics for Business and Economics</li> </ul> <p>A minimum of <b>30 units</b> to a maximum of 48 units in senior-level ECON including:</p> <ul style="list-style-type: none"> <li>● ECON 281 - Intermediate Microeconomic Theory I</li> </ul>	<p><b>Major in Economics [Arts]</b></p> <p>[...]</p> <p><b>Regulations</b></p> <p>Economics majors may choose Mathematics or Statistics from the Faculty of Science as their minor subject rather than a discipline offered by another program in the Faculty of Arts. See Minors [Science].</p> <p><b>Transfer credit will not be granted for ECON 399 or 400-level ECON courses if taken outside of the University of Alberta.</b></p> <p><b>Requirements for the Major</b></p> <p>A major in Economics requires:</p> <ul style="list-style-type: none"> <li>● ECON 101 - Introduction to Microeconomics AND</li> <li>● ECON 102 - Introduction to Macroeconomics</li> <li>OR</li> <li>● ECON 204 - Principles of Economics</li> <li>● MATH 154 - Calculus for Business and Economics I</li> <li>● MATH 156 - Calculus for Business and Economics II</li> <li>● STAT 161 - Introductory Statistics for Business and Economics</li> </ul> <p>A minimum of <b>36 units</b> to a maximum of 48 units in senior-level ECON including:</p> <p>Core courses:</p>

- ECON 282 - Intermediate Macroeconomic Theory I
- ECON 299 - Quantitative Methods in Economics
- ECON 384 - Intermediate Microeconomic Theory II
- ECON 385 - Intermediate Macroeconomic Theory II
- ECON 399 - Introductory Econometrics
- 6 units in 400-level ECON

- ECON 281 - Intermediate Microeconomic Theory I
- ECON 282 - Intermediate Macroeconomic Theory I
- ECON 299 - Quantitative Methods in Economics
- ECON 384 - Intermediate Microeconomic Theory II
- ECON 385 - Intermediate Macroeconomic Theory II
- ECON 399 - Introductory Econometrics

Elective courses:

- 6 units in ECON at 200-level or above
- 6 units in ECON at 300-level or above
- 6 units in ECON at 400-level

<b>Faculty of Arts</b>	<b>Economics</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input type="checkbox"/> Program <input checked="" type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Chelsi Hudson
Department/Unit Approval Date:	2023-09-25

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

We've noticed an increase in students requesting transfer credit in ECON 399 by taking it in the Spring term at international institutions - mainly in China.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48189](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48189)

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> <b>New language</b>
Honors in Economics [Arts]	Honors in Economics [Arts]
Honors in Economics	Honors in Economics
General Information	General Information
Students planning to apply for admission to the Honors program should consult BA Honors for admission requirements. See Bachelor of Arts Honors for Faculty regulations concerning the Honors program.	Students planning to apply for admission to the Honors program should consult BA Honors for admission requirements. See Bachelor of Arts Honors for Faculty regulations concerning the Honors program.
	<b>Regulations</b> <b>Transfer credit will not be granted for ECON 399 or 400-level ECON courses if taken outside of the University of Alberta.</b>

<b>Faculty of Arts</b>	<b>Faculty / Undergraduate Student Services</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Kristy Wuetherick/Rebecca Nagel
Department/Unit Approval Date:	Undergraduate Student Services

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

We are proposing the removal of the Non-Arts or Non-Science requirement in the Bachelor of Arts program for the following reasons:

1. We have been working on adding more Minor options for students that are outside of the Faculties of Arts and Science (e.g. Minor in Business and future proposed minors from ALES) and the requirement to restrict the number of Non-Arts/Non-Science courses means that students will have difficulty doing these options. This encourages more interdisciplinary in our program.
2. This requirement also provides difficulty for students who are interested in choosing embedded certificates from outside of Arts or Sciences.
3. The programs still have a minimum number of Arts courses (63 units) that must be completed in order to receive a Bachelor of Arts – removing this requirement just allows more flexibility for the remaining options required in the program.
4. Students who transfer to the Bachelor of Arts program from other Faculties often run into issues with this requirement, which means that they lose credit and have to complete more courses than they otherwise would.

Consultation:  
Faculty of Arts Undergraduate Programs Committee - September 20, 2023

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47349&returnto=12335](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47349&returnto=12335)

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include name of program)	<b>Proposed:</b> <b>New language</b>
<p><b>Bachelor of Arts</b></p> <p><b>Program Requirements</b> The BA degree requires students to successfully complete 120 units including the following: [...]</p> <p><b>8. Non-Arts or Non-Science Options:</b> A maximum of 21 units may be taken outside the Faculties of Arts and Science as long as the courses do not</p>	<p><b>Bachelor of Arts</b></p> <p><b>Program Requirements</b> The BA degree requires students to successfully complete 120 units including the following: [...]</p>

duplicate courses already offered by these two Faculties. Courses offered by the Faculty of Native Studies will be counted as Arts courses [see Options and Native Studies (Faculty of Native Studies)]. See also Registration Information.



<b>Faculty of Arts</b>	<b>Faculty / Undergraduate Student Services</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Kristy Wuetherick/Rebecca Nagel
Department/Unit Approval Date:	Undergraduate Student Services

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

We are proposing the removal of the Non-Arts or Non-Science requirement in the Bachelor of Arts Honors program for the following reasons:

1. We have been working on adding more Minor options for students that are outside of the Faculties of Arts and Science (e.g. Minor in Business and future proposed minors from ALES) and the requirement to restrict the number of Non-Arts/Non-Science courses means that students will have difficulty doing these options. This encourages more interdisciplinary in our program.
2. This requirement also provides difficulty for students who are interested in choosing embedded certificates from outside of Arts or Sciences.
3. The programs still have a minimum number of Arts courses (63 units) that must be completed in order to receive a Bachelor of Arts Honors – removing this requirement just allows more flexibility for the remaining options required in the program.
4. Students who transfer to the Bachelor of Arts program from other Faculties often run into issues with this requirement, which means that they lose credit and have to complete more courses than they otherwise would.

Consultation:  
Faculty of Arts Undergraduate Programs Committee - September 20, 2023

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poide=47393&returnto=12335](https://calendar.ualberta.ca/preview_program.php?catoid=39&poide=47393&returnto=12335)

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> <b>New language</b>
<b>Bachelor of Arts Honors</b>  <b>Program Requirements</b> [...]	<b>Bachelor of Arts Honors</b>  <b>Program Requirements</b> [...]
<del><b>Non-Arts or Non-Science Options</b></del>  <del>A maximum of 21 units in non-Arts or non-Science courses may be taken outside the Faculties of Arts or Science, as long as the courses do not duplicate</del>	

courses already offered by these two Faculties.

--	--

Faculty of Arts	Faculty / Undergraduate Student Services
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input type="checkbox"/> Program <input checked="" type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Kristy Wuetherick/Rebecca Nagel
Department/Unit Approval Date:	10.17.23

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

We are proposing the removal of the Non-Arts or Non-Science requirement in the Bachelor of Arts program for the following reasons:

1. We have been working on adding more Minor options for students that are outside of the Faculties of Arts and Science (e.g. Minor in Business and future proposed minors from ALES) and the requirement to restrict the number of Non-Arts/Non-Science courses means that students will have difficulty doing these options. This encourages more interdisciplinary in our program.
2. This requirement also provides difficulty for students who are interested in choosing embedded certificates from outside of Arts or Sciences.
3. The programs still have a minimum number of Arts courses (63 units) that must be completed in order to receive a Bachelor of Arts – removing this requirement just allows more flexibility for the remaining options required in the program.
4. Students who transfer to the Bachelor of Arts program from other Faculties often run into issues with this requirement, which means that they lose credit and have to complete more courses than they otherwise would.

Part of this change is also making a small adjustment to the approved course from ALES that are considered Arts options moving forward.

Consultation:  
Faculty of Arts Undergraduate Programs Committee - September 20, 2023

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12229#general-program-information>

**Calendar Copy**

Current: <span style="background-color: yellow;">Removed language</span> (Include name of program)	Proposed: <span style="background-color: yellow;">New language</span>
<p><b>General Program Information</b></p> <p>3. Options</p> <p>a. <b>Arts Options:</b> Any course offered by the <a href="#">Faculty of Arts</a> and courses from the following areas:</p> <p>i. Faculty of Native Studies,</p>	<p><b>General Program Information</b></p> <p>3. Options</p> <p>a. <b>Arts Options:</b> Any course offered by the <a href="#">Faculty of Arts</a> and courses from the following areas:</p> <p>i. Faculty of Native Studies,</p>

- ii. Arts discipline courses from Augustana Faculty and Faculté Saint-Jean
- iii. St Joseph's College (CHRTC)
- iv. St. Stephen's College (SPRIT and CATS); and
- v. approved courses by the Faculty of Agricultural, Life, and Environmental Sciences, including: [AREC 473](#), [AREC 482](#), [AREC 485](#), [AREC 487](#), [R-SOC 355](#), [R-SOC 459](#)

**b. Non-Arts Discipline Options:** Any course not offered by the Faculty of Arts, or any of the faculties/courses outlined in a. above.

**c. Science Options:** Any course offered by the Faculty of Science or Science discipline courses from Augustana Faculty and Faculté St Jean

**d. Interdisciplinary (INT D) Courses:** The Faculty of Arts offers Interdisciplinary (INT D) Courses in a variety of topics (see [Course Listings](#)). Depending on the specific topic/course offered, these courses could meet specific major/minor or certificate requirements or could be used as Arts Option requirements, unless otherwise specified in the course description. Students can contact the department or faculty for more information on how these courses will fit within their degree requirements.  
 Note: Other Faculties also offer INT D courses and those courses would fit under Science Options or Non-Arts Discipline Options depending on which Faculty or department is responsible for the course.

**e. Community Service-Learning courses:** A number of courses in departments and programs across the Faculty of Arts offer community engagement as an option or requirement. Students in Community Service-Learning (CSL) courses take part in community-based learning experiences that link to course content. [Community Service-Learning course.](#)  
 Note: The Community Service-Learning program offers its own CSL designated

- ii. Arts discipline courses from Augustana Faculty and Faculté Saint-Jean
- iii. St Joseph's College (CHRTC)
- iv. St. Stephen's College (SPRIT and CATS); and
- v. approved courses by the Faculty of Agricultural, Life, and Environmental Sciences, including any course from AREC (Agricultural and Resource Economics) and R SOC (Rural Sociology)

**b. Non-Arts Discipline Options:** Any course not offered by the Faculty of Arts, or any of the faculties/courses outlined in a. above.

**c. Interdisciplinary (INT D) Courses:** The Faculty of Arts offers Interdisciplinary (INT D) Courses in a variety of topics (see [Course Listings](#)). Depending on the specific topic/course offered, these courses could meet specific major/minor or certificate requirements or could be used as Arts Option requirements, unless otherwise specified in the course description. Students can contact the department or faculty for more information on how these courses will fit within their degree requirements.  
 Note: Other Faculties also offer INT D courses and those courses would fit under Science Options or Non-Arts Discipline Options depending on which Faculty or department is responsible for the course.

**d. Community Service-Learning courses:** A number of courses in departments and programs across the Faculty of Arts offer community engagement as an option or requirement. Students in Community Service-Learning (CSL) courses take part in community-based learning experiences that link to course content.  
 Note: The Community Service-Learning program offers its own CSL designated courses (see [Course Listings](#)) and a certificate

courses (see [Course Listings](#)) and a certificate (see [Certificate in Community Engagement and Service-Learning](#)). For further information see the [CSL website](#).

(see [Certificate in Community Engagement and Service-Learning](#)). For further information see the [CSL website](#).

**Notes:**

Students registered in any program other than the BFA or BMus may take up to 21 units of course weight (as options) in Faculties other than Arts and Science. Any option courses taken are subject to the following restrictions:

- i. Their inclusion in a program is subject to the Faculty limitations on the number of junior courses and non-Arts courses that may be offered for credit.
- ii. The course must, in each case, carry a minimum unit of course weight of 3 units. Two courses in the same Faculty, each with a weight of 1.5 units, will be accepted as the equivalent of one course with a weight of 3 units.
- iii. Students in the Bachelor of Design, Bachelor of Fine Arts in Art and Design, Bachelor of Fine Arts in Drama, and Bachelor of Music should refer to the specific program requirements for regulations regarding non-Arts or non-Science options permitted (if any) in those programs.

<b>Faculty of Arts</b>	<b>Music</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Stephen Tchir ( <a href="mailto:stchir@ualberta.ca">stchir@ualberta.ca</a> )
Department/Unit Approval Date:	4 October 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<p>This program change request is to make minor updates to the BA Honors which include the removal of courses that are no longer active and otherwise editorial changes such as filling in missing titles and moving relevant information from one area of the page to another for more clarity and brevity.</p>
<p><a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47393">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47393</a></p>

**Calendar Copy**

Current: <b>Removed language</b> (Include name of program)	Proposed: <b>New language</b>
<p><b>Honors in Music [Arts]</b>  <b>Honors in Music</b>  <b>General Information</b>            Students planning to apply for admission to the Honors program should consult BA Honors for admission requirements.</p> <p>See Bachelor of Arts Honors for Faculty regulations concerning the Honors program.</p> <p>The BA degree with Honors in Music is available to undergraduates interested in theoretical, historical and cultural issues in art, traditional or popular music.</p> <p><b>Program Requirements</b>            Honors in Music requires 66 units in <b>Music (at the junior and senior levels)</b> as follows:</p>	<p><b>Honors in Music [Arts]</b>  <b>Honors in Music</b>  <b>General Information</b>            Students planning to apply for admission to the Honors program should consult BA Honors for admission requirements.</p> <p>See Bachelor of Arts Honors for Faculty regulations concerning the Honors program.</p> <p>The BA degree with Honors in Music is available to undergraduates interested in theoretical, historical and cultural issues in art, traditional, or popular music.</p> <p><b>Program Requirements</b>            Honors in Music requires 66 units in <b>MUSIC, 12 units in one approved Language other than English and 12 units in non-MUSIC Arts options. Normally, no more than 66 units in MUSIC may be taken.</b></p>

**Course Requirements**

MUSIC 102 - Introduction to World Music

MUSIC 155 - Music Theory I

MUSIC 156 - Music Theory II

MUSIC 255 - Music Theory III

MUSIC 256 - Music Theory IV

**MUSIC 280**

MUSIC 283 - Western Art Music, Ancient-1800

MUSIC 284

MUSIC 365 - Topics in Ethnomusicology

MUSIC 455 - Music Theory V

MUSIC 504 - Honors Essay

MUSIC 505 - Bibliography and Methods of Research

**3 units in Ethnomusicology selected from**

MUSIC 464 - Topics in Ethnomusicology: Music and Religion

MUSIC 465 - Area Studies in Ethnomusicology

MUSIC 466 - Topics in Ethnomusicology

MUSIC 468 - Area Studies in Ethnomusicology: The Arab World

MUSIC 469 - Area Studies in Ethnomusicology: Music and Islam

**3 units in Music History selected from****MUSIC 206**

MUSIC 314 - Music in Canada

MUSIC 481 - Topics in Contemporary Music and Sonic Arts

MUSIC 482 - Studies in Music and Gender

MUSIC 483

MUSIC 484 - Studies in Music and Society

MUSIC 485 - Composer Studies

MUSIC 487 - Period Studies

**3 units in Musicology Seminar selected from****MUSIC 501 - Music History Seminar I [Move up]****MUSIC 502****3 units in Music Theory Seminar selected from**

MUSIC 555 - Issues in Theory and Analysis

MUSIC 556

**6 units in Performance selected from**

MUSIC 124 - Applied Music

MUSIC 126 - Applied Music

MUSIC 127 - Applied Music

MUSIC 140 - Choral Ensemble

MUSIC 141 - Instrumental Ensemble

MUSIC 143 - Indian Music Ensemble I

MUSIC 144 - West African Music Ensemble I

**Course Requirements**

MUSIC 102 - Introduction to World Music

MUSIC 155 - Music Theory I

MUSIC 156 - Music Theory II

MUSIC 255 - Music Theory III

MUSIC 256 - Music Theory IV

MUSIC 283 - Western Art Music, Ancient-1800

MUSIC 284 - **Western Art Music, 1800-Present**

MUSIC 365 - Topics in Ethnomusicology

MUSIC 455 - Music Theory V

**MUSIC 501 - Music History Seminar I [Moved]**

MUSIC 504 - Honors Essay

MUSIC 505 - Bibliography and Methods of Research

**3 units in Ethnomusicology selected from**

MUSIC 464 - Topics in Ethnomusicology: Music and Religion

MUSIC 465 - Area Studies in Ethnomusicology

MUSIC 466 - Topics in Ethnomusicology

MUSIC 468 - Area Studies in Ethnomusicology: The Arab World

MUSIC 469 - Area Studies in Ethnomusicology: Music and Islam

**3 units in Music History selected from**

MUSIC 314 - Music in Canada

MUSIC 481 - Topics in Contemporary Music and Sonic Arts

MUSIC 482 - Studies in Music and Gender

MUSIC 483 - **Studies in Musical Genre**

MUSIC 484 - Studies in Music and Society

MUSIC 485 - Composer Studies

MUSIC 487 - Period Studies

**3 units in Music Theory Seminar selected from**

MUSIC 555 - Issues in Theory and Analysis

MUSIC 556 - **Seminar in Music Theory****6 units in Performance selected from**

MUSIC 124 - Applied Music

MUSIC 126 - Applied Music

MUSIC 127 - Applied Music

MUSIC 140 - Choral Ensemble

MUSIC 141 - Instrumental Ensemble

MUSIC 143 - Indian Music Ensemble I

MUSIC 144 - West African Music Ensemble I

MUSIC 148 - Middle Eastern and North African Music Ensemble I  
MUSIC 224 - Applied Music  
MUSIC 226 - Applied Music  
MUSIC 227 - Applied Music  
MUSIC 439 - Vocal and Instrumental Chamber Ensemble  
MUSIC 440 - Choral Ensemble  
MUSIC 441 - Instrumental Ensemble  
MUSIC 442 - Specialized Ensemble  
MUSIC 443 - Indian Music Ensemble  
MUSIC 444 - West African Music Ensemble  
MUSIC 448 - Middle Eastern and North African Music Ensemble

**12 units in unspecified MUSIC**

**Notes**

The following course has been approved as a Music option: CATS 381.

Honors in Music requires 12 units in one approved Language other than English. Normally, no more than 66 units in Music may be taken. Students are also required to complete 12 units in non-Music Arts options.

Except for the language other than English requirement, this program does not have a minor requirement.

Graduation with First Class Honors requires a minimum GPA of 3.7 on all Music courses in the last two years and a GPA of 3.5 or better on all courses in the two final years or last 60 units.

MUSIC 148 - Middle Eastern and North African Music Ensemble I  
MUSIC 224 - Applied Music  
MUSIC 226 - Applied Music  
MUSIC 227 - Applied Music  
MUSIC 439 - Vocal and Instrumental Chamber Ensemble  
MUSIC 440 - Choral Ensemble  
MUSIC 441 - Instrumental Ensemble  
MUSIC 442 - Specialized Ensemble  
MUSIC 443 - Indian Music Ensemble  
MUSIC 444 - West African Music Ensemble  
MUSIC 448 - Middle Eastern and North African Music Ensemble

**15 units in MUSIC options**

Note: CATS 381 can be taken as a MUSIC option

**Promotion Requirements**

Promotion from year to year requires a minimum GPA of 3.0 and a minimum GPA of 3.3 in MUSIC courses.

**Graduation Requirements**

Graduation with Honors in Music requires a graduation average of at least 3.0 with an average of at least 3.3 on all courses applied to the major completed at the University of Alberta.

Graduation with First Class Honors requires a minimum GPA of 3.7 on all MUSIC courses in the last two years and a GPA of 3.5 or better on all courses in the two final years or last 60 units.



<b>Faculty of Arts</b>	<b>Psychology</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input checked="" type="checkbox"/> Yes    New PSYCH 213 course (Science)
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Wendy Hoglund (Associate Chair)
Department/Unit Approval Date:	09.29.23

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

The addition of PSYCH 213 (Science) - Introduction to Data Analysis in Psychology I as a requirement for the Minor and Major Programs is in response to a central recommendation of the 2019-2020 Undergraduate and Graduate Program Quality Assurance review. It addresses the concern that psychology students are not currently receiving enough instruction in research methods and data analysis applicable to the field. Courses such as PSYCH 213 are taught within psychology programs at various other institutions across Canada. This course compliments the content within our existing PSYCH 212 - Introduction to Research Methods in Psychology course. Both PSYCH 212 and PSYCH 213 are proposed new requirements of all psychology programs as of Fall 2024. Students may still elect to complete STAT 151 in place of PSYCH 213.

There has been an addition of two PSYCH courses at the 200-level or higher in order to match the BSc Minor program requirements.

There has been an addition of two PSYCH courses at the 300-level or higher in order to match the new BSc Major program requirements.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poiid=47349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poiid=47349)

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> <b>New language</b>
<b>Major in Psychology [Arts]</b> <b>General Information</b> See Bachelor of Arts for additional regulations and requirements.  The Department of Psychology offers courses leading to BA and BSc degrees. Students who want to emphasize the humanities and social sciences in their programs should register for the BA and follow one of the sequences suggested in the Faculty of Arts section. Students wishing to emphasize the biological sciences should register for the BSc. However, to ensure a well-rounded	<b>Major in Psychology [Arts]</b> <b>General Information</b> See Bachelor of Arts for additional regulations and requirements.  The Department of Psychology offers courses leading to BA and BSc degrees. Students who want to emphasize the humanities and social sciences in their programs should register for the BA and follow one of the sequences suggested in the Faculty of Arts section. Students wishing to emphasize the biological sciences should register for the BSc. However, to ensure a well-rounded

background in psychological inquiry, students in the BA program must take Psychology courses from both the Faculties of Arts and Science.

Requirements for the Major

### Requirements for the Major

PSYCH 104 - Basic Psychological Processes  
PSYCH 105 - Individual and Social Behavior

**STAT 141 OR**

**STAT 151 - Introduction to Applied Statistics I**  
**[move]**

**3 units from CMPUT, MATH or STAT (not including STAT 141 or STAT 151)**

**6 units at the 300- or 400-level must be from the PSYCH courses offered by Arts**

**6 units at the 300- or 400-level must be from the PSYCH courses offered by Science**

**At least 6 units must be at the 400-level**

#### **6 units from**

PSYCH 223 - Lifespan Developmental Psychology  
PSYCH 239 - Abnormal Psychology  
PSYCH 241 - Social Psychology

#### **6 units from**

PSYCH 258 - Cognitive Psychology  
PSYCH 275 - Brain and Behavior  
PSYCH 282 - Behavior Modification

background in psychological inquiry, students in the BA program must take Psychology courses from both the Faculties of Arts and Science.

### Requirements for the Major

PSYCH 104 - Basic Psychological Processes  
PSYCH 105 - Individual and Social Behavior

**PSYCH 212 - Introduction to Research Methods in Psychology**

**PSYCH 213 - Introduction to Data Analysis in Psychology I or STAT 151 - Introduction to Applied Statistics I**

**Note: PSYCH 212 and 213 should be completed within the first two years (60-units) of the degree.**

#### **6 units from**

PSYCH 223 - Lifespan Developmental Psychology  
PSYCH 239 - Abnormal Psychology  
PSYCH 241 - Social Psychology

#### **6 units from**

PSYCH 258 - Cognitive Psychology  
PSYCH 275 - Brain and Behavior  
PSYCH 282 - Behavior Modification

#### **3 units from**

**any 300- and 400-level PSYCH course offered by the Faculty of Arts**

#### **3 units from**

**any 300- and 400-level PSYCH course offered by the Faculty of Science**

<p><b>Note:</b> Because STAT 141 or STAT 151 is a prerequisite or corequisite for several senior courses, it should be taken in Year 1 or 2.</p>	<p><b>3 additional units from</b> any 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 additional units from</b> any 400-level PSYCH course offered by the Faculty of Science</p> <p><b>6 additional units from</b> any 300- and 400-level PSYCH course</p>
--	--

<b>Faculty of Arts</b>	<b>Psychology</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input checked="" type="checkbox"/> Yes    PSYCH 213 new course (Science)
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Wendy Hoglund (Associate Chair)
Department/Unit Approval Date:	09.29.23

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

The addition of PSYCH 213 (Science) - Introduction to Data Analysis in Psychology I as a requirement for the Minor and Major Programs is in response to a central recommendation of the 2019-2020 Undergraduate and Graduate Program Quality Assurance review. It addresses the concern that psychology students are not currently receiving enough instruction in research methods and data analysis applicable to the field. Courses such as PSYCH 213 are taught within psychology programs at various other institutions across Canada. This course compliments the content within our existing PSYCH 212 - Introduction to Research Methods in Psychology course. Both PSYCH 212 and PSYCH 213 are proposed new requirements of all psychology programs as of Fall 2024. Students may still elect to complete STAT 151 in place of PSYCH 213.

There has been an addition of two PSYCH courses at the 200-level or higher in order to match the BSc Minor program requirements.

There has been an addition of two PSYCH courses at the 300-level or higher in order to match the new BSc Major program requirements.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poiid=47349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poiid=47349)

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include name of program)	<b>Proposed:</b> <b>New language</b>
<b>Minor in Psychology [Arts]</b> <b>General Information</b> This minor is commonly taken as part of the Bachelor of Arts program, which has additional regulations and requirements.  Students from other programs should note the regulations and requirements on their own program page.  <b>Requirements</b> <b>Students selecting Psychology as a minor are required to take the following:</b>	<b>Minor in Psychology [Arts]</b> <b>General Information</b> This minor is commonly taken as part of the Bachelor of Arts program, which has additional regulations and requirements.  Students from other programs should note the regulations and requirements on their own program page.  <b>Requirements</b>

PSYCH 104 - Basic Psychological Processes  
PSYCH 105 - Individual and Social Behavior

~~STAT 141 OR~~  
STAT 151 - Introduction to Applied Statistics I  
[move]

**3 units from**

PSYCH 223 - Lifespan Developmental Psychology  
PSYCH 239 - Abnormal Psychology  
PSYCH 241 - Social Psychology

**3 units from**

PSYCH 258 - Cognitive Psychology  
PSYCH 275 - Brain and Behavior  
PSYCH 282 - Behavior Modification

**3 units from**

300- ~~or~~ 400-level PSYCH courses offered by Arts

**3 units from**

300- ~~or~~ 400-level PSYCH courses offered by  
Sciences

**Note:**

Because STAT 141 or STAT 151 is a prerequisite  
or corequisite for several senior courses, it should  
be taken in Year 1 or 2.

PSYCH 104 - Basic Psychological Processes  
PSYCH 105 - Individual and Social Behavior

PSYCH 212 - Introduction to Research Methods in  
Psychology

PSYCH 213 - Introduction to Data Analysis in  
Psychology I or STAT 151 - Introduction to Applied  
Statistics I

(PSYCH 212 and 213 should be completed within  
the first two years (\*60) of the degree.)

**3 units from**

PSYCH 223 - Lifespan Developmental Psychology  
PSYCH 239 - Abnormal Psychology  
PSYCH 241 - Social Psychology

**3 units from**

PSYCH 258 - Cognitive Psychology  
PSYCH 275 - Brain and Behavior  
PSYCH 282 - Behavior Modification

**3 units from**

any 300- and 400-level PSYCH course offered by  
the Faculty of Arts

**3 units from**

any 300- and 400-level PSYCH course offered by  
the Faculty of Science

**6 additional units from:**

any 200-, 300-, and 400-level PSYCH course

<b>Faculty of Arts</b>	<b>Psychology</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input checked="" type="checkbox"/> Yes. There are two new courses to be added to the calendar, PSYCH 213: Introduction to Data Analysis in Psychology I and PSYCH 313: Introduction to Data Analysis in Psychology II.
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Wendy Hoglund
Department/Unit Approval Date:	09.29.23

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<ol style="list-style-type: none"> <li>1) The recent BSc Renewal in the Faculty of Science has resulted in changes to the various Psychology programs. It is the decision of the department that our programs should remain consistent between the two faculties of Arts and Science. Many of the proposed changes reflect that.</li> <li>2) The Department of Psychology is following the feedback provided from our Quality Assurance Review, which suggested an increase in the instruction of research methods and data analysis, as they apply to the field of psychology. We are introducing two new Psychology data analysis courses (PSYCH 213 and PSYCH 313), as well as requiring Honors students to complete an advanced research methods course. Students may still complete STAT 151 and STAT 252 in place of PSYCH 213 and PSYCH 313.</li> <li>3) Given the removal of course load requirements, we have changed the wording for certain courses to indicate enrollment in “first” or “second” year of the Honors program, rather than “third” or “fourth” year of the degree.</li> <li>4) Information about the presentation requirement for first and second year Honors students has been updated.</li> <li>5) Promotion requirements: Annual GPA has been changed to match the new BSc Honors requirements (i.e., 3.0). The Psychology specific annual GPA requirement has been removed. Graduation requirements: Graduation GPA average has been changed to 3.0 and First-class to 3.5.</li> </ol>
<a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47393">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47393</a>

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> New language
---	-------------------------------

## Honors in Psychology

### General Information

Students planning to apply for admission to the Honors program should consult BA Honors for admission requirements. Admission into the Honors program is permitted after completion of a minimum of 48 units. Final acceptance into the Honors program is dependent upon obtaining formal approval from a potential research supervisor.

See Bachelor of Arts Honors for Faculty regulations concerning the Honors program.

### Program Requirements

Although admission into the Honors Psychology program is normally in the third year, students are expected to take a minimum of 24 units during the Fall/Winter of each year of study, including the first and second years. Once admitted to the Honors program, exceptions to this requirement must have the prior written approval of the Department and the Faculty. The student's program of courses must be approved in advance each year by the Honors Psychology Advisor.

A minimum of an additional 12 units must be taken in one or more disciplines other than Psychology. These courses may not overlap those used to fulfill the Department's Computing/Mathematics/Statistics, Natural Science, and Social Science requirements.

Under the supervision of a faculty member in the Department, students undertake a year-long research apprenticeship (PSYCH 399) during the third year, and conduct research and write an empirical thesis (PSYCH 490) during the fourth year. Third-year students present their thesis research proposals, and fourth-year students present the results of their thesis research, at the annual Honors Psychology Conference in April.

## Honors in Psychology

### General Information

Admission into the Honors Psychology program is normally in the third year and is contingent upon securing a research supervisor. Advice on how to do this is found on the [Department Website](#). Students planning to apply for admission may contact the Honors Advisor in the Department of Psychology.

### Program Requirements

Honors in Psychology requires a minimum of 72 units in Psychology courses. The student's program of courses must be approved in advance each year by the Honors Advisor.

First year Honors students must complete a formal presentation (i.e., oral or poster) about their research progress, and second year Honors students must formally present the results of their thesis research. This is typically done at the annual Honors Psychology Conference. Other public venues can fulfill this requirement, with approval by the Honors advisor.

### Course Requirements

PSYCH 104 - Basic Psychological Processes

PSYCH 105 - Individual and Social Behavior

STAT 151 - Introduction to Applied Statistics I  
(STAT 141 may be substituted)

STAT 252 - Introduction to Applied Statistics II  
(which must be completed by the end of the first term after admission to the program)

A minimum of 48 units at the senior level in PSYCH including:

PSYCH 212 - Introduction to Research Methods in Psychology

(which must be completed by the end of the first term after admission to the program)

PSYCH 300 - Honors Seminar I

(normally taken in the third year)

PSYCH 399 - Honors Thesis I: Research Apprenticeship

(normally taken in the third year; to be taken twice)

PSYCH 400 - Honors Seminar II

(taken in the fourth year)

PSYCH 490 - Honors Thesis II: Thesis Research

(taken in the fourth year; to be taken twice)

PSYCH 303 - History of Ideas in Psychology [move]

(normally taken in the third or fourth year) OR

PSYCH 304 - History of Modern Psychology [move]

(normally taken in the third or fourth year)

One advanced research methods course approved by the Honors advisor (3 units normally taken in the third or fourth year)

### Course Requirements

PSYCH 104 - Basic Psychological Processes

PSYCH 105 - Individual and Social Behavior

### Senior Courses

PSYCH 212 - Introduction to Research Methods in Psychology

PSYCH 213 - Introduction to Data Analysis in Psychology I or STAT 151 - Introduction to Applied Statistics I

PSYCH 313 - Introduction to Data Analysis in Psychology II or STAT 252 - Introduction to Applied Statistics II

Note: PSYCH 212 and 213 should be completed within the first two years (60 - units) of the degree.

PSYCH 300 - Honors Seminar I

(must be taken in the first year of the Honors program)

PSYCH 399 - Honors Thesis I: Research Apprenticeship

(must be taken twice in the first year of the Honors program)

PSYCH 400 - Honors Seminar II

(must be taken in the second year of the Honors program)

PSYCH 490 - Honors Thesis II: Thesis Research

(must be taken twice in the second year of the Honors program)



Two 400-level substantive content (non-methods) Psychology courses approved by the Honors Advisor and excluding PSYCH 409, PSYCH 410, PSYCH 411, PSYCH 413, PSYCH 431, PSYCH 475, 476, 482, PSYCH 496, PSYCH 498, PSYCH 499.

Two of  
(6 units normally taken in the second year)

PSYCH 223 - Lifespan Developmental Psychology  
PSYCH 239 - Abnormal Psychology  
PSYCH 241 - Social Psychology

Two of  
(6 units normally taken in the second year).

PSYCH 258 - Cognitive Psychology  
PSYCH 275 - Brain and Behavior  
PSYCH 282 - Behavior Modification

The following courses from other Departments are also required:

6 units selected from 100-level ENGL OR 3 units 100-level ENGL and WRS 101

6 units from BIOL, CHEM, PHYS

6 units from ANTHR, ECON, LING, POL S, and/or SOC

3 units from

Any computing science; mathematics; or statistics courses approved by the Honors advisor.

**6 units from**

PSYCH 223 - Lifespan Developmental Psychology  
PSYCH 239 - Abnormal Psychology  
PSYCH 241 - Social Psychology

**6 units from**

PSYCH 258 - Cognitive Psychology  
PSYCH 275 - Brain and Behavior  
PSYCH 282 - Behavior Modification

**3 units from**

PSYCH 303 - History of Ideas in Psychology  
PSYCH 304 - History of Modern Psychology

**3 units from:**

any 300- and 400-level PSYCH advanced research methods course: 356, 412, 413, 415, 431, 471, or equivalent course approved by the Honors advisor (normally taken in the first or second year of the Honors program)

**6 additional units from:**

any 300- and 400-level PSYCH course

**6 additional units from:**

any 400-level PSYCH course

**9 additional units from:**

any 200-, 300-, and 400-level PSYCH course

**Promotion Requirements**

Promotion from year to year requires a GPA of at least 3.3 with an average of at least 3.3 in all Psychology courses in the Fall/Winter.

**Graduation Requirements**

Graduation with Honors in Psychology requires a graduation average of at least 3.3 with an average of at least 3.3 in all Psychology courses.

Graduation with First-Class Honors requires an average of at least 3.7 in all Psychology courses taken in the last two years (last 60 units) and an average of at least 3.5 in all courses taken in the last two years (last 60 units).

**Promotion Requirements**

Promotion from year to year requires a GPA of at least 3.0 over the previous annual performance (Fall/Winter).

**Graduation Requirements**

Graduation with Honors in Psychology requires a graduation average of at least 3.0, with an average of at least 3.0 in all Psychology courses. First-Class Honors Degrees are awarded to any student in an Honors program who obtained a GPA of at least 3.5 and no failing grades on the last 60 units of course weight, excluding courses declared extra-to-degree.

<b>Faculty of Arts</b>	<b>USS/Faculty Office</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	Kristy Wuetherick/Rebecca Nagel
Department/Unit Approval Date:	

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<p>This change is based on the updates to the Faculty of Science program changes that will be implemented for Fall 2024.</p> <ol style="list-style-type: none"> <li>We are adding a requirement that if a student chooses the Mathematics major that they must select a minor from the Faculty of Arts specifically based on the fact that if they choose another Science minor or a Business minor they have difficulty with being able to meet the requirements of the BA degree to do 63 credits within the Faculty of Arts.</li> <li>We are adding the new minors that are now being offered within the Faculty of Science.</li> </ol> <p><a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47349&amp;returnto=12335">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47349&amp;returnto=12335</a></p>
---

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> <b>New language</b>
<p><b>Program Requirements</b></p> <p>[...]</p> <p>4. <b>Minor:</b> Students may declare one or more minors. See <a href="#">BA Minor Requirements</a> for a list of subjects which may be declared as minors in the BA.</p> <p>A minor must include a minimum of 12 units to a maximum of 42 units at the senior level in an approved subject outside any major. Additional courses in a minor may not be taken as options. At least 6 units must be at the 300- or 400-level as specified by the department; some disciplines require specific courses and/or more than the specified Faculty minimums. See <a href="#">below</a> for specific requirements by subject. For Arts minors, a minimum of 6 units at the senior level must be satisfied with coursework offered</p>	<p><b>Program Requirements</b></p> <p>[...]</p> <p>4. <b>Minor:</b> Students may declare one or more minors. See <a href="#">BA Minor Requirements</a> for a list of subjects which may be declared as minors in the BA.</p> <p>A minor <b>offered by the Faculty of Arts</b> must include a minimum of 12 units to a maximum of 42 units at the senior level in an approved subject outside any major. Additional courses in a minor may not be taken as options. At least 6 units must be at the 300- or 400-level as specified by the department; some disciplines require specific courses and/or more than the specified Faculty minimums. See <a href="#">below</a> for specific requirements by subject. For Arts</p>

by the Faculty of Arts at the University of Alberta. For Science minors, a minimum of 9 units at the senior level must be satisfied with course work offered by the Faculty of Science at the University of Alberta. Senior-level courses in the minor taken as part of the Common Requirements must also be counted toward the minor. In addition to the Arts and Science disciplines noted in Programs and Certificates (including MATH, PSYCH and STAT), students may also select the minor in Business or a minor from the Faculty of Science from the list below. Students must meet the minor requirements of the Faculty of Arts as well as those of the Faculty of Science, which include requirements for specific courses [see [Minors \[Science\]](#)]. The requirements are a minimum of 24 units to a maximum of 36 units in the minor subject(s), including no more than 12 units at the junior level and at least 6 units at the 300-level or higher. Students taking a Science minor are not permitted to complete a minor in the same department as their major.

## BA Minor Requirements

minors, a minimum of 6 units at the senior level must be satisfied with coursework offered by the Faculty of Arts at the University of Alberta.

Students are also eligible to choose minors offered by other Faculties and/or Institutions ([include link to list below](#)), including the Alberta School of Business, Faculty of Native Studies, Faculty of Science, and MacEwan University (Arts and Cultural Management). Students must follow the requirements as outlined by those Faculties or as outlined in the individual minor requirements below.

### NOTE:

1. Students who choose to major in Mathematics cannot choose a minor offered by the Alberta School of Business or Faculty of Science. Students in the Mathematics major can only choose a minor that is offered by the Faculty of Arts, Faculty of Native Studies, or MacEwan University.

## BA Minor Requirements

- Ancient and Medieval Studies
- Anthropology
- Art & Design
- Arts and Cultural Management
- Biological Sciences (Faculty of Science)
- Business (Alberta School of Business)
- Chemistry (Faculty of Science)
- Christian Theology
- Classics
- Comparative Literature
- Computing Science (Faculty of Science)
- Creative Writing
- Drama
- Earth and Atmospheric Sciences (Faculty of Science)
- East Asian Studies
- Economics
- English
- Film Studies
- History
- History of Art, Design, and Visual Culture
- Human Geography
- International Studies
- Linguistics
- Mathematics (Faculty of Arts)
- Mathematics (Faculty of Science)
- Modern Languages and Cultural Studies
- Music
- Native Studies (Faculty of Native Studies)
- Philosophy
- Physical Sciences (Faculty of Science)
- Physics (Faculty of Science)
- Political Science
- Psychology
- Religious Studies
- Science, Technology, and Society
- Sociology
- Statistics (Faculty of Arts)
- Statistics (Faculty of Science)
- Women's and Gender Studies

## **A. Minors offered by the Faculty of Arts:**

- Ancient and Medieval Studies
- Anthropology
- Art & Design
- Christian Theology
- Classics
- Comparative Literature
- Creative Writing
- Drama
- East Asian Studies
- Economics
- English
- Film Studies
- History
- History of Art, Design, and Visual Culture
- Human Geography
- International Studies
- Linguistics
- Modern Languages and Cultural Studies
- Music
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Science, Technology, and Society
- Sociology
- Women's and Gender Studies

## **B. Minors offered by other Faculties/Institutions**

- Arts and Cultural Management (MacEwan University)
- Astrophysics (Faculty of Science)
- Biochemistry (Faculty of Science)
- Bioinformatics (Faculty of Science)
- Biological Sciences (Faculty of Science)
- Business (Alberta School of Business)
- Cell Biology (Faculty of Science)
- Chemistry (Faculty of Science)
- Climate Dynamics (Faculty of Science)
- Computing Science (Faculty of Science)
- Earth Sciences (Faculty of Science)
- Geophysics (Faculty of Science)

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• <a href="#">Mathematics (Faculty of Arts)</a></li><li>• <a href="#">Mathematics (Faculty of Science)</a></li><li>• <a href="#">Native Studies (Faculty of Native Studies)</a></li><li>• <a href="#">Pharmacology (Faculty of Science)</a></li><li>• <a href="#">Physics (Faculty of Science)</a></li><li>• <a href="#">Statistics (Faculty of Arts)</a></li><li>• <a href="#">Statistics (Faculty of Science)</a></li></ul> |
|--|---|

This package contains: [Graduate - Courses](#)

---

Faculty approval date:

AAC Date: November 21, 2023
-----------------------------

---

Page	Department or Unit	What is Changing
2	Music	615
4	Music	565, 566

<b>Faculty of Arts</b>	<b>Music</b>
Level of change (choose one only)	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Contact Person:	Fabio Morabito
Department/Unit Approval Date:	10.04.23 <b>EARLY IMPLIMENTAION (Contact DEPT)</b>

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Title - The proposed change is minimal, and is meant to streamline the title so as not to confuse students: getting rid of the roman numeral "I" because this is the only "Seminar in Musicology" offered in the department. There is no longer a "Seminar in Musicology II" so the "I" is superfluous.

Description - Currently there is no calendar description for this course, yet we would like students to get a sense of what the seminar offers, say, when compared to other courses in the calendar. We have a course running every other year which is compulsory for almost all our MA and PhD students: MUSIC 614 Proseminar in Musicology, which offers "An overview of history, methodology, and current issues in musicology." 614 is thus an introduction to the discipline as a whole. MUSIC 615, instead, is a variable topic course. It thus explores a specific topic in musicology, or is dedicated to a specific disciplinary issue. We would like students to get a sense of the difference between 614 and 615 from the calendar. So below we used the language already employed in our calendar for this very purpose, that is, to distinguish a variable topic course from the intro to that discipline (see the difference between Area Studies in Ethnomusicology 465/565, a special topic, and Issues in Ethnomusicology 665, the graduate intro to that discipline). The language we took from 465/565 is "variable topic course which may be taken more than once if topics vary" and added only a short sentence before that, clarifying the "focused" purview of the course (= not an introduction to the whole discipline). Both components of the new description are needed to spell out how MUSIC 615 is different from MUSIC 614.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
<b>MUSIC 615</b>  <b>Seminar in Musicology-I</b>  <b>Course Career</b> Graduate <b>Units</b> 3 <b>Approved Hours</b> 0-3S-0 <b>Fee index</b> 6 <b>Faculty</b> Arts <b>Department</b> Music <b>Typically Offered</b> either term  <b>Description</b>	<b>MUSIC 615</b>  <b>Seminar in Musicology</b>  <b>Course Career</b> Graduate <b>Units</b> 3 <b>Approved Hours</b> 0-3S-0 <b>Fee index</b> 6 <b>Faculty</b> Arts <b>Department</b> Music <b>Typically Offered</b> either term  <b>Description</b>



	<p>Explores a specific topic or issue in musicology. This is a variable topic course which may be taken more than once if topics vary.</p>
--	--

<b>Faculty of Arts</b>	<b>Music</b>
Level of change (choose one only)	<input type="checkbox"/> Undergraduate   x   Graduate
Contact Person:	<a href="#">Michael Frishkopf</a>
Department/Unit Approval Date:	Oct. 4 <sup>th</sup> , 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Many advanced Music courses are offered at two levels in a single classroom: upper undergraduate (4xx) and graduate (5xx). Most of these distinguish the 500 level in the title by prefixing the word “Advanced” (for instance: MUSIC 568 - Advanced Area Studies in Ethnomusicology: The Arab World) but not all. This situation appears to have resulted from an oversight, and therefore we are adding the word “Advanced” to MUSIC 565 and 566 in order to improve consistency and accuracy. Doing so will reduce student confusion when selecting courses, and also more accurately identify the difference between graduate and undergraduate levels.

Also variable topic courses are not always identified as such; in order to reduce student confusion when selecting courses, we wish to add this identification in the description of Music 566.

Finally, prerequisites vary; for ethnomusicology courses we sought to reduce them to “Consent of Department”, but have done so inconsistently. This change renders ethnomusicology prerequisites consistent for MUSIC 566.

**NOTE: MUSIC 566 was uploaded to central on October 30<sup>th</sup> and this change needs to override the previous one.**

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
MUSIC 565 - Area Studies in Ethnomusicology Course Career Graduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Arts Department Music Typically Offered either term  Description Variable topic course which may be taken more than once if topic(s) vary. May require payment of additional student instructional support fees when associated with Study Abroad program offered off	MUSIC 565 - <b>Advanced</b> Area Studies in Ethnomusicology Course Career Graduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Arts Department Music Typically Offered either term  Description Variable topic course which may be taken more than once if topic(s) vary. May require payment of additional student instructional support fees when

campus. Refer to the Tuition and Fees page in the University Regulations section of the Calendar.

MUSIC 566 - Topics in Ethnomusicology  
Course Career Graduate  
Units 3  
Approved Hours 3-0-0  
Fee index 6  
Faculty Arts  
Department Music  
Typically Offered either term

Description

Prerequisite: MUSIC 365 or consent of Department.

associated with Study Abroad program offered off campus. Refer to the Tuition and Fees page in the University Regulations section of the Calendar.

Prerequisite: consent of Department.

MUSIC 566 - **Advanced** Topics in Ethnomusicology  
Course Career Graduate  
Units 3  
Approved Hours 3-0-0  
Fee index 6  
Faculty Arts  
Department Music  
Typically Offered either term

Description

Variable topic course which may be taken more than once if topic(s) vary. Prerequisite: consent of Department.

This package contains: [Graduate - Courses](#)

---

Faculty approval date:

AAC Date: October 31, 2023
----------------------------

Page	Department or Unit	What is Changing
2	Linguistics	LING 518
3	Linguistics	LING 500
5	Women's and Gender Studies	GSJ 550

<b>Faculty of Arts</b>	<b>Department of Linguistics</b>
Level of change (choose one only)	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Contact Person:	Grace Jamieson (gjamies0@ualberta.ca)
Department/Unit Approval Date:	Department Meeting (Oct 23, 2023)

### Rationale for change

LING500 is the graduate version of LING400 (course is taught as LING400/500), so the course content is the same.

### Calendar Copy

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <del>New language</del>
Subject & Number: LING 500 Title: Psycholinguistics Course Career: Grad Units: 3 Approved Hours: 3 Fee index: 6 Faculty: Arts Department: Linguistics Typically Offered: every year Description: Issues and methods involved in the experimental study of language production, comprehension, and acquisition. <del>Prerequisite: LING 400 or consent of the department. Note: Open to senior undergraduates in Linguistics.</del> Recommended: A course in elementary statistics.	Subject & Number: LING 500 Title: Psycholinguistics Course Career: Grad Units: 3 Approved Hours: 3 Fee index: 6 Faculty: Arts Department: Linguistics Typically Offered: every year Description: Issues and methods involved in the experimental study of language production, comprehension, and acquisition. Recommended: A course in elementary statistics. <del>Note: Not open to students with credit in LING 400.</del>

<b>Faculty of Arts</b>	<b>Linguistics</b>
Level of change (choose one only)	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Contact Person:	Grace Jamieson (gjamies0@ualberta.ca)
Department/Unit Approval Date:	Dept Meeting: October 23, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Prosody, i.e. the melody and rhythm of speech, is an important component of language, performing such crucial functions as distinguishing questions from statements, highlighting new or important information and chunking speech into units for production, processing and interpretation. Moreover, like other areas of grammar, prosody differs cross-linguistically, making it both an important and an interesting subject of inquiry for linguists. Accordingly, while prosody research has practically exploded as a field of study since it was properly recognized as an area of linguistics in the second half of the 20<sup>th</sup> century. However, even though prosody is an important aspect of speech, it usually receives at best cursory mention in classes on phonetics and phonology, which instead focus on non-prosodic (segmental) aspects of spoken language. Therefore, our students currently do not learn about this central area of language in regularly taught courses.

This course has previously been taught as LING 499/599 in Winter 2017 (enrollment: 5 + 5 students), Winter 2018 (8 + 1 students) and Fall 2023 (3 + 8 students). It received positive evaluations from students, e.g. in Winter 2017, the average rating for “Overall, the quality of the course content was excellent” was 4.0 and for “I increased my knowledge of the subject areas in this course”, it was 4.5. No numeric assessments are available for 2018, since only 5 responses were received, or for 2023, since instruction is still ongoing, but evaluative comments suggest that students found the class both useful (e.g. appreciating “The wide range of content we explored; from prosodic emotions, and especially typological variation”, 2018) and engaging (e.g. “I found myself talking about lectures for about an hour after every class”, 2018).

Making this into a regular class with a dedicated course number will therefore benefit students, who will learn about an important area of linguistics. In addition, the class teaches them practical and transferable skills such as experimental design, presentation, and academic writing. Finally, adding this course will expand the number of (semi) regularly-taught higher-level linguistics classes, which will benefit students by adding more choice and flexibility to them, thereby also benefitting the department.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	Subject & Number: <b>LING 518</b>
Title	Title: <b>Prosody</b>
Course Career	Course Career: <b>Graduate</b>
Units	Units: <b>3</b>
Approved Hours	Approved Hours: <b>3-0-0</b>
Fee index	Fee index: 6
Faculty	Faculty: <b>Arts</b>
Department	Department: <b>Linguistics</b>
Typically Offered	Typically Offered: <b>Either term</b>

Description

Description: Introduction to prosody, i.e. the rhythm and melody of speech (e.g. stress and accentuation), including functions of prosody, basics of its linguistic analysis and practical skills for conducting experimental prosody research.

<b>Faculty of Arts</b>	<b>Women's and Gender Studies</b>
Level of change (choose one only)	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Contact Person:	Lise Gotell <a href="mailto:gotell@ualberta.ca">gotell@ualberta.ca</a> Grace Jamieson <a href="mailto:gjamies0@ualberta.ca">gjamies0@ualberta.ca</a>
Department/Unit Approval Date:	October 11, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This is a new course that reflects the primary area of research of one of the department's faculty members. It will be an upper level course that is cross-listed as an undergraduate and graduate course to provide all students, but especially the growing international student population within the department, a course that surveys WGS theoretical contributions and scholarship beyond the usual North American focus. This course places women, feminism, and activism in an international and transnational perspective and offers students the opportunity to examine how issues considered critical to the field of women's and gender studies are impacting people's lives globally in contemporary national contexts. It will not only look closely at how violence, economic marginality, intersections of race and gender, and varied strategies for development are affecting women in specific geographical locations, but we will also study how they organize within and across borders to combat these issues. A version of this course has been taught for the past three years in Winter term (WGS 298 Critical Issues). This course will serve not only students in WGS, but also students from disciplines across campus including political science, philosophy, and sociology. Given the global nature of the GSJ graduate cohorts, a transnational lens on social justice questions is urgently needed within the range of courses we offer.

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <del>New language</del>
Subject & Number	Subject & Number: <b>GSJ 550</b>
Title	Title: <b>Transnational Feminism</b>
Course Career	Course Career: <b>Graduate</b>
Units	Units: <b>3</b>
Approved Hours	Approved Hours: <b>3</b>
Fee index	Fee index: <b>6</b>
Faculty	Faculty: <b>Arts</b>
Department	Department: <b>Women's and Gender Studies</b>
Typically Offered	Typically Offered: <b>either term</b>
Description	Description: <b>This course engages in of women's issues globally and across nations. Topics may include feminist theorizing, women's movements, development, human rights, reproductive politics and social governance.</b>



Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The rationale for this change is to afford students additional flexibility in their course selection when transferring to the program. BUS 101 is also intended to socialize students to the BCom program, and as transfer students, it is the opinion of the administration that these students should be able to be successful in the program without this course, and with the ability to instead start with BUS 222 as their first BUS series course, and to have room for an additional Free Elective.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> <b>New language</b>
<h2>Majors in Business</h2> <hr/> <p>Students in the Bachelor of Commerce Program must declare a major from the selection below once they are eligible and then follow the specific course requirements of the major. All degree requirements must be met within 120 units.</p>	<h2>Majors in Business</h2> <hr/> <p>Students in the Bachelor of Commerce Program must declare a major from the selection below once they are eligible and then follow the specific course requirements of the major. All degree requirements must be met within 120 units.</p>

## Sequence of Courses – Year 1 Foundational Year

---

For students admitted directly from High School.

- 3 units in 100-level English (except ENGL 150) **OR** 3 units in 100-level WRS
- BUS 101 - Foundations of Business or equivalent (See Note 1)
- ECON 101 - Introduction to Microeconomics
- ECON 102 - Introduction to Macroeconomics
- MATH 154 - Calculus for Business and Economics I or equivalent
- STAT 161 - Introductory Statistics for Business and Economics or equivalent
- ACCTG 211 - Introduction to Accounting for Financial Performance
- SEM 210 - Introduction to Management, Organization and Entrepreneurship
- 6 units in electives outside of Business (See Note 2)

### Notes

---

1. ~~Post-secondary transfer students will take BUS 101 in their first year in the Faculty of Business~~

## Sequence of Courses – Year 1 Foundational Year

---

For students admitted directly from High School.

- 3 units in 100-level English (except ENGL 150) **OR** 3 units in 100-level WRS
- BUS 101 - Foundations of Business or equivalent (See Note 1)
- ECON 101 - Introduction to Microeconomics
- ECON 102 - Introduction to Macroeconomics
- MATH 154 - Calculus for Business and Economics I or equivalent
- STAT 161 - Introductory Statistics for Business and Economics or equivalent
- ACCTG 211 - Introduction to Accounting for Financial Performance
- SEM 210 - Introduction to Management, Organization and Entrepreneurship
- 6 units in electives outside of Business (See Note 2)

### Notes

---

1. Post-secondary transfer students will not be required to take BUS 101. BUS 101 will be replaced by a Free Elective in the student's course

2. If a student already has a preference for a particular Major when admitted to the Bachelor of Commerce Program, they are strongly advised to consider reviewing the requirements of their preferred major to determine if there are any courses that they would benefit from taking as their elective outside of Business. For example, BTM majors may benefit from taking CMPUT 174 and/or CMPUT 175 as electives outside of Business early in the Program, whereas International Business Majors may benefit from using their electives outside of Business to begin their Language Requirement.

sequencing. These students will take BUS 222 in their first year in the program.

2. If a student already has a preference for a particular Major when admitted to the Bachelor of Commerce Program, they are strongly advised to consider reviewing the requirements of their preferred major to determine if there are any courses that they would benefit from taking as their elective outside of Business. For example, BTM majors may benefit from taking CMPUT 174 and/or CMPUT 175 as electives outside of Business early in the Program, whereas International Business Majors may benefit from using their electives outside of Business to begin their Language Requirement.

## Sequence of Courses - Year 2 Core Business Year

---

### Year Two—Fall

- [BUS 222 - Professionalism and Responsible Impact](#)
- [FIN 201 - Introduction to Finance](#)
- [MGTSC 212 - Probability and Statistics for Business](#)
- [MARK 201 - Introduction to Marketing](#)

## Sequence of Courses - Year 2 Core Business Year

---

### Year Two—Fall

- [BUS 222 - Professionalism and Responsible Impact](#)
- [FIN 201 - Introduction to Finance](#)

- [B LAW 201 - Legal Foundations of the Canadian Economy](#)

## Year Two—Winter

---

- [ACCTG 222 - Introduction to Accounting for Management Decision Making](#)
- [BU EC 211 - Business Economics, Organizations and Management \(See Note 2\)](#) **OR**

[ECON 281 - Intermediate Microeconomic Theory I \(See Note 2\)](#)

- [OM 252 - Operations Management](#)
- [BTM 211 - Management Information Systems](#)
- 3 units in electives outside Business (See Note 1)

## Notes

---

1. If a student already has a preference for a particular Major when admitted to the Bachelor of Commerce Program, they are strongly advised to consider reviewing the requirements of their preferred major to determine if there are any courses that they would benefit from taking as their elective outside of Business. For example, BTM majors may benefit from taking CMPUT 174 and/or CMPUT 175 as electives outside of

- [MGTSC 212 - Probability and Statistics for Business](#)
- [MARK 201 - Introduction to Marketing](#)
- [B LAW 201 - Legal Foundations of the Canadian Economy](#)

## Year Two—Winter

---

- [ACCTG 222 - Introduction to Accounting for Management Decision Making](#)
- [BU EC 211 - Business Economics, Organizations and Management \(See Note 2\)](#) **OR**

[ECON 281 - Intermediate Microeconomic Theory I \(See Note 2\)](#)

- [OM 252 - Operations Management](#)
- [BTM 211 - Management Information Systems](#)
- 3 units in electives outside Business (See Note 1)

## Notes

---

4. If a student already has a preference for a particular Major when admitted to the Bachelor of Commerce Program, they are strongly advised to consider reviewing the requirements of their preferred major to determine if there are any courses that they would benefit from taking as their elective outside of Business. For

<p>Business early in the Program, whereas International Business Majors may benefit from using their electives outside of Business to begin their Language Requirement.</p> <ol style="list-style-type: none"><li>2. Students planning to take advanced coursework in Economics may wish to substitute ECON 281, which is accepted as a substitute for BUEC 211.</li><li>3. Students who transfer to the Bachelor of Commerce Program are advised to take as many Core courses as possible prior to their Major Selection. If a student has sufficient credit, they may need to select their Major upon enrolment.</li></ol>	<p>example, BTM majors may benefit from taking CMPUT 174 and/or CMPUT 175 as electives outside of Business early in the Program, whereas International Business Majors may benefit from using their electives outside of Business to begin their Language Requirement.</p> <ol style="list-style-type: none"><li>5. Students planning to take advanced coursework in Economics may wish to substitute ECON 281, which is accepted as a substitute for BUEC 211.</li><li>6. Students who transfer to the Bachelor of Commerce Program are advised to take as many Core courses as possible prior to their Major Selection. If a student has sufficient credit, they may need to select their Major upon enrolment.</li></ol>
--	---

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

We deemed BUS 101 no longer required for transfer students in our General program; we are removing BUS 101 to better align it with the requirements of transfer students. Adjustments were made in course sequencing to move the other BUS courses up a term each.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47969&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47969&amp;returnto=12336</a>	
<b>Current Copy:</b> <span style="background-color: yellow;">Removed language</span>	<b>Proposed Copy:</b> <span style="background-color: yellow;">New language</span>
<h1 style="text-align: center;">Bachelor of Commerce After Degree</h1> <hr style="width: 50%; margin: 10px auto;"/> <h2 style="text-align: center;">Program</h2>	<h1 style="text-align: center;">Bachelor of Commerce After Degree</h1> <hr style="width: 50%; margin: 10px auto;"/> <h2 style="text-align: center;">Program</h2>

The After-Degree program is for students who already possess a University degree to add to their qualifications by acquiring basic business skills. The After-Degree program is not open to students holding a previous degree that is the equivalent of a Business degree, or to students who have completed a sufficient number of Business or related courses so that they could not meet the requirements of [Students in the BCom After-Degree and Program Information](#). After-Degree students may major in any available area. They should consider a major complementary to their previous degree.

After-Degree Students are normally expected to fulfill the course load requirements of [Course Load Requirements](#). As a full-time student, the Bachelor of Commerce After Degree can typically be completed in between 2 and 2.5 years (\*60 units - \*75 units.) There is the possibility as well to accelerate your program by taking courses (if they are offered) in the Spring and Summer terms.

The After-Degree program is for students who already possess a University degree to add to their qualifications by acquiring basic business skills. The After-Degree program is not open to students holding a previous degree that is the equivalent of a Business degree, or to students who have completed a sufficient number of Business or related courses so that they could not meet the requirements of [Students in the BCom After-Degree and Program Information](#). After-Degree students may major in any available area. They should consider a major complementary to their previous degree.

After-Degree Students are normally expected to fulfill the course load requirements of [Course Load Requirements](#). As a full-time student, the Bachelor of Commerce After Degree can typically be completed in between 2 and 2.5 years (\*60 units - \*75 units.) There is the possibility as well to accelerate your program by taking courses (if they are offered) in the Spring and Summer terms.

There is limited space available for students who wish to pursue their program on a Part-time basis. Prior written permission of the Faculty of Business is required. Students are still required to meet all other requirements of the program including the time limit on completion of the degree in [Time Limit to Complete Program](#). Students interested in pursuing this option should contact the Undergraduate Programs Office.

## Sequence of Courses

---

### Year One—Fall

---

- ~~BUS 101 – Foundations of Business~~ or equivalent
- [ACCTG 211 - Introduction to Accounting for Financial Performance](#)
- [MARK 201 - Introduction to Marketing](#)
- [MGTSC 212 - Probability and Statistics for Business](#)

There is limited space available for students who wish to pursue their program on a Part-time basis. Prior written permission of the Faculty of Business is required. Students are still required to meet all other requirements of the program including the time limit on completion of the degree in [Time Limit to Complete Program](#). Students interested in pursuing this option should contact the Undergraduate Programs Office.

## Sequence of Courses

---

### Year One—Fall

---

- [BUS 222 - Professionalism and Responsible Impact](#)
- [ACCTG 211 - Introduction to Accounting for Financial Performance](#)
- [MARK 201 - Introduction to Marketing](#)
- [MGTSC 212 - Probability and Statistics for Business](#)



- [B LAW 201 - Legal Foundations of the Canadian Economy](#)

## Year One—Winter

---

- ~~[BUS 222 - Professionalism and Responsible Impact](#)~~
- [FIN 201 - Introduction to Finance](#)
- [SEM 210 - Introduction to Management, Organization and Entrepreneurship](#)
- [ACCTG 222 - Introduction to Accounting for Management Decision Making](#)
- [BTM 211 - Management Information Systems](#)

## Year Two

---

- ~~[BUS 303 - Application of Business Concepts](#)~~
- BUS 404 - Capstone Project
- OM 252 - Operations Management
- BUEC 211 - Business Economics, Organizations and Management OR

- [B LAW 201 - Legal Foundations of the Canadian Economy](#)

## Year One—Winter

---

- [BUS 303 - Application of Business Concepts](#)
- [FIN 201 - Introduction to Finance](#)
- [SEM 210 - Introduction to Management, Organization and Entrepreneurship](#)
- [ACCTG 222 - Introduction to Accounting for Management Decision Making](#)
- [BTM 211 - Management Information Systems](#)

## Year Two

---

- BUS 404 - Capstone Project
- OM 252 - Operations Management
- BUEC 211 - Business Economics, Organizations and Management OR
- ECON 281 - Intermediate Microeconomic Theory I

ECON 281 - Intermediate Microeconomic Theory I

- 18 units in Senior Business requirements (See Note 1)

## Year Three

---

- 0-15 units in Senior Business requirements (See Note 1)

## Notes

---

1. The number of Senior Business courses allowed will depend in part on the amount of exemptions an After-Degree student may be given. Students possessing exemptions in any of the required Year One courses will have their Year One schedule adjusted to reflect this. Students should consult the Undergraduate Office with respect to their program requirements before commencing Year One. After-Degree students must declare a major, and must follow the requirements for that

- 21 units in Senior Business requirements (See Note 1)

## Year Three

---

- 0-15 units in Senior Business requirements (See Note 1)

## Notes

---

1. The number of Senior Business courses allowed will depend in part on the amount of exemptions an After-Degree student may be given. Students possessing exemptions in any of the required Year One courses will have their Year One schedule adjusted to reflect this. Students should consult the Undergraduate Office with respect to their program requirements before commencing Year One. After-Degree students must declare a major, and must follow the requirements for that major. After-Degree students take a minimum of 60 units and a maximum of 75 units at the University of

<p>major. After-Degree students take a minimum of 60 units and a maximum of 75 units at the University of Alberta while registered as a student in the Faculty of Business.</p> <ol style="list-style-type: none"> <li>2. Students in the International Business major should commence their language courses in Year 1 to ensure they can be completed in a timely fashion. Students should consult the Undergraduate Office with respect to their program requirements before commencing Year One.</li> <li>3. Students in the Business Technology Management major should take CMPUT 174 and CMPUT 175 in their first year. Students should consult the Undergraduate Office with respect to their program requirements before commencing Year One.</li> <li>4. Missing prerequisite courses are required to be made up in the first year of the program following admission. Courses taken as part of the preprofessional requirements do not count toward the total of 60-75</li> </ol>	<p>Alberta while registered as a student in the Faculty of Business.</p> <ol style="list-style-type: none"> <li>2. Students in the International Business major should commence their language courses in Year 1 to ensure they can be completed in a timely fashion. Students should consult the Undergraduate Office with respect to their program requirements before commencing Year One.</li> <li>3. Students in the Business Technology Management major should take CMPUT 174 and CMPUT 175 in their first year. Students should consult the Undergraduate Office with respect to their program requirements before commencing Year One.</li> <li>4. Missing prerequisite courses are required to be made up in the first year of the program following admission. Courses taken as part of the preprofessional requirements do not count toward the total of 60-75 units in required courses for After-Degree students.</li> </ol>
--	--

<p>units in required courses for After-Degree students.</p>	
---	--

**Reviewed/Approved by:**

<p>Seconded Motion at Business Council - November 27, 2023</p>
<p>Seconded Motion USPC Email Thread - November 14th, 2023</p>

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Each Major Course Sequence will be adjusted to remove courses that are being placed in the 1st or 2nd year that were previously listed on these pages, and to amend any notes to align with the new course sequencing. BUS 303 and BUS 404 will also be added into the Course Sequencing, and any editorial changes will also be made, such as changing course numbers that have been renumbered or other corrections and clarifications. In addition, the following courses have been removed from the Designated SEM Electives in the notes as they have not been offered by the department in a number of years: SEM 406, SEM 407, SEM 423, and SEM 437. In addition, SEM 430 has been removed as a requirement for both the Major and Minor and replaced with SEM 330, at the instruction of the teaching department. Additionally, SEM 404 was removed from a concentration due to academic reasons, and replaced with SEM 321 and SEM 322, at the recommendation of the teaching department as there were no organizational behavior courses in the list. SEM 488 was removed from the Entrepreneurship and Innovation Minor and replaced with SEM 321, also at the recommendation of the teaching department for academic reasons, as SEM 488 are topics courses, and SEM 321 is a foundational course in management and organizational theory.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <span style="background-color: yellow;">Removed language</span>	<b>Proposed Copy:</b> <span style="background-color: yellow;">New language</span>

Major in  
Entrepreneurship  
and Innovation  
[Business]

---

Sequence of Courses

---

~~Year Two – Fall~~

---

- ~~• ACCTG 311 – Introduction to Accounting for Financial Performance~~
- ~~• BUS 201 – Foundations of Business~~
- ~~• MGTSC 312 – Probability and Statistics for Business~~
- ~~• MARK 301 – Introduction to Marketing~~
- ~~• 3 units in electives outside Business (See Note 1)~~

Major in  
Entrepreneurship  
and Innovation  
[Business]

---

Sequence of Courses

---

## Year Two – Winter

---

- ACCTG 322 – Introduction to Accounting for Management Decision Making
- FIN 301 – Introduction to Finance
- SEM 310 – Introduction to Management, Organization and Entrepreneurship
- 3 units in electives outside Business (See Note 1)
- 3 units in free electives (See Note 1)

## Year Three

---

- B LAW 301 – Legal Foundations of the Canadian Economy (See Note 2)
- BTM 311 – Management Information Systems (See Note 3)
- SEM 430 – Introduction to Small Business Management

## Year Three

---

- BUS 303 - Application of Business Concepts
- SEM 330 - Exploring Innovation and Entrepreneurship
- SEM 431 - New Venture Creation and Organization
- 9 units in SEM electives (See Note 2)

- SEM 431 - New Venture Creation and Organization (See Note 3)
- OM 352 - Operations Management (See Note 3)
- 9 units in SEM electives (See Note 4)
- 3 units in senior Business electives outside SEM
- 3 units in free electives (See Note 1)

## Year Four

ACCTG 412 - Financial Reporting for Managers and Analysts (See Note 3)

B LAW 402 - Business Contracts **OR**  
B LAW 422 - Law of Business Organizations (See Note 3)

SEM 441 - Strategy and Innovation  
3 units in SEM electives (See Note 4)  
~~3 units in 300 or 400 level MARK~~  
~~3 in senior Business electives outside SEM~~  
12 units in free electives (See Note 1)

## Notes

- 12 units in free electives (See Note 1)

## Year Four

- BUS 404 - Capstone Project
- ACCTG 412 - Financial Reporting for Managers and Analysts
- 
- B LAW 402 - Business Contracts **OR**
- B LAW 422 - Law of Business Organizations
- 
- SEM 441 - Strategy and Innovation
- 6 units in SEM electives (See Note 2)
- 12 units in free electives (See Note 1)

## Notes



1. See Policy on Elective Courses and Free Electives. Entrepreneurship and Innovation students are encouraged to take SOC 100.

~~2. This course can be taken in either term.~~

~~3. This course can be taken in either term in either Year Three or Year Four but should be taken after SEM 430.~~

4. Designated SEM electives:

- Family enterprise (SEM 427, SEM 428, SEM 442, BUEC 444 - European Study Tour)
- Social entrepreneurship/sustainability (SEM 438, SEM 345, SEM 488 – Business and Sustainability)
- Organizational Behaviour/Leadership (SEM 402, SEM 404, SEM 405, SEM 406, SEM 407, SEM 411, SEM 412, SEM 416, SEM 423, SEM 430, SEM 433, SEM 435, SEM 437)

## Minors

---

1. See Policy on Elective Courses and Free Electives. Entrepreneurship and Innovation students are encouraged to take SOC 100.

2. Designated SEM electives:

- Family enterprise (SEM 427, SEM 428, SEM 442, BUEC 444 - Family Business Study Tour)
- Social entrepreneurship/sustainability (SEM 438, SEM 345, SEM 488 – Business and Sustainability)
- Organizational Behaviour/Management/Leadership (SEM 321, SEM 322, SEM 402, SEM 404, SEM 405, SEM 411, SEM 412, SEM 416, SEM 430, SEM 433, SEM 435)

## Minors

---

1. Students with a declared major in Entrepreneurship and Innovation may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may complete a minor in Entrepreneurship and Innovation as specified below:

## Entrepreneurship and Innovation Minor:

---

- ~~SEM 430 - Introduction to Small Business Management~~
- [SEM 431 - New Venture Creation and Organization](#)

6 units of

---

- [SEM 427 - Strategic Consulting for Family Businesses](#)
- [SEM 428 - Managing Family Enterprise](#)
- [SEM 441 - Strategy and Innovation](#)

1. Students with a declared major in Entrepreneurship and Innovation may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may complete a minor in Entrepreneurship and Innovation as specified below:

## Entrepreneurship and Innovation Minor:

---

- [SEM 330 - Exploring Innovation and Entrepreneurship](#)
- [SEM 431 - New Venture Creation and Organization](#)

6 units of

---

- [SEM 321 - Introduction to Strategic Management and Organization Design](#)

<ul style="list-style-type: none"><li>• <u>SEM 442 - International Family Enterprise</u></li><li>• <u>SEM 345 - Social Entrepreneurship</u></li><li>• <u>SEM 488 - Selected Topics in Organization Theory</u></li></ul>	<ul style="list-style-type: none"><li>• <u>SEM 427 - Strategic Consulting for Family Businesses</u></li><li>• <u>SEM 428 - Managing Family Enterprise</u></li><li>• <u>SEM 441 - Strategy and Innovation</u></li><li>• <u>SEM 442 - International Family Enterprise</u></li><li>• <u>SEM 345 - Social Entrepreneurship</u></li></ul>
---	--

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Each Major Course Sequence will be adjusted to remove courses that are being placed in the 1st or 2nd year that were previously listed on these pages, and to amend any notes to align with the new course sequencing. BUS 303 and BUS 404 will also be added into the Course Sequencing, and any editorial changes will also be made, such as changing course numbers that have been renumbered or other corrections and clarifications. In addition, the Human Resource Management minor has been amended to require SEM 311 and SEM 441 as required courses along with \*6 Credits from the listed courses, rather than any \*12 Credits from the listed courses. This change was made at the recommendation of the teaching department for academic reasons to align the minor more with the major. Some out of date courses were also removed from the SEM Human Resource Management electives list.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;pooid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;pooid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
<h1>Major in Human Resource</h1>	<h1>Major in Human Resource</h1>

Management

[Business]

Sequence of Courses

~~Year Two – Fall~~

- ~~• ACCTG 311 – Introduction to Accounting for Financial Performance~~
- ~~• BUS 201 – Foundations of Business~~
- ~~• MARK 301 – Introduction to Marketing~~
- ~~• MGTSC 312 – Probability and Statistics for Business~~
- ~~• 3 units in electives outside Business (See Note 1)~~

Management

[Business]

Sequence of Courses

## Year Two – Winter

- ACCTG 322 – Introduction to Accounting for Management Decision Making (See Note 3)
- FIN 301 – Introduction to Finance
- SEM 310 – Introduction to Management, Organization and Entrepreneurship
- 3 units in electives outside Business (See Note 1)
- 3 units in free electives (See Note 1)

## Year Three

- B LAW 301 – Legal Foundations of the Canadian Economy (See Note 2)
- SEM 311 - HRM: Managing the Work Force in Canada (See Note 5)
- 6 units in SEM Human Resource Management electives (See Note 4)
- 9 units in Senior Business electives (See Note 6)

## Year Three

- BUS 303 - Application of Business Concepts
- SEM 311 - HRM: Managing the Work Force in Canada (See Note 3)
- 6 units in SEM Human Resource Management electives (See Note 2)
- 18 units in free electives (See Note 1)

- ~~3 units in electives outside Business (See Note 1)~~

- ~~6 units in free electives (See Notes 1 and 6)~~

## Year Four

---

- SEM 441 - Strategy and Innovation
- 9 units in SEM Human Resource Management electives (See Note 4)
- 3 units in SEM electives (unrestricted)
- ~~6 units in Senior Business electives (See Note 6)~~
- ~~3 units in electives outside Business (See Note 1)~~
- ~~6 units in free electives (See Notes 1 and 6)~~

## Notes

---

1. See Policy on Elective Courses and Free Electives.

## Year Four

---

- BUS 404 - Capstone Project
- SEM 441 - Strategy and Innovation
- 9 units in SEM Human Resource Management electives (See Note 2)
- 3 units in SEM electives (unrestricted)
- 12 units in free electives (See Note 1)

## Notes

---

1. See Policy on Elective Courses and Free Electives.

2.

~~2. May be taken in either of Year Three or Year Four.~~

~~3. May be taken in any year except Year Two, Fall Term.~~

~~4.~~

a. SEM Human Resource Management electives may be chosen from the following: [SEM 411](#), [SEM 412](#), [SEM 413](#), [SEM 414](#), [SEM 415](#), [SEM 416](#), [SEM 417](#), [SEM 418](#), ~~[SMO 421](#)~~, [SEM 432](#), ~~[SEM 495](#)~~.

b. One of the following may be substituted for the above SEM courses: [SOC 363](#); [ECON 331](#); [ENGG 404](#), [ENGG 406](#).

~~5. [SEM 311](#) should be taken as soon as possible in Year Three.~~

~~6. See [Policy on Elective Courses](#). Human Resource Management students are encouraged to take [OM 352](#).~~

## Minors

---

a. SEM Human Resource Management electives may be chosen from the following: [SEM 411](#), [SEM 412](#), [SEM 413](#), [SEM 414](#), [SEM 415](#), [SEM 416](#), [SEM 417](#), [SEM 418](#), [SEM 419](#), [SEM 432](#)

b. One of the following may be substituted for the above SEM courses: [SOC 363](#); [ECON 331](#); [ENGG 404](#), [ENGG 406](#).

~~3. [SEM 311](#) should be taken as soon as possible in Year Three.~~

~~4. For information on the CPHR Designation and which courses are required to waive the National Knowledge Exams, please reference the following: [External Certifications and Designations](#)~~

## Minors

---



1. Students with a declared major in Human Resource Management may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may complete a minor in Human Resource Management by completing **12** units in the following SEM courses: [SEM 311](#), [SEM 411](#), [SEM 412](#), [SEM 413](#), [SEM 414](#), [SEM 415](#), [SEM 416](#), [SEM 417](#), [SEM 418](#), [SEM 432](#). In addition to the 12 units required for a minor, it is strongly recommended that students take [SEM 441](#).

1. Students with a declared major in Human Resource Management may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may complete a minor in Human Resource Management by completing [SEM 311](#) and [SEM 441](#) as well as **6** units in the following SEM courses: [SEM 414](#), [SEM 415](#), [SEM 416](#), [SEM 419](#)

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Each Major Course Sequence will be adjusted to remove courses that are being placed in the 1st or 2nd year that were previously listed on these pages, and to amend any notes to align with the new course sequencing. BUS 303 and BUS 404 will also be added into the Course Sequencing, and any editorial changes will also be made, such as changing course numbers that have been renumbered or other corrections and clarifications. Amended to add new courses into the major course sequencing and SEM elective list as per the Academic Department to better differentiate from the HRM major.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
Major in Strategic Management and Organization [Business]	Major in Strategic Management and Organization [Business]

---

## Sequence of Courses

---

~~Year Two - Fall~~

---

## Sequence of Courses

---

---

- ~~ACCTG 311—Introduction to Accounting for Financial Performance~~

- ~~BUS 201—Foundations of Business~~

- ~~MARK 301—Introduction to Marketing~~

- ~~MGTSC 312—Probability and Statistics for Business~~

- ~~3 units in electives outside Business (See Note 1)~~

## ~~Year Two—Winter~~

---

- ~~ACCTG 322—Introduction to Accounting for Management Decision Making~~ (See Note 2)

- ~~FIN 301—Introduction to Finance~~

- ~~SEM 310—Introduction to Management, Organization and Entrepreneurship~~

- ~~3 units in electives outside Business (See Note 1)~~

- ~~3 units in free electives (See Note 1)~~

## Year Three

---

- ~~SEM 321 - Introduction to Strategic Management and Organization Design~~ (See Note 5)
- ~~9 units in Senior Business electives~~ (See Note 3)
- ~~9~~ units in SEM electives (See Note 4)
- ~~3 units in electives outside Business~~ (See Note 1)
- ~~6~~ units in free electives (See Note 1)

## Year Four

---

- ~~SEM 441 - Strategy and Innovation~~
- ~~9~~ units in SEM electives (unrestricted)
- ~~6 units in Senior Business electives~~ (See Note 3)
- ~~9~~ units in free electives (See Note 1)
- ~~3 units in electives outside Business~~ (See Note 1)

## Year Three

---

- ~~BUS 303 - Application of Business Concepts~~
- ~~SEM 330 - Exploring Innovation and Entrepreneurship~~
- ~~SEM 322 - Leadership and Organizational Behavior~~
- ~~6~~ units in SEM electives (See Note 2)
- ~~15~~ units in free electives (See Note 1)

## Year Four

---

- ~~BUS 404 - Capstone Project~~
- ~~SEM 420 - Strategic Decision Making with Management Analytics~~
- ~~SEM 441 - Strategy and Innovation~~
- ~~6~~ units in SEM electives (See Note 3)
- ~~15~~ units in free electives (See Note 1)

## Notes

---

1. See [Policy on Elective Courses](#)
2. May be taken in either Year Three or Four.
3. See [Courses in the Faculty of Business](#) Strategic Management and Organization students are encouraged to take [OM 352](#).
4. Any SEM course excluding [SEM 488](#) and [SEM 495](#).
5. May be taken in any term.

## Minors

---

1. Students with a declared major in Strategic Management and Organization may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.

## Notes

---

1. See [Policy on Elective Courses](#)
2. Any SEM course excluding [SEM 488](#) and [SEM 495](#).
3. Take two electives from the following list: SEM 402, SEM 404 or BUS 301, SEM 405, SEM 406, SEM 407, SEM 427, SEM 433, SEM 436, SEM 438, SEM 488, SEM 495, BTM 424, BUS 480, BUS 490 and BUS 491, OM 468
4. May be taken in any term.

## Minors

---

1. Students with a declared major in Strategic Management and Organization may choose to do a minor in any subject area of

2. Students with a declared major in another area may complete a minor in Strategic Management and Organization by fulfilling the requirements of [Minors for Business Students](#). [SEM 321](#) and [SEM 441](#) are strongly recommended.

Business. See [Minors for Business Students](#). Minors are not required.

2. Students with a declared major in another area may complete a minor in Strategic Management and Organization by fulfilling the requirements of [Minors for Business Students](#). [SEM 321](#) and [SEM 441](#) are strongly recommended.

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

To remove the note stating that OM 352 (now 252) is a requirement of the OM Minor, as this is now a required Core course, and thus should not be included in the minor.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
Major in Operations Management [Business]	Major in Operations Management [Business]
_____	_____



## Sequence of Courses

---

### Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- 12 units in Operations Management electives (See Note 2)
- 15 units in free electives (See Note 1)

### Year Four

---

- [BUS 404 - Capstone Project](#)
- 9 units in Operations Management electives (See Note 2)
- 18 units in free electives (See Note 1)

### Notes

---

1. See [Policy on Elective Courses](#)
2. Operations Management electives may be chosen from any 400-level OM courses and from a list of

## Sequence of Courses

---

### Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- 12 units in Operations Management electives (See Note 2)
- 15 units in free electives (See Note 1)

### Year Four

---

- [BUS 404 - Capstone Project](#)
- 9 units in Operations Management electives (See Note 2)
- 18 units in free electives (See Note 1)

### Notes

---

3. See [Policy on Elective Courses](#)
4. Operations Management electives may be chosen from any 400-level OM courses and from a list of

additional approved courses available from the Department of Accounting, Operations, and Information Systems. At least four of the seven Operations Management electives must be chosen from 400-level OM courses or [MGTSC 405](#)

## Minors

---

1. Students with a declared major in Operations Management may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required. Students are urged to select areas complementary to the Operations Management major. Some suggestions and details are listed next. Students may also wish to consider the Cooperative Education program (see [Bachelor of Commerce Cooperative Education](#)).
2. Students with a declared major in another area may complete a minor in Operations Management by

additional approved courses available from the Department of Accounting, Operations, and Information Systems. At least four of the seven Operations Management electives must be chosen from 400-level OM courses or [MGTSC 405](#)

## Minors

---

1. Students with a declared major in Operations Management may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required. Students are urged to select areas complementary to the Operations Management major. Some suggestions and details are listed next. Students may also wish to consider the Cooperative Education program (see [Bachelor of Commerce Cooperative Education](#)).
2. Students with a declared major in another area may complete a minor in Operations Management by

fulfilling the requirements of [Minors for Business Students](#). ~~3 units must be in OM 352.~~

3. Students wishing to construct informal programs of study outside the Faculty of Business should consider the following suggestions:
  - a. Economics: Any senior ECON course, with Departmental approval.
  - b. Statistics/Mathematics Computing Science: Additional work is recommended for students who are interested in graduate studies, for example, [MATH 373](#) and [STAT 265](#).

## Operations Management Concentrations

---

Students majoring in Operations and Supply Chain Management can tailor their program to focus on either Operations and Supply Chain Management (the purchasing,

fulfilling the requirements of [Minors for Business Students](#).

3. Students wishing to construct informal programs of study outside the Faculty of Business should consider the following suggestions:
  - a. Economics: Any senior ECON course, with Departmental approval.
  - b. Statistics/Mathematics Computing Science: Additional work is recommended for students who are interested in graduate studies, for example, [MATH 373](#) and [STAT 265](#).

## Operations Management Concentrations

---

Students majoring in Operations and Supply Chain Management can tailor their program to focus on either Operations and Supply Chain Management (the purchasing, transformation and delivery of goods and

transformation and delivery of goods and services to customers) or Business Analytics (modeling and analysis to support decisions in operations and other fields). Recommended courses for each of these streams are listed below.

## Operations and Supply Chain Management:

---

- [OM 410 - Supply Chain Management](#)
- [OM 411 - Business Process Management](#)
- [OM 461 - Distribution and Logistics Analytics](#)
- [OM 468 - Business Analytics Consulting Project](#)
- [MGTSC 405 - Forecasting for Planners and Managers](#)
- [BTM 424 - Introduction to Information Systems Project Management](#)
- [BTM 426 - Technology-Enabled Business Process Management](#)

services to customers) or Business Analytics (modeling and analysis to support decisions in operations and other fields). Recommended courses for each of these streams are listed below.

## Operations and Supply Chain Management:

---

- [OM 410 - Supply Chain Management](#)
- [OM 411 - Business Process Management](#)
- [OM 461 - Distribution and Logistics Analytics](#)
- [OM 468 - Business Analytics Consulting Project](#)
- [MGTSC 405 - Forecasting for Planners and Managers](#)
- [BTM 424 - Introduction to Information Systems Project Management](#)
- [BTM 426 - Technology-Enabled Business Process Management](#)
- other courses in business technology management

- other courses in business technology management

## Business Analytics:

---

- [OM 420 Predictive Business Analytics](#)
- [OM 421 Data Visualization](#)
- [OM 422 - Simulation and Computer Modelling Techniques in Management](#)
- [OM 471 - Decision Support Systems](#)
- [OM 468 - Business Analytics Consulting Project](#)
- [MGTSC 405 - Forecasting for Planners and Managers](#)
- [BTM 412 - Managerial Support Systems](#)
- other courses in business technology management, finance, marketing, mathematics, statistics, and economics.

## Professional Designations

## Business Analytics:

---

- [OM 420 Predictive Business Analytics](#)
- [OM 421 Data Visualization](#)
- [OM 422 - Simulation and Computer Modelling Techniques in Management](#)
- [OM 471 - Decision Support Systems](#)
- [OM 468 - Business Analytics Consulting Project](#)
- [MGTSC 405 - Forecasting for Planners and Managers](#)
- [BTM 412 - Managerial Support Systems](#)
- other courses in business technology management, finance, marketing, mathematics, statistics, and economics.

## Professional Designations

---

Many Operations Management positions require a professional designation. Elective

Many Operations Management positions require a professional designation. Elective courses in Operations Management help prepare students for pursuing professional designations and count towards the requirements of some professional designations. Please consult the appropriate governing body.

1. CPIM (Certified in Production and Inventory Management) and CSCP (Certified Supply Chain Professional): Offered by ASCM: The Association for Supply Chain Management.
2. SCMP (Strategic Supply chain Management Professional): Offered by the Supply Chain Canada
3. CCLP: Offered by the CITT, Canada's Logistics Association.
4. CORS Diploma: Offered by the Canadian Operational Research Society.
5. CAP (Certified Analytics Professional): Offered by INFORMS (The Institute for Operations

courses in Operations Management help prepare students for pursuing professional designations and count towards the requirements of some professional designations. Please consult the appropriate governing body.

1. CPIM (Certified in Production and Inventory Management) and CSCP (Certified Supply Chain Professional): Offered by ASCM: The Association for Supply Chain Management.
2. SCMP (Strategic Supply chain Management Professional): Offered by the Supply Chain Canada
3. CCLP: Offered by the CITT, Canada's Logistics Association.
4. CORS Diploma: Offered by the Canadian Operational Research Society.
5. CAP (Certified Analytics Professional): Offered by INFORMS (The Institute for Operations Research and the Management Sciences).

Research and the Management Sciences).	
--	--

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
Seconded Motion USPC Email Thread - November 14th, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Changing the requirements of the Business Economics and Law minor to remove the new 'Core' courses of B LAW 201 and BUEC 211 to be 12 units of BUEC or B LAW 3XX or 4XX with at least 3 units being from BUEC and 3 units being from B LAW.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
Major in Business Economics and Law [Business]	Major in Business Economics and Law [Business]



## Sequence of Courses

---

### Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- 6 units in Business Economics and Law electives (See Note 2)
- 21 units in free electives (See Note 1)

### Year Four

---

- [BUS 404 - Capstone Project](#)
- [BUEC 479 - Government and Business in Canada](#)
- [B LAW 402 - Business Contracts](#) **OR**
- [B LAW 403 - Commercial Transactions](#)
- 6 units in Business Economics and Law electives (See Note 2)
- 15 units in free electives (See Note 1)

### Notes

---

1. See [Policy on Elective Courses](#)

## Sequence of Courses

---

### Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- 6 units in Business Economics and Law electives (See Note 2)
- 21 units in free electives (See Note 1)

### Year Four

---

- [BUS 404 - Capstone Project](#)
- [BUEC 479 - Government and Business in Canada](#)
- [B LAW 402 - Business Contracts](#) **OR**
- [B LAW 403 - Commercial Transactions](#)
- 6 units in Business Economics and Law electives (See Note 2)
- 15 units in free electives (See Note 1)

### Notes

---

1. See [Policy on Elective Courses](#)

2. Students must take at least 12 units in Business Economics and Law courses at the 300 or 400-level. Of these, at least 3 units must be in BUEC and 3 units must be in B LAW. Business Economics and Business Law courses may be chosen from the following depending on the (optional) stream selected. Although a stream is not required, students who wish to pursue a stream would consult the following:

Firm: [BUEC 211](#) or [ECON 281](#); [B LAW 402](#); [ECON 373](#), [ECON 378](#), [ECON 471](#), [ECON 472](#).

Environment: [BUEC 342](#), [BUEC 442](#), [BUEC 444](#), [BUEC 463](#), [BUEC 464](#), [BUEC 488](#) ; [B LAW 428](#), [B LAW 432](#), [B LAW 442](#), [B LAW 444](#), [B LAW 488](#).

Firm and Environment: [B LAW 403](#), [B LAW 422](#); [ECON 373](#), [ECON 471](#), [ECON 472](#). ([BUEC 211](#), [BUEC 342](#), [ECON 281](#), [ECON 373](#) and [ECON 378](#) are considered 400-level courses for the purpose of satisfying this major.)

3. ECON courses used to satisfy the requirements of this major may not

2. Students must take at least 12 units in Business Economics and Law courses at the 300 or 400-level. Of these, at least 3 units must be in BUEC and 3 units must be in B LAW. Business Economics and Business Law courses may be chosen from the following depending on the (optional) stream selected. Although a stream is not required, students who wish to pursue a stream would consult the following:

Firm: [BUEC 211](#) or [ECON 281](#); [B LAW 402](#); [ECON 373](#), [ECON 378](#), [ECON 471](#), [ECON 472](#).

Environment: [BUEC 342](#), [BUEC 442](#), [BUEC 444](#), [BUEC 463](#), [BUEC 464](#), [BUEC 488](#) ; [B LAW 428](#), [B LAW 432](#), [B LAW 442](#), [B LAW 444](#), [B LAW 488](#).

Firm and Environment: [B LAW 403](#), [B LAW 422](#); [ECON 373](#), [ECON 471](#), [ECON 472](#). ([BUEC 211](#), [BUEC 342](#), [ECON 281](#), [ECON 373](#) and [ECON 378](#) are considered 400-level courses for the purpose of satisfying this major.)

3. ECON courses used to satisfy the requirements of this major may not

also be used to satisfy the requirements for coursework outside the Faculty of Business.

## Minors

---

1. Students with a declared major in Business Economics and Law may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may complete a minor in Business Economics and Law by completing both B LAW 201 and BUEC 211. An additional 9 units in Business Economics and Law courses at the 400-level is also required. Of these, at least 3 units must be in B LAW and 3 units must be in BUEC. Students can also choose to Minor in either Business Law or Business Economics. See [Minors for Business Students](#).

also be used to satisfy the requirements for coursework outside the Faculty of Business.

## Minors

---

1. Students with a declared major in Business Economics and Law may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may complete a minor in Business Economics and Law by completing 12 units of courses at the 300- or 400-level. Of these, at least 3 units must be in B LAW and 3 units must be in BUEC. Students can also choose to Minor in either Business Law or Business Economics. See [Minors for Business Students](#).

--	--

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion USPC Email Thread - November 14th, 2023
---

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

To remove a line referencing Secondary Cores in Minor section Note 1, as this course category has been removed and is no longer relevant.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
Major in Marketing [Business]	Major in Marketing [Business]
Sequence of Courses	Sequence of Courses

## Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- [MARK 312 - Marketing Analytics](#)
- [MARK 320 - Consumer Behavior](#)
- 3 units in Marketing electives (See Note 2)
- 18 units in free electives (See Note 1)

## Year Four

---

- [BUS 404 - Capstone Project](#)
- [MARK 432 - Digital Marketing](#)
- [MARK 468 - E-Commerce and Retailing](#)
- [MARK 472 - Branding and Marketing Strategy](#)
- 18 units in free electives (See Note 1)

## Notes

---

## Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- [MARK 312 - Marketing Analytics](#)
- [MARK 320 - Consumer Behavior](#)
- 3 units in Marketing electives (See Note 2)
- 18 units in free electives (See Note 1)

## Year Four

---

- [BUS 404 - Capstone Project](#)
- [MARK 432 - Digital Marketing](#)
- [MARK 468 - E-Commerce and Retailing](#)
- [MARK 472 - Branding and Marketing Strategy](#)
- 18 units in free electives (See Note 1)

## Notes

---

1. See [Policy on Elective Courses](#)
2. Marketing electives may be chosen from any 400-level MARK course.

## Minors

---

1. Students with a declared major in Marketing may choose to do a minor in any subject area of Business. See [Minors for Business Students](#).  
Minors are not required. ~~Marketing students are permitted to count one of the secondary core courses required in the Marketing major as one of the four courses constituting their minor.~~
2. Students with a declared major in another area may complete a minor in Marketing by fulfilling the requirements of [Minors for Business Students](#).

1. See [Policy on Elective Courses](#)
2. Marketing electives may be chosen from any 400-level MARK course.

## Minors

---

1. Students with a declared major in Marketing may choose to do a minor in any subject area of Business. See [Minors for Business Students](#).  
Minors are not required.
2. Students with a declared major in another area may complete a minor in Marketing by fulfilling the requirements of [Minors for Business Students](#).

### Reviewed/Approved by:

Seconded Motion at Business Council - November 27, 2023

Seconded Motion USPC Email Thread - November 14th, 2023



Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course has been developed further since the original proposal; we would like the description to better reflect the course content.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> BUS 222</p> <p><b>Title:</b> Professionalism and Responsible Impact</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 1.5-1.5-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term</p> <p><b>Description</b> Professionalism shows up in how you interact with people and communities, and how you represent yourself and your organization. This course will delve into several aspects of professional skills including business communication, <del>respectful interactions with communities, giving presentations,</del> and presenting <del>one's self</del> as a job candidate. Teambuilding and collaboration will be honed through <del>case-based work</del>. Topics such as responsible and ethical decision making, equity, diversity and inclusivity (EDI) across different aspects of business, <del>and aspects of Indigenous business</del> will be introduced, <del>amongst others</del>. Prerequisite: BUS 101 (this prerequisite can be waived for transfer students).</p>	<p><b>Subject &amp; Number</b> BUS 222</p> <p><b>Title:</b> Professionalism and Responsible Impact</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 1.5-1.5-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term</p> <p><b>Description</b> Professionalism shows up in how you interact with people and communities, and how you represent yourself and your organization. This course will delve into several aspects of professional skills including business communication, <b>managing projects, conducting research, understanding the importance of data literacy, working with personal technologies, giving presentations, leadership, respectful interactions with communities,</b> and presenting <b>oneself</b> as a <b>valuable</b> job candidate. <b>Team-building and collaboration will be honed through case analysis and project-based work.</b> Topics such as responsible and ethical decision making, equity, diversity and inclusivity (EDI) across different aspects of business will be introduced. <b>Students will gain a foundational understanding of the history and current context of Indigenous Peoples in Canada and be introduced to Indigenous business approaches.</b></p>

	Prerequisite: BUS 101 (this prerequisite can be waived for transfer students).
--	--

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	• Undergraduate
	• Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course has been developed further since the original proposal; we would like the description to better reflect the course content.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> BUS 303</p> <p><b>Title:</b> Application of Business Concepts</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 1.5-1.5-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term</p> <p><b>Description</b> This course will continue building upon the professional, interpersonal, and team-building skills practiced in earlier courses. Collaboration and problem-solving will continue to be honed through case-based work. Aligning your skills and knowledge with broader societal impact issues will be explored to help you think about how business can solve problems. Prerequisite: BUS 222.</p>	<p><b>Subject &amp; Number</b> BUS 303</p> <p><b>Title:</b> Application of Business Concepts</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 1.5-1.5-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term</p> <p><b>Description</b> The course emphasizes the role of organizations in solving complex challenges on local, national and global scales. Students will continue building upon the hard and soft professional, interpersonal, and team-building skills practiced in earlier courses. Collaboration and problem-solving will continue to be honed through case simulations and projects that will explore broader societal and international issues. Students will use a systems thinking approach to analyze complex business topics including equity, diversity, and inclusion; Indigenous business and reconciliation; not-for-profits and leadership. Prerequisite: BUS 222.</p>

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The SEM Department would like to update the SEM322 course name to emphasize leadership and connect with the UofA's commitment to "Leading With Purpose". The course description now better reflects the expertise of Faculty who will be teaching the course.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number SEM 322</b></p> <p><b>Title:</b> <b>Theory of Organizational Behaviour</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>  <del>Students who have taken introductory courses in the area will study in greater depth and detail theories of how people work in organizations. These include theories of motivation, leadership, communication, decision making, groups, conflict, change, and others selected by the instructor to cover new ways of thinking about people and organizations. Lecture, case study, and group work will normally be used. Prerequisite: SEM 201, 301 or 310.</del></p>	<p><b>Subject &amp; Number SEM 322</b></p> <p><b>Title:</b> <b>Leadership and Organizational Behavior</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>          Provides an understanding of the behavior of individuals in organizations as a foundation for effective leadership. Draws from psychology, sociology, organization theory and covers leadership and related topics such as personality, motivation, emotion, communication, conflict, and team dynamics. Prerequisite: SEM 201, 301, 210, or 310.</p>

## Reviewed/Approved by:

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The SEM Department wishes to emphasize leadership in this course, as opposed to supervisors and managers. The course description and prerequisites stay the same (aside from adding the new number of SEM 210, which is equivalent to SEM 310)..

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
<p><b>Subject &amp; Number</b> SEM 402</p> <p><b>Title:</b> <span style="background-color: yellow;">Management Skills for Supervisors and Leaders</span></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>            The purpose of this course is to increase understanding of leadership roles and skill in exercising those roles. These include team building, mentoring, managing conflict, delegating, managing participative decision making, creative problem solving, and time and stress management. Prerequisite: SEM 201, 301 or 310. Open to third- and fourth-year students.</p>	<p><b>Subject &amp; Number</b> SEM 402</p> <p><b>Title:</b> <span style="background-color: yellow;">Leadership Skills</span></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>            The purpose of this course is to increase understanding of leadership roles and skill in exercising those roles. These include team building, mentoring, managing conflict, delegating, managing participative decision making, creative problem solving, and time and stress management. Prerequisite: SEM 201, 301, <span style="background-color: yellow;">210</span> or 310. Open to third- and fourth-year students.</p>

## Reviewed/Approved by:

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023





Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Peter Lougheed Leadership College is academically supported by the School of Business, and as a result, we facilitate its academic governance changes. The PLLC has reimagined the Certificate in Interdisciplinary Leadership Studies (CILS), with a four-course series as part of an embedded certificate that has already received academic governance approval. INT D 407 is the fourth and final course in this series. It will target students enrolled in their last year but is open to all undergraduate students. This fourth course “Time to Practice” will, for the most part be delivered online, in a mostly asynchronous format. On occasion, the course or portions of it, may be delivered synchronously. The goal is that students from across campus will enroll in the course. The prior version of this course “Workshop in Leadership” was very similar in content, and also acted as a final course for those pursuing CILS. We have revised the course description to now emphasize this will be the capstone course for all CILS students.

### Incorporation of Indigenous Perspectives

Students will be encouraged to engage with modern indigenous issues, where appropriate, in their group work. They will be encouraged to seek out advice and indigenous perspectives from First

Nations, Metis, and Inuit (FMNI) peoples, especially elders, if/when they choose to analyze and tackle real-world problems faced by the FNMI community.

### POTENTIAL ASSESSMENTS

- First assignment - Map the System
- Second assignment - Demo the research
- Third assignment - Be persuasive
- Fourth - final paper - Put it all together
- Final presentation

## Course Template

<b>Current:</b> <span style="background-color: yellow;">Removed language</span>	<b>Proposed:</b> <span style="background-color: yellow;">New language</span>
<b>Subject &amp; Number</b> INT D 407  <b>Title:</b> <span style="background-color: yellow;">Workshop in Leadership</span>	<b>Subject &amp; Number</b> INT D 407  <b>Title:</b> <span style="background-color: yellow;">Inspired to Lead: Time to Practice</span>
<b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> <span style="background-color: yellow;">Variable</span> <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business	<b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> <span style="background-color: yellow;">3-0-0</span> <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business

<p><b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>  Using experiential learning to build practical leadership skills that generalize across organizational settings, and ethical decision making under constraints (stress, time, financial). Leading, understanding, influencing, communicating and motivating others in organizations and teams. Topics may include vision, mission, values, leading change, managing teams, organizational culture management (recruiting, socializing, rewarding), and working with boards. Prerequisite: INT-D-301. Counts toward the Certificate in Interdisciplinary Leadership Studies offered by the School of Business in collaboration with the Peter Lougheed Leadership College. [Faculty of Business].</p>	<p><b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>  Students will engage with one another in project directed groups, putting to use the leadership skills, theory, and research they have enacted and participated in during their leadership education journey. Real world problems will be presented, analyzed, and addressed head-on, offering real-world experiences aimed to motivate students to continue their leadership journeys beyond their time at the University.  Prerequisites: INT D 101, INT D 207 (or equivalent from list of CILS pre-approved courses), and INT D 307 (or equivalent from list of CILS pre-approved courses)</p>
---	--

**Reviewed/Approved by:**

<p>Seconded Motion at Business Council - November 27, 2023</p>
<p>Seconded Motion at USPC - October 23, 2023</p>

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Requesting this scheduling change for MARK 201 which is a change from 2023-24 offering to better accommodate students and encourage interaction with lower number of students in the seminars.

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
<p><b>Subject &amp; Number</b> MARK 201</p> <p><b>Title:</b> Introduction to Marketing</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> <span style="background-color: yellow;">3-0-0</span>  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>            Students are introduced to the marketing concept and the role of marketing within the overall business framework. The basic tools of marketing are introduced: market segmentation, positioning, product, price, distribution, and promotion, together with marketing research, consumer behaviour, planning, and global marketing. A critical theme of the course is the need for the marketing mix to fit with the requirements of consumers, the competitive environment, company strengths, and community expectations. These issues are considered from strategic and tactical perspectives. Pre- or corequisites: ECON 101 or ECON 102 or ECON 204. Students may not receive credit for both MARK 201 and MARK 301.</p>	<p><b>Subject &amp; Number</b> MARK 201</p> <p><b>Title:</b> Introduction to Marketing</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> <span style="background-color: yellow;">2-1-0</span>  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>            Students are introduced to the marketing concept and the role of marketing within the overall business framework. The basic tools of marketing are introduced: market segmentation, positioning, product, price, distribution, and promotion, together with marketing research, consumer behaviour, planning, and global marketing. A critical theme of the course is the need for the marketing mix to fit with the requirements of consumers, the competitive environment, company strengths, and community expectations. These issues are considered from strategic and tactical perspectives. Pre- or corequisites: ECON 101 or ECON 102 or ECON 204. Students may not receive credit for both MARK 201 and MARK 301.</p>

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The proposed change is to remove the weekly 1-hour computer lab sections. We have created lab videos, through a blended learning grant, that enable students to learn the lab material at their own pace. We will continue to have weekly help sessions and lab exams.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number OM 252</b></p> <p><b>Title: Operations Management</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-<b>4</b>  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>            A problem-solving course which introduces the student to deterministic and stochastic models which are useful for production planning and operations management in business and government. Note: Students are expected to have basic familiarity with microcomputer applications. Prerequisite: MATH 154 or equivalent and STAT 161 or equivalent. Students may not receive credit for both OM 252 and OM 352.</p>	<p><b>Subject &amp; Number OM 252</b></p> <p><b>Title: Operations Management</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-<b>0</b>  <b>Fee index</b> 6  <b>Faculty</b> Alberta School of Business  <b>Department</b> Business  <b>Typically Offered</b> either term</p> <p><b>Description</b>            A problem-solving course which introduces the student to deterministic and stochastic models which are useful for production planning and operations management in business and government. Note: Students are expected to have basic familiarity with microcomputer applications. Prerequisite: MATH 154 or equivalent and STAT 161 or equivalent. Students may not receive credit for both OM 252 and OM 352.</p>

## Reviewed/Approved by:

Seconded Motion at Business Council - November 27, 2023

Seconded Motion at USPC - October 23, 2023

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Requesting course number for this class. It has been offered in the past and has shown to be popular with students.

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
<b>Subject &amp; Number</b>	<b>Subject &amp; Number</b> <span style="background-color: yellow;">B LAW 450</span>
<b>Title:</b>	<b>Title:</b> <span style="background-color: yellow;">Legal Foundations of Entrepreneurship</span>
<b>Course Career</b>	<b>Course Career</b> <span style="background-color: yellow;">Undergraduate</span>
<b>Units</b>	<b>Units</b> <span style="background-color: yellow;">3</span>
<b>Approved Hours</b>	<b>Approved Hours</b> <span style="background-color: yellow;">3-0-0</span>
<b>Fee index</b>	<b>Fee index</b> <span style="background-color: yellow;">6</span>
<b>Faculty</b>	<b>Faculty</b> <span style="background-color: yellow;">Alberta School of Business</span>
<b>Department</b>	<b>Department</b> <span style="background-color: yellow;">Business</span>
<b>Typically Offered</b>	<b>Typically Offered</b> <span style="background-color: yellow;">either term</span>
<b>Description</b>	<b>Description</b> <span style="background-color: yellow;">Legal Foundations of Entrepreneurship is a practical course for undergraduates that teaches students about important legal considerations for start-ups and growing companies. The course focuses on how to evaluate risk in relation to business development, competition, as well as laws and regulations. Students will also learn about the legal aspects of corporate structuring, intellectual property protection, financing, and mergers and acquisitions.</span>

## Reviewed/Approved by:

Seconded Motion at Business Council - November 27, 2023

Seconded Motion USPC Email Thread - October 27th, 2023





Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Requesting course number for this class. It has been offered in the past and has shown to be popular with students.

For the prerequisite courses, students should have knowledge of data structures, how to use Excel, and basic statistical knowledge before taking our data analysis course. Therefore, MGTSC 312 or STAT 252 is required. To the best of my knowledge, MGTSC 312 or STAT 252 is required for all business students.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<b>Subject &amp; Number</b>	<b>Subject &amp; Number</b> BUEC 420
<b>Title:</b>	<b>Title:</b> Data Science and Business Economics
<b>Course Career</b>	<b>Course Career</b> Undergraduate
<b>Units</b>	<b>Units</b> 3
<b>Approved Hours</b>	<b>Approved Hours</b> 3-0-0
<b>Fee index</b>	<b>Fee index</b> 6
<b>Faculty</b>	<b>Faculty</b> Alberta School of Business
<b>Department</b>	<b>Department</b> Business
<b>Typically Offered</b>	<b>Typically Offered</b> either term
<b>Description</b>	<b>Description</b> Businesses, organizations, and firms require data-driven insights to remain competitive. This course teaches you to clean and visualize data and use them for research analysis. All the course materials are based on real data and interesting cases, such as analyzing why the hotel prices are different, how temperature affects electricity consumption, whether large firms are better managed, family ownership and quality of management, etc. This course begins with data introduction, processing, and visualization. Then, we will explore different case topics to show how to apply data to real-world questions. Moreover, we will also learn the most relevant tools (e.g., Python) and methods to conduct your analysis. This

	<p>course incorporates the learning goals of the BCom program, in particular quantitative skills, data analysis, question-solving, critical thinking, oral and written communications, and teamwork. By successfully completing this course, you will be good at processing and visualizing data, conducting basic research analysis using the most popular methods, and writing a research paper. Prerequisites: MGTSC 212 or 312 or STAT 252.</p>
--	---

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Requesting course number for this class. It has been offered each year since 2014, and has shown to be popular with students.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<b>Subject &amp; Number</b>  <b>Title:</b>  <b>Course Career</b> Undergraduate <b>Units</b> <b>Approved Hours</b> <b>Fee index</b> <b>Faculty</b> <b>Department</b> <b>Typically Offered</b>  <b>Description</b>	<b>Subject &amp; Number</b> <b>MARK 476</b>  <b>Title:</b> <b>Sports Marketing</b>  <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 3-0-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term  <b>Description</b> This course provides an overview of various aspects of the sports marketing industry. This will encompass three basic components: (1) an introduction to the broad sports marketing environment including marketing through sports and the marketing of sports products; (2) a detailed evaluation of the marketing strategies for an array of sports products; and (3) consideration of recent issues regarding the marketing of sports products. As a senior marketing course, a key objective is to facilitate the application of course concepts to contemporary market planning and decision making. <b>Prerequisite:</b> MARK 201 or 301

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course has been taught as a special topics course with sections planned for the 2024/2025 academic year. We would like to make this a permanent course.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<b>Subject &amp; Number</b>  <b>Title:</b> <b>Course Career</b> <b>Units</b> <b>Approved Hours</b> <b>Fee index</b> <b>Faculty</b> <b>Department</b> <b>Typically Offered</b>  <b>Description</b>	<b>Subject &amp; Number</b> <b>OM 423</b>  <b>Title:</b> <b>Prescriptive Analytics</b>  <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 3-0-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term  <b>Description</b> Prescriptive analytics involves the use of data, mathematical models, and algorithms to identify optimal solutions for achieving organizational goals. This process builds on descriptive and predictive analytics, going beyond the interpretation of past events and the forecasting of future scenarios to also provide advice on the most effective actions to meet business objectives. Students acquire the skills to convert complex business problems into mathematical models, and employ Python programming and commercial solvers to derive optimal decisions. Evaluation components will consist of assignments, case studies, group projects, and two midterm exams. <b>Prerequisites:</b> OM 252 or 352

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course is being taught in Winter 2024 by Dr. Dev Jennings as SEM488, which is a translation of an EMBA course by Dr. Vern Glaser, where the curriculum has been developed, tested and refined. The SEM Department would like to deliver this course on a continuing basis under its own number. Business Analytics is a strategic initiative of the Alberta School of Business and the SEM Department wishes to support this direction, bridge departments, and ensure our Faculty-wide educational approach is integrative. To wit, it will be a core, required course in our new major in Business Analytics, as well as in our new Management major.

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
<b>Subject &amp; Number</b>  <b>Title:</b> <b>Course Career</b> <b>Units</b> <b>Approved Hours</b> <b>Fee index</b> <b>Faculty</b> <b>Department</b> <b>Typically Offered</b>  <b>Description</b>	<b>Subject &amp; Number</b> <span style="background-color: yellow;">SEM 420</span>  <b>Title:</b> <span style="background-color: yellow;">Strategic Decision Making with Management Analytics</span>  <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 3-0-0 <b>Fee index</b> 6 <b>Faculty</b> Alberta School of Business <b>Department</b> Business <b>Typically Offered</b> either term  <b>Description</b> <span style="background-color: yellow;">This course examines how leaders can employ data analytics to inform strategic decision making in organizations. Students will develop skills in using data to frame strategic decisions, asking critical questions about relevant data, understanding and critiquing the methods by which data have been collected and organized, and using data in analytics to improve organizational outcomes. Through interactive lectures, case studies, and real-world projects, students will learn to use data to formulate strategies, facilitate change, and create competitive value.</span>

	Prerequisite: SEM 201, 301, 210 or 310. Open to third- and fourth-year students.
--	--

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--



Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course is to create an undergraduate version of the SEM636 Management Consulting course. It will support SEM's proposed Management Consulting certificate.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b></p> <p><b>Title:</b></p> <p><b>Course Career</b></p> <p><b>Units</b></p> <p><b>Approved Hours</b></p> <p><b>Fee index</b></p> <p><b>Faculty</b></p> <p><b>Department</b></p> <p><b>Typically Offered</b></p> <p><b>Description</b></p>	<p><b>Subject &amp; Number</b> <b>SEM 436</b></p> <p><b>Title:</b> <b>Management Consulting</b></p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-0</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Alberta School of Business</p> <p><b>Department</b> Business</p> <p><b>Typically Offered</b> either term</p> <p><b>Description</b>            This course is an introduction to the management consulting industry. It is primarily intended for those considering a possible career as a management consultant and for those looking to pursue an Internship with a consulting firm. First, the course outlines the history, regulation, business models and competitive structure of the industry. Because the industry is changing quite rapidly, attention will be given to the dynamics of the industry's business models and competitive structure. Second, the course introduces participants to key practices in the consulting process, with specific attention to the analytical and diagnostic approach to the preparation of proposals and management of engagements.            Prerequisite: SEM 201, 301, 210 or 310. Open to third- and fourth-year students.</p>

**Reviewed/Approved by:**

Seconded Motion at Business Council - November 27, 2023
---

Seconded Motion at USPC - October 23, 2023
--

Faculty (& Department or Academic Unit):	Alberta School of Business
Contact Person:	Dr. Michelle Inness, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Change to outdated Business Areas to align with current majors and the removal and replacement of Minor information with link to Minors section of Calendar in order to not have to update this section separately if there is a change to minor requirements.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47854&amp;returnto=12336</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
Major in Business Studies [Business]	Major in Business Studies [Business]
Sequence of Courses	Sequence of Courses

## Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- 12 units in Senior Business requirements (See Note 2)
- 15 units in free electives (See Note 1)

## Year Four

---

- [BUS 404 - Capstone Project](#)
- [SEM 441 - Strategy and Innovation](#)
- [BUEC 479 - Government and Business in Canada](#)
- 12 units in Senior Business requirements (See Note 2)
- 9 units in free electives (See Note 1)

## Notes

---

1. See [Policy on Elective Courses](#).
2. See [Courses in the Faculty of Business](#). All Business Studies majors must take Senior Business electives from **at least four** of the subject areas of Business, one of

## Year Three

---

- [BUS 303 - Application of Business Concepts](#)
- 12 units in Senior Business requirements (See Note 2)
- 15 units in free electives (See Note 1)

## Year Four

---

- [BUS 404 - Capstone Project](#)
- [SEM 441 - Strategy and Innovation](#)
- [BUEC 479 - Government and Business in Canada](#)
- 12 units in Senior Business requirements (See Note 2)
- 9 units in free electives (See Note 1)

## Notes

---

1. See [Policy on Elective Courses](#).
2. See [Courses in the Faculty of Business](#). All Business Studies majors must take Senior Business electives from **at least four** of the subject areas of Business, one of

which may be expanded into a minor area of specialization. Students may elect to do a minor in any subject area of Business. Areas available for minors are Accounting, Management Information Systems, Finance, Management Science, Marketing, Business Economics, Business Law, and Organizational Analysis. A minor is constituted by 12 units in any subject area at the 300- or 400-level beyond the core courses.

## Minors

1. Students with a declared major in Business Studies may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may not choose to minor in Business Studies.

which may be expanded into a minor area of specialization. Students may elect to do a minor in any subject area of Business. Areas available for minors are Accounting, Business Technology Management, Finance, Management Science, Marketing, Business Economics, Business Law, and Strategic Management and Organization. See [Minors for Business Students](#)

## Minors

1. Students with a declared major in Business Studies may choose to do a minor in any subject area of Business. See [Minors for Business Students](#). Minors are not required.
2. Students with a declared major in another area may not choose to minor in Business Studies.

### Reviewed/Approved by:

Seconded Motion at Business Council - November 27, 2023

Seconded Motion USPC Email Thread - November 14th, 2023



## Calendar Change Request Form

for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Créer un cours de Français sur Objectifs Spécifiques (FOS) français-éducation de niveau B2+/C1 du Cadre européen commun de référence pour les langues (CECRL) à destination des étudiants du programme d'Éducation comme cours final obligatoire.

Ce cours répond à 3 objectifs :

- Harmoniser l'approche pédagogique (FOS) des cours de français de fin de programme au CSJ. Le programme de Sciences, de Sciences infirmières et le programme Administration des Affaires bilingue possèdent un cours de français final construit sur l'approche du FOS dont les bénéfiques, notamment en contexte immersif ont déjà été démontrés par la recherche didactique : le FRANC 232 (français-sciences), le FRANC 224 et 233 (français-nursing), le FRANC 234 (français-affaires). Proposer un cours de FOS de français-éduc comme cours de français final obligatoire permet de proposer une progression langagière dont la finalité est cohérente et harmonisée pour tous les programmes du CSJ
- Proposer un cours de français adapté aux besoins spécifiques des étudiants d'Éducation, en remplacement de FRANC 236 (Pratique de la dissertation). Bien que la construction d'un raisonnement argumentatif soit un exercice académique pertinent, ce cours ne couvre pas les besoins spécifiques des étudiants d'Éducation ni à l'oral ni à l'écrit. Un cours sur Objectifs Spécifiques permettrait ainsi aux étudiants d'utiliser la langue de manière contextualisée, les préparant ainsi à leur future pratique professionnelle. Le cours de FRANC 236 pourrait parallèlement être proposé aux étudiants d'Éducation comme cours de perfectionnement possible, parmi les options de cours de français et linguistique.
- Offrir une occasion supplémentaire aux étudiants d'Éducation de développer leur compétence langagière avant leur entrée au stage de manière spécifique, ciblée et réaliste pour leur expérience en classe, en français, en tant que futur enseignant tout en maintenant l'exigence académique à l'oral et à l'écrit qui caractérise les cours de français de fin de programme (FRANC 236, FRANC 232 etc.)

The proposal is to create a B2+/C1 level French for Specific Objectives(FSO) course, according to the Common European Framework of Reference for Languages (CEFR), for students in the Education program as a mandatory final course. This course has three objectives:

- To harmonize the pedagogical approach (FSO) of the end-of-program French courses at CSJ. The Science, Nursing Science programs, and the bilingual Business Administration program already have a final French course based on the FOS approach, whose benefits, especially in an immersive context, have been

demonstrated by didactic research: FRANC 232 (French-Science), FRANC 224 and 233 (French-Nursing), FRANC 234 (French-Business). Proposing a final mandatory FSO French-Education course would offer a language progression with a coherent and harmonized purpose for all CSJ programs.

- To propose a French course tailored to the specific needs of Education students, replacing FRANC 236 (Pratique de la dissertation). Although constructing an argumentative reasoning is a relevant academic exercise, this course does not cover the specific needs of Education students, neither in speaking nor in writing. A course on Specific Objectives would allow students to use the language in a contextualized way, preparing them for their future professional practice. The FRANC 236 course could simultaneously be offered to Education students as a possible refinement course, among the options for French and linguistics courses.
- To provide an additional opportunity for Education students to develop their language skills before their practicum commencement in a specific, targeted, and realistic manner for their classroom experience, in French, as future teachers, while maintaining the academic rigor in speaking and writing that characterizes the end-of-program French courses (FRANC 236, FRANC 232, etc.)."

## Course Template

CURRENT Current: <b>Removed language</b>	PROPOSED Proposed: <b>New language</b>
<b>NEW</b>	<p><b>FRANC 238 – Français académique et professionnel pour Éducation</b></p> <p>Course Career Undergraduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Faculté Saint-Jean Department Saint-Jean Typically Offered l'un ou l'autre semestre</p> <p><b>Description</b> Ce cours, de niveau linguistique C1 du Cadre européen commun de référence pour les langues (CECRL), vise l'acquisition d'une maîtrise de la langue française spécifique au milieu éducatif, afin d'optimiser la communication écrite et orale dans ce domaine, par la consolidation linguistique, méthodologique et rédactionnelle liée au contexte et aux situations du monde de l'école. Préalable(s) : FRANC 226 ou affectation par test de placement. Note : ce cours est réservé aux étudiants du programme d'Éducation.</p>

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.  
Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculté Saint-Jean Arts & Sciences and Education groups: November 3, 2023  
Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
Faculté Saint-Jean Executive Committee: November 16, 2023





**Calendar Change Request Form  
for Program and Regulation Changes**

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

**Rationale**

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Cette mise à jour de la section "Cours de français" de l'annuaire est nécessaire suite à la création de *FRANC 238- Français académique et professionnel pour Éducation* et pour rendre les attentes en français plus claires et refléter l'approche Français sur objectifs spécifiques (FOS) privilégiée dans l'enseignement du cours final de français. De plus, les ajustements proposés pour cette section de l'annuaire sont cohérents avec ceux recommandés pour la section Collation des grades qui font l'objet d'une proposition en parallèle. L'objectif est de rendre le vocabulaire plus simple, d'améliorer la clarté et de rendre les informations sur les cours de FRANC requis plus explicites.

This update to the "Cours de français" section of the Calendar is necessary following the creation of *FRANC 238- Français académique et professionnel pour Éducation* and to clarify French language expectations, reflecting the preferred French for Specific Objectives (FSO) approach in teaching the final French course. These adjustments are also in line with similar changes recommended for the Collation des grades section. The objective is to simplify the vocabulary, enhance clarity, and make the information about the required FRANC courses more clear.

## Calendar Copy

URL in current Calendar (or "New page")

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12297>

Current Copy	Proposed Copy
<p><b>Renseignements généraux</b></p> <p><b>Cours de français</b></p> <p>Tout étudiant à l'exception des étudiants du BEd/AD (voir <a href="#">Baccalauréat en Éducation</a>), <del>du BSe (voir <a href="#">Baccalauréat</a> <a href="#">ès sciences</a>) et du BSc (sciences de l'environnement et de la conservation, bilingue)</del>, doit réussir un minimum de 9 crédits de français (FRANC), incluant <del>le <a href="#">FRANC 236</a></del>. <del>Les étudiants du BScInf (bilingue) devraient consulter la <a href="#">Séquence des cours</a></del>.</p> <p><del>L'objectif des cours de français langue consiste à amener l'étudiant à s'exprimer clairement et correctement dans des situations courantes de la vie personnelle et professionnelle, tant à l'oral qu'à l'écrit. Le contexte francophone interculturel unique que constitue la Faculté Saint Jean offre un environnement propice à un tel développement linguistique.</del></p> <p><del>Le cours <a href="#">FRANC 236</a>, obligatoire pour tous, (à l'exception des étudiants du BSe, du BSe (science de l'environnement et de la conservation, bilingue) et du BScInf, bilingue)</del> présuppose la maîtrise de la langue aux plans grammatical, syntaxique et lexical. C'est de la responsabilité de l'étudiant d'avoir acquis cette maîtrise.</p> <p><del>Pour l'aider à ce faire,</del> la Faculté Saint-Jean offre des cours de langue et de linguistique françaises (p. ex., <a href="#">FRANC 116</a>, <a href="#">FRANC 117</a>, <a href="#">FRANC 213</a>, <a href="#">FRANC 216</a>, <a href="#">FRANC 226</a>, <a href="#">LINGO 200</a>) et l'accès au Centre d'écriture.</p>	<p><b>Renseignements généraux</b></p> <p><b>Cours de français</b></p> <p>L'objectif des cours de français langue consiste à amener l'étudiant à s'exprimer clairement et correctement dans des situations courantes de la vie personnelle et professionnelle, tant à l'oral qu'à l'écrit. Le contexte francophone interculturel unique que constitue la Faculté Saint-Jean offre un environnement propice à un tel développement linguistique.</p> <p>Tout étudiant, à l'exception des étudiants du BEd/AD (voir <a href="#">Baccalauréat en Éducation</a>) et du BScInf bilingue (voir <a href="#">Séquence des cours</a> du BScInf), doit réussir un minimum de 9 crédits de français (FRANC) incluant le cours FRANC final relatif à leur programme, à savoir :</p> <ul style="list-style-type: none"> <li>- BAA : FRANC 234</li> <li>- BA : FRANC 236</li> <li>- BEd : FRANC 238</li> <li>- BEd/BSc : FRANC 238</li> <li>- BSc : FRANC 232</li> </ul> <p>Les cours de fin de programme présupposent la maîtrise de la langue aux plans grammatical, syntaxique et lexical. Il est de la responsabilité de l'étudiant d'avoir acquis cette maîtrise.</p>

<p>Afin d'assurer que l'étudiant ait acquis les compétences linguistiques nécessaires, les cours <u>FRANC 226</u> ou <u>FRANC 227</u> sont les préalables du <u>FRANC 236</u>. Le Vice-doyen aux affaires académiques peut accorder des exemptions à ce cours.</p>	<p>Pour appuyer l'étudiant, la Faculté Saint-Jean offre des cours de langues et de linguistique françaises (p. ex., FRANC 116, FRANC 117, FRANC 216, FRANC 226, LINGQ 113, LINGQ 200), l'accès au Centre d'écriture ainsi que des ateliers formatifs disponibles aux étudiants durant leur parcours universitaire.</p> <p>Afin d'assurer que l'étudiant ait acquis les compétences linguistiques nécessaires, le cours FRANC 226 est le préalable aux cours de FRANC 232, FRANC 234, FRANC 236 et FRANC 238 sauf si l'évaluation initiale en français (test de placement et test diagnostique de début de session) indique que l'étudiant peut en être exempté et rejoindre directement le cours final. Le vice-doyen aux affaires académiques peut également accorder des exemptions à ce cours.</p>
--	---

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12296">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12296</a></p>	
Current Copy	Proposed Copy
<p><b>French Courses</b></p> <p>All students, except those registered in the BEd/AD (see <a href="#">Programs</a>), BSc (see <a href="#">Bachelor of Science [Faculté Saint-Jean]</a>) and BSc (Environmental and Conservation Sciences—Bilingual) must complete a minimum of 9 units of French (FRANC), including <u>FRANC 236</u>. Students in the BScN (Bilingual) program should consult <a href="#">Course sequence</a>.</p> <p>The objective of French language courses is to help the student speak and write clearly and correctly in situations that arise in everyday personal or professional life. The unique intercultural context that is Faculté</p>	<p><b>French Courses</b></p> <p>The objective of French language courses is to help the student speak and write clearly and correctly in situations that arise in everyday personal or professional life. The unique intercultural context that is Faculté Saint-Jean provides an ideal environment for such linguistic development.</p> <p>All students, except those registered in the BEd/AD (see <a href="#">Programs</a>), BSc (see <a href="#">Bachelor of Science [Faculté Saint-Jean]</a>) must complete a minimum of 9 units of French (FRANC), including the final French course related to their program, specifically:</p> <ul style="list-style-type: none"> <li>- BAA : FRANC 234</li> <li>- BA : FRANC 236</li> <li>- BEd : FRANC 238</li> <li>- BEd/BSc : FRANC 238</li> <li>- BSc : FRANC 232</li> </ul>

<p>Saint-Jean provides an ideal environment for such linguistic development.</p> <p><u>FRANC 236</u>, mandatory for all students (except for the students in the BSc, BSc (Environment and Conservation-bilingual) and BScN-bilingual), presupposes a strong command of all aspects of French (grammatically, syntactically and lexically). It is the student's responsibility to acquire such command of the language. To achieve this goal, Faculté Saint-Jean offers French language and linguistics courses (e.g., <u>FRANC 116</u>, <u>FRANC 117</u>, <u>FRANC 213</u>, <u>FRANC 216</u>, <u>FRANC 226</u>, <u>LINGO 200</u>), and provides access to a French help centre.</p> <p>In order to ensure that students have achieved this goal, <u>FRANC 226</u> or <u>FRANC 227</u> are prerequisites for <u>FRANC 236</u>. The Office of the Associate Dean (Academic) may grant an exemption for this course.</p>	<p>The final program courses presupposes a strong command of all aspects of French (grammatically, syntactically and lexically). It is the student's responsibility to acquire such command of the language. To support students, Faculté Saint-Jean offers French language and linguistics courses (e.g., <u>FRANC 116</u>, <u>FRANC 117</u>, <u>FRANC 213</u>, <u>FRANC 216</u>, <u>FRANC 226</u>, <u>LINGO 113</u>, <u>LINGO 200</u>), and provides access to a French help centre as well as formative workshops available to students during their academic journey.</p> <p>In order to ensure that students have achieved this goal, <u>FRANC 226</u> is a prerequisite for <u>FRANC 232</u>, <u>FRANC 234</u>, <u>FRANC 236</u>, and <u>FRANC 238</u>, unless the initial assessment in French (Placement Test and Diagnostic Test at the beginning of the session) indicates that the student may be exempt and proceed directly to the final course. The Vice-Dean (Academic) may also grant exemptions for this course.</p>
--	---

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.  
 Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 Faculté Saint-Jean Arts & Sciences and Education Groups: November 3 and 7, 2023,  
 Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
 Faculté Saint-Jean Executive Committee: November 16, 2023



**Calendar Change Request Form  
for Program and Regulation Changes**

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	yes

**Rationale**

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Ces changements visent à mettre à jour cette section de l'annuaire suite à la création du cours FRANC 238 (Français académique et professionnel pour l'Éducation), mieux adapté aux besoins des étudiants en éducation, en remplacement du précédent FRANC 236 (Pratique de la dissertation). De plus, les ajustements proposés pour cette section de l'annuaire sont cohérents avec ceux recommandés pour la section Cours de français qui font l'objet d'une proposition en parallèle. L'objectif est de rendre le vocabulaire plus simple, d'améliorer la clarté et de rendre les informations sur les cours de FRANC requis plus explicites.

The proposed changes are aimed at updating this Calendar section in response to the recent creation of course FRANC 238 (Français académique et professionnel pour l'Éducation), which is better suited to the needs of education students compared to the previous FRANC 236 (Pratique de la dissertation). These adjustments are also in line with similar changes recommended for the French Courses section. The objective is to simplify the vocabulary, enhance clarity, and make the information about the required FRANC courses more clear.

## Calendar Copy

URL in current Calendar (or "New page")

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12293#niveau-academique-et-collation-des-grades>

Current Copy	Proposed Copy
<p><b>Règlements de la Faculté Saint-Jean</b>  <b>Niveau académique et collation des grades</b>  <b>Collation des grades</b></p> <ol style="list-style-type: none"> <li>1. Pour obtenir un diplôme de fin d'études, une moyenne minimale de 2,0 est exigée.  <b>Note</b> : Pour obtenir un BA avec concentration, l'étudiant devra maintenir une moyenne minimale de 2,0 dans les 120 crédits attribuables au programme. Une moyenne minimale de 2,3 est exigée dans la concentration majeure.</li> <li>2. Pour obtenir un diplôme de BA avec spécialisation, l'étudiant devra maintenir une moyenne minimale de 3,0 dans les 120 crédits attribuables au programme. Une moyenne minimale de 3,3 est exigée dans la spécialisation.</li> <li>3. Pour obtenir un diplôme de BScIn (bilingue), l'étudiant devra maintenir une moyenne minimale de 2,0 dans les derniers 60 crédits. (S'il faut, pour atteindre les 60 crédits, inclure un autre semestre ou plus, les meilleurs résultats de ce semestre ou de ces semestres seront inclus. Les échecs ne sont pas inclus dans le calcul de la moyenne obtenue pour le diplôme de fin d'études.)</li> <li>4. <b>Cours obligatoires</b> : Afin de recevoir le diplôme de la Faculté Saint-Jean, tout étudiant devra avoir réussi les cours suivants : <ol style="list-style-type: none"> <li>a. <b>FRANC 236</b></li> <li>b. Un cours de 3 crédits parmi Francophonies. (Voir la classification des cours à la Classification des cours).</li> </ol> </li> </ol> <p><b>Notes</b></p> <ol style="list-style-type: none"> <li>1. <del>(a) et (b) au dessus ne s'appliquent pas aux étudiants inscrits aux programmes du BSe (Voir Baccalauréat ès sciences) et du BSe (sciences de l'environnement et de la conservation, bilingue).</del></li> </ol>	<p><b>Règlements de la Faculté Saint-Jean</b>  <b>Niveau académique et collation des grades</b>  <b>Collation des grades</b></p> <ol style="list-style-type: none"> <li>1. Pour obtenir un diplôme de fin d'études, une moyenne minimale de 2,0 est exigée.  <b>Note</b> : Pour obtenir un BA avec concentration, l'étudiant devra maintenir une moyenne minimale de 2,0 dans les 120 crédits attribuables au programme. Une moyenne minimale de 2,3 est exigée dans la concentration majeure.</li> <li>2. Pour obtenir un diplôme de BA avec spécialisation, l'étudiant devra maintenir une moyenne minimale de 3,0 dans les 120 crédits attribuables au programme. Une moyenne minimale de 3,3 est exigée dans la spécialisation.</li> <li>3. Pour obtenir un diplôme de BScIn (bilingue), l'étudiant devra maintenir une moyenne minimale de 2,0 dans les derniers 60 crédits. (S'il faut, pour atteindre les 60 crédits, inclure un autre semestre ou plus, les meilleurs résultats de ce semestre ou de ces semestres seront inclus. Les échecs ne sont pas inclus dans le calcul de la moyenne obtenue pour le diplôme de fin d'études.)</li> <li>4. <b>Cours obligatoires</b> : Afin de recevoir le diplôme de la Faculté Saint-Jean, tout étudiant devra avoir réussi les cours suivants : <ol style="list-style-type: none"> <li>a. le cours <b>FRANC final</b> relatif à leur programme, à savoir: <ul style="list-style-type: none"> <li>- BAA : <b>FRANC 234</b></li> <li>- BA : <b>FRANC 236</b></li> <li>- BEd : <b>FRANC 238</b></li> <li>- BEd/BSc : <b>FRANC 238</b></li> <li>- BSc : <b>FRANC 232</b></li> </ul> </li> <li>b. Un cours de 3 crédits parmi Francophonies. (Voir la classification des cours à la Classification des cours).</li> </ol> </li> </ol> <p><b>Notes</b></p>

<p>2. (b). au-dessus ne s'applique pas aux étudiants inscrits au programme du BScInf (bilingue).  <del>Voir Baccalauréat ès sciences infirmières (bilingue).</del></p>	<p>1. (a). et (b). au-dessus ne s'appliquent pas aux étudiants inscrits aux programmes du BEd/AD</p> <p>2. (b). au-dessus ne s'applique pas aux étudiants inscrits au programme du BSc Inf (bilingue) (Voir Baccalauréat ès sciences infirmières (bilingue) ni aux étudiants inscrits aux programmes du BSc (Voir Baccalauréat ès sciences).</p>
--	--

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12292">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12292</a></p>	
Current Copy	Proposed Copy
<p><b>Faculté Saint-Jean Regulations (English)  Academic Standing and Graduation  Graduation</b></p> <ol style="list-style-type: none"> <li>1. A minimum grade point average (GPA) of 2.0 is required to obtain a degree.  <b>Note:</b> To obtain a BA, students must maintain a minimum GPA of 2.0 in 120 units of course weight applicable to the program. A minimum GPA of 2.3 is required in the major concentration.</li> <li>2. To obtain a BA Honors, students must maintain a minimum GPA of 3.0 in the 120 units of course weight applicable to the program. A minimum GPA of 3.3 is required in the specialization.</li> <li>3. To obtain a BScN (Bilingual) degree), students must maintain a minimum GPA of 2.0 on the last 60 units of course weight. (If 60 units of course weight requires including another term or terms, the best results from this term or terms are included. Failing results are not included in the calculation of the graduation GPA.)</li> <li>4. Compulsory Courses: To obtain a degree from Faculté Saint-Jean, students must have successfully completed the following courses: <ol style="list-style-type: none"> <li>a. <del>FRANC 236</del></li> <li>b. 3 units of course weight selected from courses with a Francophonies content. (See Classification of Courses)</li> </ol> </li> </ol>	<p><b>Faculté Saint-Jean Regulations (English)  Academic Standing and Graduation  Academic Standing and Graduation  Graduation</b></p> <ol style="list-style-type: none"> <li>1. A minimum grade point average (GPA) of 2.0 is required to obtain a degree.  <b>Note:</b> To obtain a BA, students must maintain a minimum GPA of 2.0 in 120 units of course weight applicable to the program. A minimum GPA of 2.3 is required in the major concentration.</li> <li>2. To obtain a BA Honors, students must maintain a minimum GPA of 3.0 in the 120 units of course weight applicable to the program. A minimum GPA of 3.3 is required in the specialization.</li> <li>3. To obtain a BScN (Bilingual) degree), students must maintain a minimum GPA of 2.0 on the last 60 units of course weight. (If 60 units of course weight requires including another term or terms, the best results from this term or terms are included. Failing results are not included in the calculation of the graduation GPA.)</li> <li>4. Compulsory Courses: To obtain a degree from Faculté Saint-Jean, students must have successfully completed the following courses: <ol style="list-style-type: none"> <li>a. The final FRANC course related to their program, namely: <ul style="list-style-type: none"> <li>- BAA : FRANC 234</li> <li>- BA : FRANC 236</li> </ul> </li> </ol> </li> </ol>

<p><b>Notes</b></p> <ol style="list-style-type: none"> <li>1. (a) and (b) above do not apply to students registered in the BSc (see Bachelor of Science [Faculté Saint-Jean]), BSc (Environmental and Conservation Sciences – Bilingual).</li> <li>2. (b) above does not apply to students registered in the BScN (Bilingual) program (see Bachelor of Science in Nursing (Bilingual) [Faculté Saint-Jean]).</li> </ol>	<ul style="list-style-type: none"> <li>- BEd : FRANC 238</li> <li>- BEd/BSc : FRANC 238</li> <li>- BSc : FRANC 232</li> </ul> <p>b. 3 units of course weight selected from courses with a Francophonies content. (See Classification of Courses)</p> <p><b>Notes</b></p> <ol style="list-style-type: none"> <li>1. (a) and (b) above do not apply to students registered in the BEd/AD program</li> <li>2. (b) above does not apply to students registered in the BScN (Bilingual) program (see Bachelor of Science in Nursing (Bilingual) [Faculté Saint-Jean]), nor to students registered in the BSc programs (refer to Baccalauréat ès sciences) (see Bachelor of Science [Faculté Saint-Jean]).</li> </ol>
---	---

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.  
 Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 Faculté Saint-Jean Arts & Sciences and Education groups: November 2 and 3, 2023  
 Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
 Faculté Saint-Jean Executive Committee: November 16, 2023





**Calendar Change Request Form  
for Program and Regulation Changes**

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only)	<input type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes.

**Rationale**

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Ces changements proposés permettent d'actualiser dans l'annuaire le remplacement du cours FRANC 236-Pratique de la dissertation par le cours FRANC 238 -Français académique et professionnel pour Éducation; un cours au niveau et contenu plus adaptés aux besoins des étudiants en éducation. Cf. proposition précédente.

The proposed changes aim to update the calendar, following the replacement of the course FRANC 236 (Pratique de la dissertation) by the course FRANC 238 (Français académique et professionnel pour Éducation); a course which level and content suit better to the needs of education students. See previous proposal.

## Calendar Copy

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48038](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48038)

Current Copy	Proposed Copy
<p><b>Baccalauréat en Éducation</b>  <b>II. Secondaire [Faculté - Français]</b>  <b>BEd Secondaire : cours obligatoires selon les spécialisations majeures 33 crédits</b>  <b>Français</b></p> <ul style="list-style-type: none"> <li>● 6 crédits Français langue de niveau 300 et/ou 400</li> <li>● 6 crédits en littérature de niveau 300 et/ou 400</li> <li>● 9 crédits options parmi Francophonies (voir Classification des cours), FRANC (sauf FRANC 116, FRANC 117); LINGQ, LITT</li> <li>● <del>FRANC 236 – Pratique de la dissertation</del></li> <li>● LINGQ 200 - Introduction à l'étude du langage</li> <li>● LITT 135 - Survol de la littérature d'expression française</li> <li>● LITT 228 - Lire le texte littéraire</li> </ul> <p>.....</p> <p><b>BEd Secondaire : cours obligatoires selon les spécialisations mineures 15 crédits</b>  <b>Français</b>            3 crédits option FRANC ou LINGQ  <del>FRANC 236 – Pratique de la dissertation</del>            LINGQ 200 - Introduction à l'étude du langage            LITT 135 - Survol de la littérature d'expression française            LITT 228 - Lire le texte littéraire</p>	<p><b>Baccalauréat en Éducation</b>  <b>II. Secondaire [Faculté - Français]</b>  <b>BEd Secondaire : cours obligatoires selon les spécialisations majeures 33 crédits</b>  <b>Français</b></p> <ul style="list-style-type: none"> <li>● 6 crédits Français langue de niveau 300 et/ou 400</li> <li>● 6 crédits en littérature de niveau 300 et/ou 400</li> <li>● 9 crédits options parmi Francophonies (voir Classification des cours), FRANC (sauf FRANC 116, FRANC 117); LINGQ, LITT</li> <li>● <b>FRANC 238 - Français académique et professionnel pour Éducation</b></li> <li>● LINGQ 200 - Introduction à l'étude du langage</li> <li>● LITT 135 - Survol de la littérature d'expression française</li> <li>● LITT 228 - Lire le texte littéraire</li> </ul> <p>.....</p> <p><b>BEd Secondaire : cours obligatoires selon les spécialisations mineures 15 crédits</b>  <b>Français</b>            3 crédits option FRANC ou LINGQ  <b>FRANC 238 - Français académique et professionnel pour Éducation</b>            LINGQ 200 - Introduction à l'étude du langage            LITT 135 - Survol de la littérature d'expression française            LITT 228 - Lire le texte littéraire</p>

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48014](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48014)

### Current Copy

**Bachelor of Education [Faculté Saint-Jean]  
II. Secondary [Faculté - English]  
BEd Secondaire : cours obligatoires selon les  
spécialisations majeures 33 crédits  
Français**

- 6 crédits Français langue de niveau 300 et/ou 400
- 6 crédits en littérature de niveau 300 et/ou 400
- 9 crédits options parmi Francophonies (voir Classification des cours), FRANC (sauf FRANC 116, FRANC 117); LINGQ, LITT
- ~~FRANC 236 – Pratique de la dissertation~~
- LINGQ 200 - Introduction à l'étude du langage
- LITT 135 - Survol de la littérature d'expression française
- LITT 228 - Lire le texte littéraire

.....

**BEd Secondaire : cours obligatoires selon les  
spécialisations mineures 15 crédits  
Français**

3 crédits option FRANC ou LINGQ

~~FRANC 236 – Pratique de la dissertation~~

LINGQ 200 - Introduction à l'étude du langage

LITT 135 - Survol de la littérature d'expression française

LITT 228 - Lire le texte littéraire

### Proposed Copy

**Bachelor of Education [Faculté Saint-Jean]  
II. Secondary [Faculté - English]  
BEd Secondaire : cours obligatoires selon les  
spécialisations majeures 33 crédits  
Français**

- 6 crédits Français langue de niveau 300 et/ou 400
- 6 crédits en littérature de niveau 300 et/ou 400
- 9 crédits options parmi Francophonies (voir Classification des cours), FRANC (sauf FRANC 116, FRANC 117); LINGQ, LITT
- **FRANC 238 - Français académique et professionnel pour Éducation**
- LINGQ 200 - Introduction à l'étude du langage
- LITT 135 - Survol de la littérature d'expression française
- LITT 228 - Lire le texte littéraire

.....

**BEd Secondaire : cours obligatoires selon les  
spécialisations mineures 15 crédits  
Français**

3 crédits option FRANC ou LINGQ

**FRANC 238 - Français académique et professionnel  
pour Éducation**

LINGQ 200 - Introduction à l'étude du langage

LITT 135 - Survol de la littérature d'expression française

LITT 228 - Lire le texte littéraire

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48007](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48007)

**Baccalauréat en Éducation/Baccalauréat ès sciences  
Programmes généraux  
Faculté Saint-Jean Tableau 5 Programmes généraux  
(BEd/BSc)**

**Majeure : Sciences biologiques**

**Année 1**

- BIOLE 107 - Introduction à la biologie cellulaire
- BIOLE 108 - Introduction à la diversité biologique
- MATHQ 115 - Calcul élémentaire II 1
- PHYSQ 124 - Particules et ondes

**Baccalauréat en Éducation/Baccalauréat ès sciences  
Programmes généraux  
Faculté Saint-Jean Tableau 5 Programmes généraux  
(BEd/BSc)**

**Majeure : Sciences biologiques**

**Année 1**

- BIOLE 107 - Introduction à la biologie cellulaire
- BIOLE 108 - Introduction à la diversité biologique
- MATHQ 115 - Calcul élémentaire II 1
- PHYSQ 124 - Particules et ondes

- 6 crédits à 9 crédits option sciences
- 9 crédits à 12 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - MATHQ 114 - Calcul élémentaire
  - PHYSQ 126 - Fluides, champs et radiation

#### Année 2

- BIOLE 207 - La génétique moléculaire et l'hérédité
- BIOLE 208 - Les principes de l'écologie
- LITT 135 - Survol de la littérature d'expression française
- ~~FRANC 236 - Pratique de la dissertation~~
- 6 crédits en sciences biologiques (voir Exigences du programme)
- 9 crédits mineure en sciences (voir Exigences du programme)
- 0 crédits à 3 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits Option

.....

#### Majeure : Sciences mathématiques

##### Année 1

- BIOLE 107 - Introduction à la biologie cellulaire
- PHYSQ 126 - Fluides, champs et radiation 2
- 6 crédits à 9 crédits Option
- 9 crédits à 12 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - BIOLE 108 - Introduction à la diversité biologique
  - PHYSQ 124 - Particules et ondes
- 3 crédits parmi
  - MATHQ 114 - Calcul élémentaire
  - MATHQ 115 - Calcul élémentaire II

##### Année 2

- ~~FRANC 236 - Pratique de la dissertation~~
- LITT 135 - Survol de la littérature d'expression française
- 9 crédits mineure en sciences (voir Classification des cours)
- 0 crédits à 3 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits Option
- 3 crédits parmi
  - MATHQ 125 - Algèbre linéaire I
  - MATHQ 241 - Géométrie
  - MATHQ 243

....

#### Majeure : Sciences physiques

##### Année 1

- BIOLE 108 - Introduction à la diversité biologique 3
- CHIM 101 - Introduction à la chimie I

- 6 crédits à 9 crédits option sciences
- 9 crédits à 12 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - MATHQ 114 - Calcul élémentaire
  - PHYSQ 126 - Fluides, champs et radiation

#### Année 2

- BIOLE 207 - La génétique moléculaire et l'hérédité
- BIOLE 208 - Les principes de l'écologie
- LITT 135 - Survol de la littérature d'expression française
- **FRANC 238 - Français académique et professionnel pour Éducation**
- 6 crédits en sciences biologiques (voir Exigences du programme)
- 9 crédits mineure en sciences (voir Exigences du programme)
- 0 crédits à 3 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits Option

.....

#### Majeure : Sciences mathématiques

##### Année 1

- BIOLE 107 - Introduction à la biologie cellulaire
- PHYSQ 126 - Fluides, champs et radiation 2
- 6 crédits à 9 crédits Option
- 9 crédits à 12 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - BIOLE 108 - Introduction à la diversité biologique
  - PHYSQ 124 - Particules et ondes
- 3 crédits parmi
  - MATHQ 114 - Calcul élémentaire
  - MATHQ 115 - Calcul élémentaire II

##### Année 2

- **FRANC 238 - Français académique et professionnel pour Éducation**
- LITT 135 - Survol de la littérature d'expression française
- 9 crédits mineure en sciences (voir Classification des cours)
- 0 crédits à 3 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits Option
- 3 crédits parmi
  - MATHQ 125 - Algèbre linéaire I
  - MATHQ 241 - Géométrie
  - MATHQ 243

....

#### Majeure : Sciences physiques

##### Année 1

- CHIM 102 - Introduction à la chimie II
- MATHQ 114 - Calcul élémentaire
- PHYSQ 124 - Particules et ondes
- PHYSQ 131 - Mécanique
- 3 crédits à 6 crédits Option sciences
- 6 crédits à 9 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - BIOLE 107 - Introduction à la biologie cellulaire
  - MATHQ 115 - Calcul élémentaire II
- 3 crédits parmi
  - PHYSQ 126 - Fluides, champs et radiation
  - PHYSQ 130 - Ondes, optique et son

#### Année 2

- CHIM 261 - Chimie organique I
- CHIM 263 - Chimie organique II
- LITT 135 - Survol de la littérature d'expression française
- ~~FRANC 236 - Pratique de la dissertation~~
- 9 crédits mineure en sciences (voir Exigences du programme)
- 3 crédits à 6 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits option sciences
- 0 crédits à 3 crédits Option

....

#### Mineure : Français

- LITT 135 - Survol de la littérature d'expression française
- ~~FRANC 236 - Pratique de la dissertation~~
- 3 crédits Francophonies
- 15 crédits FRANC

#### Exigences du programme

1. Pour obtenir les deux diplômes, BEd et BSc, un étudiant doit obtenir 150 crédits répartis comme suit :
  - 72 crédits en sciences, 51 crédits en pédagogie, 24 crédits en français et 3 crédits option libre.
  - Majeure (sciences) – 36 crédits
  - Mineure (sciences) – 24 crédits
  - Mineure (français) – 24 crédits
  - Technologie (EDU M 341)– 3 crédits
  - Histoire ou philosophie de la science – 3 crédits
  - Options (sciences) – 6 crédits
  - Cours de pédagogie – 51 crédits
  - Option libre – 3 crédits
2. Normalement, un maximum de 48 crédits au niveau «junior» ou l'équivalent est autorisé dans le programme combiné.
3. Un étudiant doit réussir un minimum de 12 crédits de niveau 300 dans sa majeure et un minimum de 6 crédits de niveau 300 dans sa mineure en sciences.

- BIOLE 108 - Introduction à la diversité biologique 3
- CHIM 101 - Introduction à la chimie I
- CHIM 102 - Introduction à la chimie II
- MATHQ 114 - Calcul élémentaire
- PHYSQ 124 - Particules et ondes
- PHYSQ 131 - Mécanique
- 3 crédits à 6 crédits Option sciences
- 6 crédits à 9 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - BIOLE 107 - Introduction à la biologie cellulaire
  - MATHQ 115 - Calcul élémentaire II
- 3 crédits parmi
  - PHYSQ 126 - Fluides, champs et radiation
  - PHYSQ 130 - Ondes, optique et son

#### Année 2

- CHIM 261 - Chimie organique I
- CHIM 263 - Chimie organique II
- LITT 135 - Survol de la littérature d'expression française
- **FRANC 238 -Français académique et professionnel pour Éducation**
- 9 crédits mineure en sciences (voir Exigences du programme)
- 3 crédits à 6 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits option sciences
- 0 crédits à 3 crédits Option

....

#### Mineure : Français

- LITT 135 - Survol de la littérature d'expression française
- **FRANC 238 - Français académique et professionnel pour Éducation**
- 3 crédits Francophonies
- 15 crédits FRANC

#### Exigences du programme

1. Pour obtenir les deux diplômes, BEd et BSc, un étudiant doit obtenir 150 crédits répartis comme suit :
  - 72 crédits en sciences, 51 crédits en pédagogie, 24 crédits en français et 3 crédits option libre.
  - Majeure (sciences) – 36 crédits
  - Mineure (sciences) – 24 crédits
  - Mineure (français) – 24 crédits
  - Technologie (EDU M 341)– 3 crédits
  - Histoire ou philosophie de la science – 3 crédits
  - Options (sciences) – 6 crédits
  - Cours de pédagogie – 51 crédits
  - Option libre – 3 crédits
2. Normalement, un maximum de 48 crédits au niveau «junior» ou l'équivalent est autorisé dans le programme combiné.

<p>4. Un étudiant doit réussir à l'intérieur de sa mineure en français : <b>FRANC 236</b>, 3 crédits en Francophonies (voir Classification des cours), et 3 crédits en littérature (LITT 135).</p> <p>5. Un étudiant doit normalement réussir 30 crédits de niveau «junior» avant de pouvoir s'inscrire dans des cours de niveau «senior.»</p> <p>6. Pour être admis avec équivalences universitaires dans le programme, un étudiant doit avoir obtenu une moyenne minimale de 2,0.</p> <p>7. Pour être autorisé à poursuivre le programme, un étudiant doit conserver une moyenne minimale de 2,0. S'il n'a pas obtenu 2,0 de moyenne, l'étudiant devra se retirer du programme combiné et pourra transférer, si éligible, au programme du BEd ou du BSc.</p> <p>8. Pour recevoir les diplômes du BEd et du BSc, l'étudiant devra maintenir une moyenne minimale de 2,0 dans tous les cours avec notes et dans tous les cours de la majeure en sciences.</p> <p>9. Afin d'être recommandé pour un brevet d'enseignement temporaire, l'étudiant doit obtenir une moyenne d'au moins 2,0 dans tous les cours professionnels obligatoires.</p> <p>10. Un étudiant qui échoue aux stages I ou II (EDU S) ne peut s'inscrire à aucun autre cours de stages à la Faculté Saint-Jean et doit se retirer du programme.</p> <p>11. Un étudiant qui abandonne les stages I ou II doit obtenir la permission du Vice-doyen principal avant de s'y réinscrire.</p> <p>12. Lors de leur stage dans une école, les étudiants doivent se comporter conformément au code de déontologie de l'Alberta Teachers' Association et au University of Alberta Code of Student Behavior: Conduct and Discipline.</p> <p>Les stagiaires doivent :</p> <ol style="list-style-type: none"> <li>reconnaître et accepter que le bien-être des élèves est de la plus haute importance et que l'enseignant coopérant a la responsabilité ultime en ce qui concerne la salle de classe;</li> <li>se comporter de façon éthique et professionnelle envers tous les membres de l'école et se familiariser avec le code de déontologie de l'ATA.</li> </ol> <p>Les étudiants sont responsables de maintenir ces standards et, le cas échéant, doivent en rendre compte au <b>Vice-doyen, Éducation et au</b> Vice-doyen principal.</p>	<p>3. Un étudiant doit réussir un minimum de 12 crédits de niveau 300 dans sa majeure et un minimum de 6 crédits de niveau 300 dans sa mineure en sciences.</p> <p>4. Un étudiant doit réussir à l'intérieur de sa mineure en français : <b>FRANC 238</b>, 3 crédits en Francophonies (voir Classification des cours), et 3 crédits en littérature (LITT 135).</p> <p>5. Un étudiant doit normalement réussir 30 crédits de niveau «junior» avant de pouvoir s'inscrire dans des cours de niveau «senior.»</p> <p>6. Pour être admis avec équivalences universitaires dans le programme, un étudiant doit avoir obtenu une moyenne minimale de 2,0.</p> <p>7. Pour être autorisé à poursuivre le programme, un étudiant doit conserver une moyenne minimale de 2,0. S'il n'a pas obtenu 2,0 de moyenne, l'étudiant devra se retirer du programme combiné et pourra transférer, si éligible, au programme du BEd ou du BSc.</p> <p>8. Pour recevoir les diplômes du BEd et du BSc, l'étudiant devra maintenir une moyenne minimale de 2,0 dans tous les cours avec notes et dans tous les cours de la majeure en sciences.</p> <p>9. Afin d'être recommandé pour un brevet d'enseignement temporaire, l'étudiant doit obtenir une moyenne d'au moins 2,0 dans tous les cours professionnels obligatoires.</p> <p>10. Un étudiant qui échoue aux stages I ou II (EDU S) ne peut s'inscrire à aucun autre cours de stages à la Faculté Saint-Jean et doit se retirer du programme.</p> <p>11. Un étudiant qui abandonne les stages I ou II doit obtenir la permission du Vice-doyen principal avant de s'y réinscrire.</p> <p>12. Lors de leur stage dans une école, les étudiants doivent se comporter conformément au code de déontologie de l'Alberta Teachers' Association et au University of Alberta Code of Student Behavior: Conduct and Discipline.</p> <p>Les stagiaires doivent :</p> <ol style="list-style-type: none"> <li>reconnaître et accepter que le bien-être des élèves est de la plus haute importance et que l'enseignant coopérant a la responsabilité ultime en ce qui concerne la salle de classe;</li> <li>se comporter de façon éthique et professionnelle envers tous les membres de l'école et se familiariser avec le code de déontologie de l'ATA.</li> </ol> <p>Les étudiants sont responsables de maintenir ces standards et, le cas échéant, doivent en rendre compte <b>Vice-doyen, Éducation</b> au Vice-doyen principal.</p>
--	--

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48005](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48005)

Current Copy	Proposed Copy
<p><b>Bachelor of Education / Bachelor of Science Degrees [Faculté Saint-Jean] General Programs Faculté Saint-Jean Tableau 5 Programmes généraux (BEd/BSc)</b></p> <p><b>Majeure : Sciences biologiques</b> <b>Année 1</b></p> <ul style="list-style-type: none"><li>• BIOLE 107 - Introduction à la biologie cellulaire</li><li>• BIOLE 108 - Introduction à la diversité biologique</li><li>• MATHQ 115 - Calcul élémentaire II 1</li><li>• PHYSQ 124 - Particules et ondes</li><li>• 6 crédits à 9 crédits option sciences</li><li>• 9 crédits à 12 crédits Français langue (voir Classification des cours)</li><li>• 3 crédits parmi<ul style="list-style-type: none"><li>○ MATHQ 114 - Calcul élémentaire</li><li>○ PHYSQ 126 - Fluides, champs et radiation</li></ul></li></ul> <p><b>Année 2</b></p> <ul style="list-style-type: none"><li>• BIOLE 207 - La génétique moléculaire et l'hérédité</li><li>• BIOLE 208 - Les principes de l'écologie</li><li>• LITT 135 - Survol de la littérature d'expression française</li><li>• <del>FRANC 236 - Pratique de la dissertation</del></li><li>• 6 crédits en sciences biologiques (voir Exigences du programme)</li><li>• 9 crédits mineure en sciences (voir Exigences du programme)</li><li>• 0 crédits à 3 crédits Français langue (voir Classification des cours)</li><li>• 0 crédits à 3 crédits Option</li></ul> <p>.....</p> <p><b>Majeure : Sciences mathématiques</b> <b>Année 1</b></p> <ul style="list-style-type: none"><li>• BIOLE 107 - Introduction à la biologie cellulaire</li><li>• PHYSQ 126 - Fluides, champs et radiation 2</li><li>• 6 crédits à 9 crédits Option</li><li>• 9 crédits à 12 crédits Français langue (voir Classification des cours)</li><li>• 3 crédits parmi<ul style="list-style-type: none"><li>○ BIOLE 108 - Introduction à la diversité</li></ul></li></ul>	<p><b>Bachelor of Education / Bachelor of Science Degrees [Faculté Saint-Jean] General Programs Faculté Saint-Jean Tableau 5 Programmes généraux (BEd/BSc)</b></p> <p><b>Majeure : Sciences biologiques</b> <b>Année 1</b></p> <ul style="list-style-type: none"><li>• BIOLE 107 - Introduction à la biologie cellulaire</li><li>• BIOLE 108 - Introduction à la diversité biologique</li><li>• MATHQ 115 - Calcul élémentaire II 1</li><li>• PHYSQ 124 - Particules et ondes</li><li>• 6 crédits à 9 crédits option sciences</li><li>• 9 crédits à 12 crédits Français langue (voir Classification des cours)</li><li>• 3 crédits parmi<ul style="list-style-type: none"><li>○ MATHQ 114 - Calcul élémentaire</li><li>○ PHYSQ 126 - Fluides, champs et radiation</li></ul></li></ul> <p><b>Année 2</b></p> <ul style="list-style-type: none"><li>• BIOLE 207 - La génétique moléculaire et l'hérédité</li><li>• BIOLE 208 - Les principes de l'écologie</li><li>• LITT 135 - Survol de la littérature d'expression française</li><li>• <b>FRANC 238 - Français académique et professionnel pour Éducation</b></li><li>• 6 crédits en sciences biologiques (voir Exigences du programme)</li><li>• 9 crédits mineure en sciences (voir Exigences du programme)</li><li>• 0 crédits à 3 crédits Français langue (voir Classification des cours)</li><li>• 0 crédits à 3 crédits Option</li></ul> <p>.....</p> <p><b>Majeure : Sciences mathématiques</b> <b>Année 1</b></p> <ul style="list-style-type: none"><li>• BIOLE 107 - Introduction à la biologie cellulaire</li><li>• PHYSQ 126 - Fluides, champs et radiation 2</li><li>• 6 crédits à 9 crédits Option</li><li>• 9 crédits à 12 crédits Français langue (voir Classification des cours)</li><li>• 3 crédits parmi</li></ul>



- biologique
- PHYSQ 124 - Particules et ondes
- 3 crédits parmi
  - MATHQ 114 - Calcul élémentaire
  - MATHQ 115 - Calcul élémentaire II

#### Année 2

- ~~FRANC 236 - Pratique de la dissertation~~
- LITT 135 - Survol de la littérature d'expression française
- 9 crédits mineure en sciences (voir Classification des cours)
- 0 crédits à 3 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits Option
- 3 crédits parmi
  - MATHQ 125 - Algèbre linéaire I
  - MATHQ 241 - Géométrie
  - MATHQ 243

....

#### Majeure : Sciences physiques

##### Année 1

- BIOLE 108 - Introduction à la diversité biologique 3
- CHIM 101 - Introduction à la chimie I
- CHIM 102 - Introduction à la chimie II
- MATHQ 114 - Calcul élémentaire
- PHYSQ 124 - Particules et ondes
- PHYSQ 131 - Mécanique
- 3 crédits à 6 crédits Option sciences
- 6 crédits à 9 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - BIOLE 107 - Introduction à la biologie cellulaire
  - MATHQ 115 - Calcul élémentaire II
- 3 crédits parmi
  - PHYSQ 126 - Fluides, champs et radiation
  - PHYSQ 130 - Ondes, optique et son

##### Année 2

- CHIM 261 - Chimie organique I
- CHIM 263 - Chimie organique II
- LITT 135 - Survol de la littérature d'expression française
- ~~FRANC 236 - Pratique de la dissertation~~
- 9 crédits mineure en sciences (voir Exigences du programme)
- 3 crédits à 6 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits option sciences
- 0 crédits à 3 crédits Option

....

#### Mineure : Français

- LITT 135 - Survol de la littérature d'expression française

- BIOLE 108 - Introduction à la diversité biologique
- PHYSQ 124 - Particules et ondes
- 3 crédits parmi
  - MATHQ 114 - Calcul élémentaire
  - MATHQ 115 - Calcul élémentaire II

#### Année 2

- ~~FRANC 238 - Français académique et professionnel pour Éducation~~
- LITT 135 - Survol de la littérature d'expression française
- 9 crédits mineure en sciences (voir Classification des cours)
- 0 crédits à 3 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits Option
- 3 crédits parmi
  - MATHQ 125 - Algèbre linéaire I
  - MATHQ 241 - Géométrie
  - MATHQ 243

....

#### Majeure : Sciences physiques

##### Année 1

- BIOLE 108 - Introduction à la diversité biologique 3
- CHIM 101 - Introduction à la chimie I
- CHIM 102 - Introduction à la chimie II
- MATHQ 114 - Calcul élémentaire
- PHYSQ 124 - Particules et ondes
- PHYSQ 131 - Mécanique
- 3 crédits à 6 crédits Option sciences
- 6 crédits à 9 crédits Français langue (voir Classification des cours)
- 3 crédits parmi
  - BIOLE 107 - Introduction à la biologie cellulaire
  - MATHQ 115 - Calcul élémentaire II
- 3 crédits parmi
  - PHYSQ 126 - Fluides, champs et radiation
  - PHYSQ 130 - Ondes, optique et son

##### Année 2

- CHIM 261 - Chimie organique I
- CHIM 263 - Chimie organique II
- LITT 135 - Survol de la littérature d'expression française
- ~~FRANC 238 - Français académique et professionnel pour Éducation~~
- 9 crédits mineure en sciences (voir Exigences du programme)
- 3 crédits à 6 crédits Français langue (voir Classification des cours)
- 0 crédits à 3 crédits option sciences
- 0 crédits à 3 crédits Option

....



- **FRANC 236 – Pratique de la dissertation**
- 3 crédits Francophonies
- 15 crédits FRANC

.....

### Program Requirements

1. To obtain both the BEd degree and the BSc degree, students must successfully complete ★150 as follows:  
 ★72 in science, ★51 in education, ★24 in French, and ★3 in free option.  
 Major (Science) – ★36  
 Minor in Science – ★24  
 Minor in French – ★24  
 Technology (EDU M 341) – ★3  
 History or Philosophy of Science – ★3  
 Options (Science) – ★6  
 Education courses – ★51  
 Free option – ★3
2. Normally, a maximum of ★48 at the junior level is permitted in the combined program.
3. Students must successfully complete a minimum of ★12 at the 300-level in the major and, in addition, a minimum of ★6 at the 300-level in the science minor.
4. The following courses must be included in the French minor: **FRANC 236**, ★3 in Francophonies (see Classification of Courses) and ★3 in literature (LITT 135).
5. Normally at least ★30 at the junior-level must be successfully completed before students may register in senior-level courses.
6. In order to be admitted with advanced credits in the program, students must normally possess a Grade Point Average of at least 2.0.
7. To continue in the combined BEd/BSc program requires a Grade Point Average of at least 2.0. Students who do not meet this requirement must withdraw from the combined program and may apply for admission to either a BEd program or a BSc program if eligible.
8. To obtain both the BEd and BSc degrees, students must maintain a GPA of 2.0 in all courses for which a mark is granted and in all the major courses in science.
9. To be recommended for the Interim Professional Certificate, students must obtain a Grade Point Average of at least 2.0 in all compulsory professional courses.
10. Students who receive a failing grade in “Stages I or II” will not be allowed to register in any further Education Field Experiences courses at Faculté Saint-Jean and will be required to withdraw from the program.
11. Students who withdraw from “Stages I or II” must

### Mineure : Français

- LITT 135 - Survol de la littérature d'expression française
- **FRANC 238 - Français académique et professionnel pour Éducation**
- 3 crédits Francophonies
- 15 crédits FRANC

.....

### Program Requirements

1. To obtain both the BEd degree and the BSc degree, students must successfully complete ★150 as follows:  
 ★72 in science, ★51 in education, ★24 in French, and ★3 in free option.  
 Major (Science) – ★36  
 Minor in Science – ★24  
 Minor in French – ★24  
 Technology (EDU M 341) – ★3  
 History or Philosophy of Science – ★3  
 Options (Science) – ★6  
 Education courses – ★51  
 Free option – ★3
2. Normally, a maximum of ★48 at the junior level is permitted in the combined program.
3. Students must successfully complete a minimum of ★12 at the 300-level in the major and, in addition, a minimum of ★6 at the 300-level in the science minor.
4. The following courses must be included in the French minor: **FRANC 238**, ★3 in Francophonies (see Classification of Courses) and ★3 in literature (LITT 135).
5. Normally at least ★30 at the junior-level must be successfully completed before students may register in senior-level courses.
6. In order to be admitted with advanced credits in the program, students must normally possess a Grade Point Average of at least 2.0.
7. To continue in the combined BEd/BSc program requires a Grade Point Average of at least 2.0. Students who do not meet this requirement must withdraw from the combined program and may apply for admission to either a BEd program or a BSc program if eligible.
8. To obtain both the BEd and BSc degrees, students must maintain a GPA of 2.0 in all courses for which a mark is granted and in all the major courses in science.
9. To be recommended for the Interim Professional Certificate, students must obtain a Grade Point Average of at least 2.0 in all compulsory professional courses.
10. Students who receive a failing grade in “Stages I or II” will not be allowed to register in any further

<p>have the approval of the Vice-Dean to reregister for these courses.</p> <p>12. Students in schools during the field experience are expected to conduct themselves according to the Alberta Teachers' Association Code of Professional Conduct and the University of Alberta Code of Student Behaviour: Conduct and Discipline. Student teachers shall</p> <ul style="list-style-type: none"> <li>a. recognize and accept that the welfare of the students is of ultimate concern and that the cooperating teacher has the final responsibility for what occurs in the classroom; and</li> <li>b. maintain an ethical and professional attitude toward all members of the school community and become familiar with the Alberta Teachers' Association Code of Professional Conduct.</li> </ul> <p>Students are held accountable to these standards and answerable to the <del>Associate Dean, Education and the</del> Vice-Dean.</p>	<p>Education Field Experiences courses at Faculté Saint-Jean and will be required to withdraw from the program.</p> <p>11. Students who withdraw from "Stages I or II" must have the approval of the Vice-Dean to reregister for these courses.</p> <p>12. Students in schools during the field experience are expected to conduct themselves according to the Alberta Teachers' Association Code of Professional Conduct and the University of Alberta Code of Student Behaviour: Conduct and Discipline. Student teachers shall</p> <ul style="list-style-type: none"> <li>a. recognize and accept that the welfare of the students is of ultimate concern and that the cooperating teacher has the final responsibility for what occurs in the classroom; and</li> <li>b. maintain an ethical and professional attitude toward all members of the school community and become familiar with the Alberta Teachers' Association Code of Professional Conduct.</li> </ul> <p>Students are held accountable to these standards and answerable to the Vice-Dean.</p>
--	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. Faculté Saint-Jean Council : November 23, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates. Faculté Saint-Jean Education group: November 2, 2023 Faculté Saint-Jean Academic Planning Committee: November 9, 2023 Faculté Saint-Jean Executive Committee: November 16, 2023</p>

## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Le cours ADRAM 322 (Théâtre pour l'enfance et la jeunesse) est jumelé avec le cours EDU M 360 (L'art dramatique comme outil pédagogique). Or EDU M 360 est exigé comme préalable pour ADRAM 322. La proposition vise de supprimer ce prérequis, jugé non pertinent.

The course ADRAM 322 (Théâtre pour l'enfance et la jeunesse) is paired with the course EDU M 360 (L'art dramatique comme outil pédagogique). However, EDU M 360 is currently required as a prerequisite for ADRAM 322. The proposal aims to remove this prerequisite, deemed irrelevant.

### Course Template

<b>CURRENT</b> Current: <b>Removed language</b>	<b>PROPOSED</b> Proposed: <b>New language</b>
<p><b>ADRAM 322 - Théâtre pour l'enfance et la jeunesse</b> Course Career <b>Undergraduate</b> Units <b>3</b> Approved Hours <b>VARIABLE</b> Fee index <b>6</b> Faculty <b>Faculté Saint-Jean</b> Department <b>Saint-Jean</b> Typically Offered <b>l'un ou l'autre semestre</b></p> <p><b>Description</b> Études théoriques et pratiques des tendances actuelles du théâtre pour l'enfance et la jeunesse, y compris l'écriture, la mise en scène, le jeu, la dramaturgie et la réception par les</p>	<p><b>ADRAM 322 - Théâtre pour l'enfance et la jeunesse</b> Course Career <b>Undergraduate</b> Units <b>3</b> Approved Hours <b>VARIABLE</b> Fee index <b>6</b> Faculty <b>Faculté Saint-Jean</b> Department <b>Saint-Jean</b> Typically Offered <b>l'un ou l'autre semestre</b></p> <p><b>Description</b> Études théoriques et pratiques des tendances actuelles du théâtre pour l'enfance et la jeunesse, y compris l'écriture, la mise en scène, le jeu, la dramaturgie et la réception par les jeunes publics et</p>

jeunes publics et dans le contexte scolaire. Préalable(s): 3 crédits en ADRAM ou EDUM 360 (ou l'équivalent). Note: ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour ADRAM 321.

dans le contexte scolaire. Préalable: 3 crédits en ADRAM. Note: ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour ADRAM 321.

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

Approval by the Faculté Saint-Jean Executive Committee on Behalf of the Faculté Saint-Jean Council: November 16, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculté Saint-Jean Arts & Sciences group: November 3, 2023

Faculté Saint-Jean Academic Planning Committee: November 9, 2023

## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Ce cours a maintenant un équivalent en anglais au Campus Nord : CHEM 306 - Green Chemistry .  
Le changement proposé à la description du cours CHIM 340 précise que les étudiants qui ont déjà suivi le cours CHEM 306 ne peuvent pas suivre le cours CHIM 340.

There is now an English equivalent to this course at North Campus: CHEM 306: Green Chemistry.  
The proposed change to the CHIM 340 course description is to indicate that students who have taken CHEM 306 are not eligible to take CHIM 340.

### Course Template

<b>CURRENT</b> Current: <b>Removed language</b>	<b>PROPOSED</b> Proposed: <b>New language</b>
<p><b>CHIM 340 - Chimie verte</b> Course Career Undergraduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Faculté Saint-Jean Department Saint-Jean Typically Offered l'un ou l'autre semestre</p> <p><b>Description</b> Introduction à la chimie verte. Les douze principes de la chimie verte ; Déchets chimiques : Impacts sur la santé et l'environnement, et prévention ; Nouvelles réactions et méthodes utilisant des produits chimiques bénins ; Ressources renouvelables ; Biocatalyse et bioprocédés.</p>	<p><b>CHIM 340 - Chimie verte</b> Course Career Undergraduate Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Faculté Saint-Jean Department Saint-Jean Typically Offered l'un ou l'autre semestre</p> <p><b>Description</b> Introduction à la chimie verte. Les douze principes de la chimie verte ; Déchets chimiques : Impacts sur la santé et l'environnement, et prévention ; Nouvelles réactions et méthodes utilisant des produits chimiques bénins ; Ressources renouvelables ;</p>

Préalable : CHIM 263. Note: Ce cours n'est pas le même que CHEM 303 ou CHEM 305.

Biocatalyse et bioprocédés. Préalable : CHIM 263.  
Note(s) : (1) Ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour CHEM 306. (2) Ce cours n'est pas le même que CHEM 303 ou CHEM 305.

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.

Approval by the Faculté Saint-Jean Executive Committee on Behalf of the Faculté Saint-Jean Council: November 16, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Department of Chemistry of the Faculty of Science has been informed

Faculté Saint-Jean Arts & Sciences group: November 3, 2023

Faculté Saint-Jean Academic Planning Committee: November 9, 2023

# Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - <a href="mailto:hsafouhi@ualberta.ca">hsafouhi@ualberta.ca</a> )
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

On a besoin d'aligner les préalables de ECONE 384 sur ceux de ECON 384, sans quoi les étudiants peuvent rencontrer des difficultés pour s'inscrire dans ECON 384 si ECONE 384 n'est pas offert au CSJ. Les préalables des ECON 384 sont ECON 109, ECON 281 and 299 or equivalent, and MATH 156 or equivalent.

Les préalables de ECON 385 sont ECONE 281, 282 et 299 ou équivalent.

[MATH 156](#) (Calculus for Business and Economics II) aurait pour équivalent au CSJ MATHQ 115.

Selon l'annuaire, "[ECON 109](#) (Basic Writing in Economics I) will be waived as a prerequisite upon completion of the Assessment of Reading, Comprehension, and Writing in Economics."

We need to align the prerequisites for ECONE 384 with those of ECON 384; otherwise, students may encounter difficulties when trying to enroll in ECON 384 if ECONE 384 is not offered at CSJ. The prerequisites for ECON 384 are ECON 109, ECON 281, and ECON 299 or their equivalents, as well as MATH 156 or its equivalent. The prerequisites for ECON 385 are ECONE 281, ECONE 282, and ECONE 299 or their equivalents.

MATH 156 (Calculus for Business and Economics II) would have its equivalent at CSJ in MATHQ 115.

According to the Course listings, "ECON 109 (Basic Writing in Economics I) will be waived as a prerequisite upon completion of the Assessment of Reading, Comprehension, and Writing in Economics."

## Course Template

CURRENT	PROPOSED
<p><b>ECONE 384 - Microéconomie intermédiaire II</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> l'un ou l'autre semestre</p> <p><b>Description</b>            Développement élaboré de la théorie microéconomique et de certaines applications, avec un accent sur l'équilibre général. Certains des sujets suivants seront aussi abordés : Choix intertemporels, choix risqués, l'incertain et l'hypothèse de l'utilité attendue; l'oligopole et la théorie des jeux, modèle walrasien et modèles avec entrée; économie du bien-être, biens publics, choix collectifs; problèmes d'information asymétrique (risque moral et antisélection). Préalable(s): ECONE 281 et 299 ou équivalent.</p>	<p><b>ECONE 384 - Microéconomie intermédiaire II</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> l'un ou l'autre semestre</p> <p><b>Description</b>            Développement élaboré de la théorie microéconomique et de certaines applications, avec un accent sur l'équilibre général. Certains des sujets suivants seront aussi abordés : Choix intertemporels, choix risqués, l'incertain et l'hypothèse de l'utilité attendue; l'oligopole et la théorie des jeux, modèle walrasien et modèles avec entrée; économie du bien-être, biens publics, choix collectifs; problèmes d'information asymétrique (risque moral et antisélection). Préalable(s): <b>ECON 109 ou équivalent</b>, ECONE 281 et 299 ou équivalent et <b>MATH 156 ou équivalent</b>.</p>
<p><b>ECONE 385 - Macroéconomie intermédiaire II</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> l'un ou l'autre semestre</p> <p><b>Description</b>            Théories des politiques de stabilisation; anticipation; les contraintes budgétaires du gouvernement; inflation et chômage; cycles économiques; théories de la consommation agrégées, de l'investissement, de la demande de monnaie et de l'offre de monnaie.            Préalable(s) : ECONE 281, 282 et 299 ou équivalent..</p>	<p><b>ECONE 385 - Macroéconomie intermédiaire II</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> l'un ou l'autre semestre</p> <p><b>Description</b>            Théories des politiques de stabilisation; anticipation; les contraintes budgétaires du gouvernement; inflation et chômage; cycles économiques; théories de la consommation agrégées, de l'investissement, de la demande de monnaie et de l'offre de monnaie.            Préalable(s) : <b>ECON 109 ou équivalent</b>, ECONE 281, 282 et 299 ou équivalent et <b>MATH 156 ou équivalent</b>.</p>

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.

Approval by the Faculté Saint-Jean Executive Committee on Behalf of the Faculté Saint-Jean Council: November 16, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculté Saint-Jean Arts & Sciences group: September 15, 2023

Faculté Saint-Jean Academic Planning Committee: November 9, 2023



## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

ARTE 125 (Raisonnement et pensée critique) est le préalable des deux cours d'introduction à la philosophie (PHILE 241 et PHILE 242). Ce préalable n'a cependant pas de raison d'être. Les concepts enseignés dans ARTE 125 ne sont pas directement utilisés dans les cours de philosophie. Par ailleurs, PHILE 241 est jumelé avec EDU M 248, qui lui n'exige pas ARTE 125 comme prérequis. La suppression de ce préalable permettra probablement l'augmentation des inscriptions dans ces 2 cours.

ARTE 125 (Raisonnement et pensée critique) is a prerequisite for both introductory philosophy courses (PHILE 241 and PHILE 242). However, this prerequisite is unnecessary. The concepts taught in ARTE 125 are not directly used in philosophy courses. Furthermore, PHILE 241 is paired with EDU M 248, which does not require ARTE 125 as a prerequisite. Removing this prerequisite will likely increase enrollment in these two courses.

### Course Template

<b>CURRENT</b> Current: <b>Removed language</b>	<b>PROPOSED</b> Proposed: <b>New language</b>
<b>PHILE 241 - Introduction à la philosophie occidentale</b> <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> l'un ou l'autre semestre	<b>PHILE 241 - Introduction à la philosophie occidentale</b> <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> l'un ou l'autre semestre

<p><b>Description</b> Introduction aux principaux problèmes et théories qui ont dominé la philosophie occidentale par l'étude et la discussion critique de quelques pensées majeures, notamment Platon, Aristote, Descartes et Hume. <b>Préalable: ARTE 125.</b> Note: ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour PHILE 140 et PHILE 141.</p>	<p><b>Description</b> Introduction aux principaux problèmes et théories qui ont dominé la philosophie occidentale par l'étude et la discussion critique de quelques pensées majeures, notamment Platon, Aristote, Descartes et Hume. Note: ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour PHILE 140 et PHILE 141.</p>
<p><b>PHILE 242 - Introduction aux philosophies non occidentales</b> <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> l'un ou l'autre semestre</p> <p><b>Description</b> Étude centrée sur des pensées et des cultures non occidentales, principalement, mais non exclusivement, chinoise, africaine, arabe et indienne, par l'entremise de textes originaux ou d'autres représentations possibles. Ce cours permettra ainsi de mieux reconnaître la valeur et les limites des conceptions occidentales et de s'exercer au dialogue entre les cultures. <b>Préalable: ARTE 125.</b> Note: ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour PHILE 142.</p>	<p><b>PHILE 242 - Introduction aux philosophies non occidentales</b> <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> l'un ou l'autre semestre</p> <p><b>Description</b> Étude centrée sur des pensées et des cultures non occidentales, principalement, mais non exclusivement, chinoise, africaine, arabe et indienne, par l'entremise de textes originaux ou d'autres représentations possibles. Ce cours permettra ainsi de mieux reconnaître la valeur et les limites des conceptions occidentales et de s'exercer au dialogue entre les cultures. Note: ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour PHILE 142.</p>

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.

Approval by the Faculté Saint-Jean Executive Committee on Behalf of the Faculté Saint-Jean Council: November 16, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculté Saint-Jean Arts & Sciences group: November 3, 2023

Faculté Saint-Jean Academic Planning Committee: November 9, 2023



## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

La raison de ce changement est que la description du cours reflète le contenu actuel. Il est essentiel que les étudiantes du programme BSc Inf (bilingue) reçoivent le contenu nécessaire pour réussir leur deuxième année de programme, notamment en intégrant les concepts de physiopathologie et de pharmacologie. Cette intégration a été mise en place depuis la refonte du programme de nursing, mais n'a pas encore été incorporée dans la description.

The reason for this change is to ensure that the course description reflects the current content. It's essential that BScInf (bilingual) students receive the necessary content to succeed in their second year of the program, including integrating concepts of pathophysiology and pharmacology. This integration has been in place since the nursing curriculum redesign but has not yet been incorporated into the course description.

### Course Template

CURRENT	PROPOSED
Current: <b>Removed language</b>	Proposed: <b>New language</b>
<b>PHYSE 152 - Physiologie</b> <b>Course Career</b> Undergraduate <b>Units</b> 6 <b>Approved Hours</b> 5-0-0 <b>Fee index</b> 12 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> aux deux semestres  <b>Description</b>	<b>PHYSE 152 - Physiologie</b> <b>Course Career</b> Undergraduate <b>Units</b> 6 <b>Approved Hours</b> 5-0-0 <b>Fee index</b> 12 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> aux deux semestres  <b>Description</b>

<p>Introduction à la physiologie humaine. Doit être complété avant l'année 2 du BSclnf (bilingue). Note(s): (1) Ce cours est réservé aux étudiants du BSclnf (bilingue). (2) Ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour NURS 150 ou 151. (3) Les étudiants du BSclnf (bilingue) et ceux qui envisagent de transférer au programme doivent obtenir une note de passage d'au moins C+ afin de pouvoir continuer dans le programme.</p>	<p>Introduction à la physiologie et à la pathophysiologie humaine ainsi qu'à la pharmacologie. L'accent est mis sur l'application de la physiologie humaine aux concepts de la pathophysiologie et de la pharmacologie. Le cours se concentre sur les altérations de la physiologie normale et introduit les concepts de pharmacocinétique et de pharmacodynamie en relation avec les altérations de la santé. Doit être complété avant l'année 2 du BSclnf (bilingue). Note(s): (1) Ce cours est réservé aux étudiants du BSclnf (bilingue). (2) Ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour NURS 150 ou 151. (3) Les étudiants du BSclnf (bilingue) et ceux qui envisagent de transférer au programme doivent obtenir une note de passage d'au moins C+ afin de pouvoir continuer dans le programme.</p>
---	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. Approval by the Faculté Saint-Jean Executive Committee on Behalf of the Faculté Saint-Jean Council: November 16, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates. The Faculty of Nursing has been informed of this proposal and supports it : Bilingual Leadership Committee (March 23, 2023) Faculté Saint-Jean Arts &amp; Sciences group: November 3, 2023 Faculté Saint-Jean Academic Planning Committee: November 9, 2023</p>

## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Le changement de PHILE 125 en ARTE 125 a été adopté en 2019, dans le cadre d'une réforme avortée du BA. Avec du recul, il s'avère que ce changement était peu avisé, car le sigle ARTE (créé pour les cours généraux du tronc commun) reste mystérieux, en particulier pour les conseillers et les étudiants. C'est aussi le seul cours (mis à l'horaire) siglé avec cet acronyme. Tant que cela est possible, il est donc souhaitable d'ancrer à nouveau ce cours dans une discipline et de lui rendre son ancien sigle. On espère que cela lui donnera plus de visibilité et d'attrait auprès des étudiants.

The change from PHILE 125 to ARTE 125 was adopted in 2019 as part of an aborted Bachelor of Arts (BA) reform. In retrospect, this change was unwise, as the acronym ARTE, designed for general core curriculum courses, is confusing to advisors and students. It's also the only course scheduled with this designation. If possible, it's best to revert this course to its original discipline and designation to make it more appealing to students.

### Course Template

<b>CURRENT</b> Current: <b>Removed language</b>	<b>PROPOSED</b> Proposed: <b>New language</b>
<b>ARTE-125 - Raisonement et pensée critique</b> <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> l'un ou l'autre semestre  <b>Description</b> Acquisition de compétences fondamentales en raisonnement et analyse critique des argumentations par l'étude des types d'argumentation, des structures	<b>PHILE 125 - Raisonement et pensée critique</b> <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Faculté Saint-Jean <b>Department</b> Saint-Jean <b>Typically Offered</b> l'un ou l'autre semestre  <b>Description</b> Acquisition de compétences fondamentales en raisonnement et analyse critique des argumentations par l'étude des types d'argumentation, des structures

<p>logiques, des critères employés dans l'évaluation des arguments et des sophismes. La matière du cours inclura une initiation à la méthode philosophique, à la recherche documentaire et à la rédaction d'un travail scientifique.  Note : Ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour <b>PHILE</b> 125.</p>	<p>logiques, des critères employés dans l'évaluation des arguments et des sophismes. La matière du cours inclura une initiation à la méthode philosophique, à la recherche documentaire et à la rédaction d'un travail scientifique. Note : Ce cours n'est pas accessible aux étudiants ayant ou postulant des crédits pour <b>ARTE</b> 125.</p>
--	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date.  Faculté Saint-Jean Council : November 23, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  Consultation with the Office of the Registrar, Jesse Luyendyk  Faculté Saint-Jean Arts &amp; Sciences group: November 3, 2023  Faculté Saint-Jean Academic Planning Committee: November 9, 2023  Faculté Saint-Jean Executive Committee: November 16, 2023</p>



**Calendar Change Request Form  
for Program and Regulation Changes**

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	yes

**Rationale**

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

La proposition recommande d'apporter les changements suivants :

- Le terme "Beaux-Arts" est daté et peu compris des étudiants du BA qui doivent prendre \*6 dans ce domaine. On propose de le remplacer par "Expression artistique".
- Deux mises à jour du tronc commun du programme de BA sont aussi faites : suppression de la mention de MATHQ 113 qui n'existe plus et remplacement de ARTE 125 par PHILE 125, suite au changement de sigle de ce cours. On propose enfin d'ajouter LINGQ 340 (Sociolinguistique du français) comme option supplémentaire pour 3 crédits du tronc commun, car ce cours est d'un intérêt plus général que LINGQ 320, et donc plus pertinent pour le tronc commun.

---

The proposal recommends making the following changes:

- Replace the outdated and poorly understood term 'Beaux-Arts' with 'Artistic Expression' for BA students in the program who must take \*6 in this category
- Update the BA program core curriculum by removing MATHQ 113 (no longer offered) and replacing ARTE 125 with PHILE 125 due to a course designation change. Add LINGQ 340 (Sociolinguistics of French) as a 3-credit option in the core curriculum because it's more broadly appealing than LINGQ 320, making it a better fit for the BA program.

## Calendar Copy

URL in current Calendar (or "New page")

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12293&hl=%22beaux%22&returnto=search>

Current Copy	Proposed Copy
<p><b>Règlements de la Faculté Saint-Jean</b>  <b>Classification des cours</b>            Pour répondre aux exigences de son programme d'études, l'étudiant est obligé de choisir des cours parmi des catégories thématiques différentes. Afin de faciliter ce choix, la Faculté propose la classification suivante :</p> <p><b>Anglais langue</b>            ALS</p> <p><b>Beaux-Arts et Littérature</b>  <del>Beaux-Arts</del>: ADRAM; MUSIQ.            Littérature: ANGL; FRANC 395, FRANC 484; LITT</p> <p><b>Canadien</b>            ECONE 101, ECONE 102, ECONE 223; EDU F 235; ETCAN; HISTE 260, HISTE 261, HISTE 460, HISTE 476; LITT 224, LITT 334, LITT 482; MUSIQ 215; SC PO 225, SC PO 226, SC PO 320, SC PO 423, SC PO 428; SCSOC 120, SCSOC 212, SCSOC 215, SCSOC 222; SOCIE 260, SOCIE 301, SOCIE 368.</p> <p><b>Francophonies</b>            ADRAM 302, ADRAM 403; EDU F 235; ETCAN 201, ETCAN 330, ETCAN 332, ETCAN 360; FRANC 395; HISTE 325, HISTE 476; LINGQ 305, LINGQ 340; LITT 224; LITT 228, LITT 230, LITT 233, LITT 302, LITT 305, LITT 334, LITT 335, LITT 336, LITT 403, LITT 475, LITT 482, LITT 485, LITT 486 ; MUSIQ 215; SOCIE 368.</p> <p><b>Français langue</b>            FRANC 116, FRANC 117, FRANC 216, FRANC 217, FRANC 226, FRANC 227, FRANC 232, FRANC 400; LINGQ.</p> <p><b>Sciences</b>            ANATE; BIOCM; BIOLE; CHIM; GENEQ; IMINE; INFOR; MATHQ; MICRE; PHYSE; PHYSQ; PSYCE 104, PSYCE 258, PSYCE 275, PSYCE 282, PSYCE</p>	<p><b>Règlements de la Faculté Saint-Jean</b>  <b>Classification des cours</b>            Pour répondre aux exigences de son programme d'études, l'étudiant est obligé de choisir des cours parmi des catégories thématiques différentes. Afin de faciliter ce choix, la Faculté propose la classification suivante :</p> <p><b>Anglais langue</b>            ALS</p> <p><b>Expression artistique et Littérature</b>  <del>Expression artistique</del>: ADRAM; MUSIQ.            Littérature: ANGL; FRANC 395, FRANC 484; LITT</p> <p><b>Canadien</b>            ECONE 101, ECONE 102, ECONE 223; EDU F 235; ETCAN; HISTE 260, HISTE 261, HISTE 460, HISTE 476; LITT 224, LITT 334, LITT 482; MUSIQ 215; SC PO 225, SC PO 226, SC PO 320, SC PO 423, SC PO 428; SCSOC 120, SCSOC 212, SCSOC 215, SCSOC 222; SOCIE 260, SOCIE 301, SOCIE 368.</p> <p><b>Francophonies</b>            ADRAM 302, ADRAM 403; EDU F 235; ETCAN 201, ETCAN 330, ETCAN 332, ETCAN 360; FRANC 395; HISTE 325, HISTE 476; LINGQ 305, LINGQ 340; LITT 224; LITT 228, LITT 230, LITT 233, LITT 302, LITT 305, LITT 334, LITT 335, LITT 336, LITT 403, LITT 475, LITT 482, LITT 485, LITT 486 ; MUSIQ 215; SOCIE 368.</p> <p><b>Français langue</b>            FRANC 116, FRANC 117, FRANC 216, FRANC 217, FRANC 226, FRANC 227, FRANC 232, FRANC 400; LINGQ.</p> <p><b>Sciences</b>            ANATE; BIOCM; BIOLE; CHIM; GENEQ; IMINE; INFOR; MATHQ; MICRE; PHYSE; PHYSQ; PSYCE 104, PSYCE 258, PSYCE 275, PSYCE 282, PSYCE</p>



<p>367, PSYCE 377, PSYCE 381, PSYCE 458, PSYCE 496; STATQ; ZOOLE.</p> <p><b>Sciences de l'éducation</b> EDU F; EDU P; EDU M; EDU S; M EDU.</p> <p><b>Sciences sociales</b> ADMI; ANTHE; ARTE; DEVDU; ECONE; ETCAN; ET RE; HISTE; LINGQ; PHILE; PSYCE 105, PSYCE 106, PSYCE 223, PSYCE 239, PSYCE 241, PSYCE 327, PSYCE 333, PSYCE 423, PSYCE 498, SC PO; SCSOC; SCSP 520; SOCIE.</p>	<p>367, PSYCE 377, PSYCE 381, PSYCE 458, PSYCE 496; STATQ; ZOOLE.</p> <p><b>Sciences de l'éducation</b> EDU F; EDU P; EDU M; EDU S; M EDU.</p> <p><b>Sciences sociales</b> ADMI; ANTHE; ARTE; DEVDU; ECONE; ETCAN; ET RE; HISTE; LINGQ; PHILE; PSYCE 105, PSYCE 106, PSYCE 223, PSYCE 239, PSYCE 241, PSYCE 327, PSYCE 333, PSYCE 423, PSYCE 498, SC PO; SCSOC; SCSP 520; SOCIE.</p>
--	--

<p>URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12292">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12292</a></p>	
<b>Current Copy</b>	<b>Proposed Copy</b>
<p><b>Faculté Saint-Jean Regulations (English) Classification of Courses</b> In order to fulfill the requirements of a particular program of study, students must often choose courses from several different content areas. To facilitate this choice, the Faculté proposes the following classification:</p> <p><b>English Language</b> ALS</p> <p><b>Fine Arts and Literature</b> <del>Fine Arts</del>: ADRAM; MUSIQ. Literature: ANGL; FRANC 395, FRANC 484; LITT.</p> <p><b>Canadian</b> ECONE 101, ECONE 102, ECONE 223; EDU F 235; ETCAN; HISTE 260, HISTE 261, HISTE 460, HISTE 476; LITT 224, LITT 334, LITT 482; MUSIQ 215; SC PO 225, SC PO 226, SC PO 320, SC PO 423, SC PO 428; SCSOC 120, SCSOC 212, SCSOC 215, SCSOC 222, SOCIE 260, SOCIE 301, SOCIE 368.</p> <p><b>Francophonies</b> ADRAM 302, ADRAM 403; EDU F 235; ETCAN 201, ETCAN 330, ETCAN 332, ETCAN 360; FRANC 395; HISTE 325, HISTE 476; LINGQ 305, LINGQ 340; LITT 224, LITT 228, LITT 230, LITT 233, LITT 302,</p>	<p><b>Faculté Saint-Jean Regulations (English) Classification of Courses</b> In order to fulfill the requirements of a particular program of study, students must often choose courses from several different content areas. To facilitate this choice, the Faculté proposes the following classification:</p> <p><b>English Language</b> ALS</p> <p><b>Artistic Expression and Literature</b> <del>Artistic Expression</del>: ADRAM; MUSIQ. Literature: ANGL; FRANC 395, FRANC 484; LITT.</p> <p><b>Canadian</b> ECONE 101, ECONE 102, ECONE 223; EDU F 235; ETCAN; HISTE 260, HISTE 261, HISTE 460, HISTE 476; LITT 224, LITT 334, LITT 482; MUSIQ 215; SC PO 225, SC PO 226, SC PO 320, SC PO 423, SC PO 428; SCSOC 120, SCSOC 212, SCSOC 215, SCSOC 222, SOCIE 260, SOCIE 301, SOCIE 368.</p> <p><b>Francophonies</b> ADRAM 302, ADRAM 403; EDU F 235; ETCAN 201, ETCAN 330, ETCAN 332, ETCAN 360; FRANC 395; HISTE 325, HISTE 476; LINGQ 305, LINGQ 340; LITT 224, LITT 228, LITT 230, LITT 233, LITT 302,</p>

<p>LITT 305, LITT 334, LITT 335, LITT 336, LITT 403, LITT 475, LITT 482, LITT 485, LITT 486; MUSIQ 215; SOCIE 368.</p> <p><b>French Language</b> FRANC 116, FRANC 117, FRANC 216, FRANC 217, FRANC 226, FRANC 227, FRANC 232, FRANC 400; LINGQ.</p> <p><b>Sciences</b> ANATE; BIOCM; BIOLE; CHIM; GENEQ; IMINE; INFOR; MATHQ; MICRE; PHYSE; PHYSQ; PSYCE 104, PSYCE 258, PSYCE 275, PSYCE 282, PSYCE 367, PSYCE 377, PSYCE 381, PSYCE 458, PSYCE 496; STATQ; ZOOLE.</p> <p><b>Education</b> EDU F, EDU M, EDU P, EDU S; M EDU.</p> <p><b>Social Sciences</b> ADMI; ANTHE; ARTE; DEVDU; ECONE; ETCAN; ET RE; HISTE; LINGQ; PHILE; PSYCE 105, PSYCE 106, PSYCE 223, PSYCE 239, PSYCE 241, PSYCE 327, PSYCE 333, PSYCE 423, PSYCE 498; SC PO; SCSOC; SCSP 520; SOCIE.</p>	<p>LITT 305, LITT 334, LITT 335, LITT 336, LITT 403, LITT 475, LITT 482, LITT 485, LITT 486; MUSIQ 215; SOCIE 368.</p> <p><b>French Language</b> FRANC 116, FRANC 117, FRANC 216, FRANC 217, FRANC 226, FRANC 227, FRANC 232, FRANC 400; LINGQ.</p> <p><b>Sciences</b> ANATE; BIOCM; BIOLE; CHIM; GENEQ; IMINE; INFOR; MATHQ; MICRE; PHYSE; PHYSQ; PSYCE 104, PSYCE 258, PSYCE 275, PSYCE 282, PSYCE 367, PSYCE 377, PSYCE 381, PSYCE 458, PSYCE 496; STATQ; ZOOLE.</p> <p><b>Education</b> EDU F, EDU M, EDU P, EDU S; M EDU.</p> <p><b>Social Sciences</b> ADMI; ANTHE; ARTE; DEVDU; ECONE; ETCAN; ET RE; HISTE; LINGQ; PHILE; PSYCE 105, PSYCE 106, PSYCE 223, PSYCE 239, PSYCE 241, PSYCE 327, PSYCE 333, PSYCE 423, PSYCE 498; SC PO; SCSOC; SCSP 520; SOCIE.</p>
--	--

## Calendar Copy

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47341&amp;hl=beaux&amp;returnto=search">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47341&amp;hl=beaux&amp;returnto=search</a></p>	
Current Copy	Proposed Copy
<p><b>Baccalauréat ès arts</b>  <b>Faculté Saint-Jean Tableau 1 : Le tronc commun du programme de BA</b>  <b>Année 1</b></p> <ul style="list-style-type: none"> <li>6 crédits à 12 crédits Français langue (Classification des cours et Cours de français)<sup>1</sup></li> <li>6 crédits en langue autre que le français+2</li> <li>6 crédits <del>Beaux-arts</del> et Littérature (Classification des cours)<sup>3</sup></li> <li>6 crédits Sciences sociales (Classification des cours)</li> <li>0 crédits à 6 crédits Option<sup>1</sup></li> </ul> <p><b>Année 2</b></p>	<p><b>Baccalauréat ès arts</b>  <b>Faculté Saint-Jean Tableau 1 : Le tronc commun du programme de BA</b>  <b>Année 1</b></p> <ul style="list-style-type: none"> <li>6 crédits à 12 crédits Français langue (Classification des cours et Cours de français)<sup>1</sup></li> <li>6 crédits en langue autre que le français<sup>2</sup></li> <li>6 crédits <b>Expression artistique</b> et Littérature (Classification des cours)<sup>3</sup></li> <li>6 crédits Sciences sociales (Classification des cours)</li> <li>0 crédits à 6 crédits Option<sup>1</sup></li> </ul> <p><b>Année 2</b></p>

- 0 crédits à 3 crédits Français langue (Classification des cours et Cours de français)<sup>1</sup>
- LITT 135 - Survol de la littérature d'expression française
- FRANC 236 - Pratique de la dissertation
- HISTE 121 - Histoire des mondes connectés: 1500-1815 **ET**
- HISTE 122 - Histoire des mondes connectés depuis 1815  
**OU**
- PHILE 241 - Introduction à la philosophie occidentale **ET**
- PHILE 242 - Introduction aux philosophies non occidentales
- 3 crédits Francophonies (Classification des cours)
- 6 crédits Sciences<sup>3</sup>
- 6 crédits Option
- 3 crédits parmi
  - ECONE 299 - Méthodes quantitatives en économie
  - LINGQ 320 - Phonétique et phonologie du français canadien
  - MATHQ 114 - Calcul élémentaire **OU**
  - ~~MATHQ 113~~
  - MATHQ 115 - Calcul élémentaire II
  - MATHQ 125 - Algèbre linéaire I
  - ~~ARTE 125~~ - Raisonnement et pensée critique
  - SCSOC 322 - Statistiques pour les sciences sociales
  - STATQ 151 - Introduction à la statistique appliquée I **OU**
  - SCI 151 - InSciTE: Scientific Inquiry and Data Analysis

### Notes

<sup>1</sup> L'étudiant qui s'inscrit à la Faculté Saint-Jean est orienté dans les cours de français selon le programme d'études secondaires préalablement suivi (voir Cours de français).

<sup>2</sup> ANGL ou ENGL peut satisfaire à cette exigence.

<sup>3</sup> L'étudiant inscrit au programme avec spécialisation doit réussir 6 crédits en **beaux-arts** et Littérature ou 6 crédits en sciences, au choix. Par conséquent, il peut remplacer une de ces exigences par 6 crédits en options.

### II. BA avec spécialisation

Pour le BA avec spécialisation, l'étudiant doit réussir un minimum de 48 crédits et un maximum de 60 crédits de niveau senior, dont au moins 6 crédits de

- 0 crédits à 3 crédits Français langue (Classification des cours et Cours de français)<sup>1</sup>
- LITT 135 - Survol de la littérature d'expression française
- FRANC 236 - Pratique de la dissertation
- HISTE 121 - Histoire des mondes connectés: 1500-1815 **ET**
- HISTE 122 - Histoire des mondes connectés depuis 1815  
**OU**
- PHILE 241 - Introduction à la philosophie occidentale **ET**
- PHILE 242 - Introduction aux philosophies non occidentales
- 3 crédits Francophonies (Classification des cours)
- 6 crédits Sciences<sup>3</sup>
- 6 crédits Option
- 3 crédits parmi
  - ECONE 299 - Méthodes quantitatives en économie
  - LINGQ 320 - Phonétique et phonologie du français canadien
  - **LINGQ 340 Sociolinguistique du français**
  - MATHQ 114 - Calcul élémentaire
  - MATHQ 115 - Calcul élémentaire II
  - MATHQ 125 - Algèbre linéaire I
  - **PHILE 125** - Raisonnement et pensée critique
  - SCSOC 322 - Statistiques pour les sciences sociales
  - STATQ 151 - Introduction à la statistique appliquée I **OU**
  - SCI 151 - InSciTE: Scientific Inquiry and Data Analysis

### Notes

<sup>1</sup> L'étudiant qui s'inscrit à la Faculté Saint-Jean est orienté dans les cours de français selon le programme d'études secondaires préalablement suivi (voir Cours de français).

<sup>2</sup> ANGL ou ENGL peut satisfaire à cette exigence.

<sup>3</sup> L'étudiant inscrit au programme avec spécialisation doit réussir 6 crédits en **Expression artistique** et Littérature ou 6 crédits en sciences, au choix. Par conséquent, il peut remplacer une de ces exigences par 6 crédits en options.

### II. BA avec spécialisation

Pour le BA avec spécialisation, l'étudiant doit réussir un minimum de 48 crédits et un maximum de 60

niveau 400, dans un des domaines suivants : Études canadiennes; Études interdisciplinaires; Français-langue et littérature (française et canadienne-française); Sciences sociopolitiques.

Le programme de BA avec spécialisation sera normalement complété en quatre années consécutives d'études et l'étudiant suivra un minimum de 30 crédits chaque année scolaire. Des exceptions à ce règlement peuvent être permises avec l'accord du Vice-doyen aux affaires académiques.

Spécialisation en Études canadiennes  
Spécialisation en Études interdisciplinaires  
Spécialisation en Français—langue et littérature  
Spécialisation en Sciences socio-politiques

#### **Les exigences communes**

1. Le Baccalauréat ès arts de la Faculté est un programme de quatre ans, soit 120 crédits.
2. Les exigences relatives aux cours de français sont celles de la Faculté Saint-Jean.
3. L'étudiant doit réussir 6 crédits dans un cours de langue autre que le français.
4. L'étudiant doit réussir LITT 135, normalement au cours de la deuxième année de son programme.
5. L'étudiant inscrit au programme de BA doit réussir 6 crédits en **beaux-arts** et Littérature 6 crédits en sciences. L'étudiant inscrit au programme de BA avec spécialisation doit réussir 6 crédits en **beaux-arts** et Littérature ou 6 crédits en sciences, au choix.
6. Les options peuvent être des cours d'arts ou de science. Néanmoins, un maximum de 12 crédits peut être suivi dans des domaines autres que les arts et les sciences.
7. Exceptionnellement, le Vice-doyen aux affaires académiques pourrait autoriser un étudiant à remplir les conditions requises pour l'obtention de son diplôme en plus ou en moins de quatre ans.
8. L'étudiant d'un programme de Sciences sociales ou Pensée philosophique et sociale doit compléter un cours de méthode de recherche, soit SCSOC 225.

...

#### **Information Supplémentaire**

Compte tenu des exigences communes aux programmes de BA de la Faculté Saint-Jean, on conseille à l'étudiant de respecter l'horaire indiqué

crédits de niveau senior, dont au moins 6 crédits de niveau 400, dans un des domaines suivants : Études canadiennes; Études interdisciplinaires; Français-langue et littérature (française et canadienne-française); Sciences sociopolitiques.

Le programme de BA avec spécialisation sera normalement complété en quatre années consécutives d'études et l'étudiant suivra un minimum de 30 crédits chaque année scolaire. Des exceptions à ce règlement peuvent être permises avec l'accord du Vice-doyen aux affaires académiques.

Spécialisation en Études canadiennes  
Spécialisation en Études interdisciplinaires  
Spécialisation en Français—langue et littérature  
Spécialisation en Sciences socio-politiques

#### **Les exigences communes**

1. Le Baccalauréat ès arts de la Faculté est un programme de quatre ans, soit 120 crédits.
2. Les exigences relatives aux cours de français sont celles de la Faculté Saint-Jean.
3. L'étudiant doit réussir 6 crédits dans un cours de langue autre que le français.
4. L'étudiant doit réussir LITT 135, normalement au cours de la deuxième année de son programme.
5. L'étudiant inscrit au programme de BA doit réussir 6 crédits en **Expression artistique** et Littérature 6 crédits en sciences. L'étudiant inscrit au programme de BA avec spécialisation doit réussir 6 crédits en **Expression artistique** et Littérature ou 6 crédits en sciences, au choix.
6. Les options peuvent être des cours d'arts ou de science. Néanmoins, un maximum de 12 crédits peut être suivi dans des domaines autres que les arts et les sciences.
7. Exceptionnellement, le Vice-doyen aux affaires académiques pourrait autoriser un étudiant à remplir les conditions requises pour l'obtention de son diplôme en plus ou en moins de quatre ans.
8. L'étudiant d'un programme de Sciences sociales ou Pensée philosophique et sociale doit compléter un cours de méthode de recherche, soit SCSOC 225.

...

#### **Information Supplémentaire**

<p>dans le tableau suivant. Toutefois, l'étudiant qui se propose de faire une mineure en Science aura intérêt à remettre certains de ces cours (par exemple, les cours de <b>Beaux-arts</b> et Littérature ou de Francophonies) à la troisième année de son programme, afin de faire de la place pour des cours préalables de la mineure en Science.</p>	<p>Compte tenu des exigences communes aux programmes de BA de la Faculté Saint-Jean, on conseille à l'étudiant de respecter l'horaire indiqué dans le tableau suivant. Toutefois, l'étudiant qui se propose de faire une mineure en Science aura intérêt à remettre certains de ces cours (par exemple, les cours <b>d'Expression artistique</b> et Littérature ou de Francophonies) à la troisième année de son programme, afin de faire de la place pour des cours préalables de la mineure en Science.</p>
--	---

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47346&amp;hl=beaux&amp;returnto=search">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47346&amp;hl=beaux&amp;returnto=search</a></p>	
Current Copy	Proposed Copy
<p><b>Bachelor of Arts [Faculté Saint-Jean]</b>  <b>Faculté Saint-Jean Tableau 1: Le tronc commun du programme de BA</b>  <b>Année 1</b></p> <ul style="list-style-type: none"> <li>• 6 crédits à 12 crédits Français langue (Classification of Courses et French Courses)<sup>1</sup></li> <li>• 6 crédits en langue autre que le français<sup>2</sup></li> <li>• 6 crédits <b>Beaux-arts</b> (Classification of Courses)<sup>3</sup></li> <li>• 6 crédits Sciences sociales (Classification of Courses)</li> <li>• 0 crédits à 6 crédits Option<sup>1</sup></li> </ul> <p><b>Année 2</b></p> <ul style="list-style-type: none"> <li>• 0 crédits à 3 crédits Français langue (Classification of Courses et French Courses)<sup>1</sup></li> <li>• LITT 135 - Survol de la littérature d'expression française</li> <li>• FRANC 236 - Pratique de la dissertation</li> <li>• HISTE 121 - Histoire des mondes connectés: 1500-1815 <b>ET</b></li> <li>• HISTE 122 - Histoire des mondes connectés depuis 1815</li> </ul> <p><b>OU</b></p> <ul style="list-style-type: none"> <li>• PHILE 241 - Introduction à la philosophie occidentale <b>ET</b></li> <li>• PHILE 242 - Introduction aux philosophies non occidentales</li> </ul>	<p><b>Bachelor of Arts [Faculté Saint-Jean]</b>  <b>Faculté Saint-Jean Tableau 1: Le tronc commun du programme de BA</b>  <b>Année 1</b></p> <ul style="list-style-type: none"> <li>• 6 crédits à 12 crédits Français langue (Classification of Courses et French Courses)<sup>1</sup></li> <li>• 6 crédits en langue autre que le français<sup>2</sup></li> <li>• 6 crédits <b>Artistic Expression</b> (Classification of Courses)<sup>3</sup></li> <li>• 6 crédits Sciences sociales (Classification of Courses)</li> <li>• 0 crédits à 6 crédits Option<sup>1</sup></li> </ul> <p><b>Année 2</b></p> <ul style="list-style-type: none"> <li>• 0 crédits à 3 crédits Français langue (Classification of Courses et French Courses)<sup>1</sup></li> <li>• LITT 135 - Survol de la littérature d'expression française</li> <li>• FRANC 236 - Pratique de la dissertation</li> <li>• HISTE 121 - Histoire des mondes connectés: 1500-1815 <b>ET</b></li> <li>• HISTE 122 - Histoire des mondes connectés depuis 1815</li> </ul> <p><b>OU</b></p> <ul style="list-style-type: none"> <li>• PHILE 241 - Introduction à la philosophie occidentale <b>ET</b></li> <li>• PHILE 242 - Introduction aux philosophies non occidentales</li> </ul>

- 3 crédits Canadien-français (Classification of Courses)
- 6 crédits Sciences<sup>3</sup>
- 6 crédits Option

### 3 crédits parmi

- ECONE 299 - Méthodes quantitatives en économie
- LINGQ 320 - Phonétique et phonologie du français canadien
- MATHQ 114 - Calcul élémentaire  
~~OU MATHQ 113~~
- MATHQ 115 - Calcul élémentaire II
- MATHQ 125 - Algèbre linéaire I
- ARTE 125 - Raisonnement et pensée critique
- SCSOC 322 - Statistiques pour les sciences sociales
- STATQ 151 - Introduction à la statistique appliquée I

### Notes

<sup>1</sup> L'étudiant qui s'inscrit à la Faculté Saint-Jean est orienté dans les cours de français selon le programme d'études secondaires préalablement suivi (voir French Courses).

<sup>2</sup> ANGL ou ENGL peut satisfaire à cette exigence.

<sup>3</sup> L'étudiant inscrit au programme avec spécialisation doit réussir 6 crédits en beaux-arts ou 6 crédits en sciences, au choix. Par conséquent, il peut remplacer une de ces exigences par 6 crédits en options.

### The BA Honors Degree

In the BA Honors, students must complete a minimum of 48 units and a maximum of 60 units at the senior level, including at least 6 units at the 400-level, in one of the following areas: Canadian Studies; Interdisciplinary Studies; French language and literature (French and French-Canadian); Socio-political Science.

Students will normally complete the BA Honors in four consecutive years of study and take at least 30 units in each academic year. Exceptions to this requirement must be approved by the Associate Dean (Academic).

Honors in Canadian Studies  
 Honors in Interdisciplinary Studies  
 Honors in French—Language and Literature  
 Honors in Socio-political Science

### Common Requirements

- The BA at Faculté Saint-Jean is a four-year program, with 120 units.

- 3 crédits Canadien-français (Classification of Courses)
- 6 crédits Sciences<sup>3</sup>
- 6 crédits Option

### 3 crédits parmi

- ECONE 299 - Méthodes quantitatives en économie
- LINGQ 320 - Phonétique et phonologie du français canadien
- LINGQ 340 - Sociolinguistique du français
- MATHQ 114 - Calcul élémentaire
- MATHQ 115 - Calcul élémentaire II
- MATHQ 125 - Algèbre linéaire I
- PHILE 125 - Raisonnement et pensée critique
- SCSOC 322 - Statistiques pour les sciences sociales
- STATQ 151 - Introduction à la statistique appliquée I

### Notes

<sup>1</sup> L'étudiant qui s'inscrit à la Faculté Saint-Jean est orienté dans les cours de français selon le programme d'études secondaires préalablement suivi (voir French Courses).

<sup>2</sup> ANGL ou ENGL peut satisfaire à cette exigence.

<sup>3</sup> L'étudiant inscrit au programme avec spécialisation doit réussir 6 crédits en Expression artistique ou 6 crédits en sciences, au choix. Par conséquent, il peut remplacer une de ces exigences par 6 crédits en options.

### The BA Honors Degree

In the BA Honors, students must complete a minimum of 48 units and a maximum of 60 units at the senior level, including at least 6 units at the 400-level, in one of the following areas: Canadian Studies; Interdisciplinary Studies; French language and literature (French and French-Canadian); Socio-political Science.

Students will normally complete the BA Honors in four consecutive years of study and take at least 30 units in each academic year. Exceptions to this requirement must be approved by the Associate Dean (Academic).

Honors in Canadian Studies  
 Honors in Interdisciplinary Studies  
 Honors in French—Language and Literature  
 Honors in Socio-political Science

### Common Requirements

- The requirements concerning French courses are those of Faculté Saint-Jean.
- Students must complete 6 units in a language course other than French.
- Students must complete LITT 135, normally during the second year of their program.
- Students registered in a program with concentration must complete 6 units in **Fine Arts** and Literature 6 units in Science. Students registered in an Honors program must complete either 6 units in **Fine Arts** and Literature or 6 units in Science.
- Options may be Arts or Science courses. However, up to 12 units may be taken in areas other than arts and science.
- Exceptionally, the Associate Dean (Academic) may authorize a student to spend less than or more than four years to meet the requirements of a degree.
- The student in a program in Social Studies or Philosophical and Social Thought must complete one course in Research methods: SCSOC 225.

#### Required

- PHILE 241 - Introduction à la philosophie occidentale AND
- PHILE 242 - Introduction aux philosophies non occidentales OR
- HISTE 121 - Histoire des mondes connectés: 1500-1815 AND
- HISTE 122 - Histoire des mondes connectés depuis 1815
- Students must complete 3 units by the end of the second year of their program.
- ECONE 299 - Méthodes quantitatives en économie
- LINGQ 320 - Phonétique et phonologie du français canadien
- MUSIQ 100 - Les rudiments de la musique
- MATHQ 114 - Calcul élémentaire **OR**
- **MATHQ 113**
- MATHQ 115 - Calcul élémentaire II
- MATHQ 125 - Algèbre linéaire I
- **ARTE** 125 - Raisonnement et pensée critique
- SCSOC 322 - Statistiques pour les sciences sociales
- STATQ 151 - Introduction à la statistique appliquée I OR
- SCI 151 - InSciTE: Scientific Inquiry and Data Analysis

- The BA at Faculté Saint-Jean is a four-year program, with 120 units.
- The requirements concerning French courses are those of Faculté Saint-Jean.
- Students must complete 6 units in a language course other than French.
- Students must complete LITT 135, normally during the second year of their program.
- Students registered in a program with concentration must complete 6 units in **Artistic Expression** and Literature 6 units in Science. Students registered in an Honors program must complete either 6 units in **Artistic Expression** and Literature or 6 units in Science.
- Options may be Arts or Science courses. However, up to 12 units may be taken in areas other than arts and science.
- Exceptionally, the Associate Dean (Academic) may authorize a student to spend less than or more than four years to meet the requirements of a degree.
- The student in a program in Social Studies or Philosophical and Social Thought must complete one course in Research methods: SCSOC 225.

#### Required

- PHILE 241 - Introduction à la philosophie occidentale AND
- PHILE 242 - Introduction aux philosophies non occidentales OR
- HISTE 121 - Histoire des mondes connectés: 1500-1815 AND
- HISTE 122 - Histoire des mondes connectés depuis 1815
- Students must complete 3 units by the end of the second year of their program.
- ECONE 299 - Méthodes quantitatives en économie
- LINGQ 320 - Phonétique et phonologie du français canadien
- **LINGQ 340 Sociolinguistique du français**
- MUSIQ 100 - Les rudiments de la musique
- MATHQ 114 - Calcul élémentaire
- MATHQ 115 - Calcul élémentaire II
- MATHQ 125 - Algèbre linéaire I
- **PHILE** 125 - Raisonnement et pensée critique
- SCSOC 322 - Statistiques pour les sciences sociales



<p><b>Additional Information:</b> Given the common requirements for the BA program at Faculté Saint-Jean, students are advised to respect the following timetable. However, students wishing to minor in Science may want to defer certain courses (for example, <b>Fine Arts</b> and Literature or Francophonies) to the third year of their program in order to leave room for prerequisite courses in the Science minor.</p>	<ul style="list-style-type: none"> <li>• STATQ 151 - Introduction à la statistique appliquée I OR</li> <li>• SCI 151 - InSciTE: Scientific Inquiry and Data Analysis</li> </ul> <p><b>Additional Information:</b> Given the common requirements for the BA program at Faculté Saint-Jean, students are advised to respect the following timetable. However, students wishing to minor in Science may want to defer certain courses (for example, <b>Artistic Expression</b> and Literature or Francophonies) to the third year of their program in order to leave room for prerequisite courses in the Science minor.</p>
---	---

<p>URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47982&amp;hl=%22ARTE+125%22&amp;returnto=search">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poide=47982&amp;hl=%22ARTE+125%22&amp;returnto=search</a></p>	
Current Copy	Proposed Copy
<p><b>Baccalauréat bilingue en Administration des affaires</b></p> <p><b>Le programme</b> <b>Année préparatoire suivie à la Faculté Saint-Jean</b> <b>Année 1</b></p> <ul style="list-style-type: none"> <li>• 6 crédits ANGL OU ENGL</li> <li>• ECONE 101 - Introduction à la micro-économie</li> <li>• ECONE 102 - Introduction à la macro-économie</li> <li>• MATHQ 114 - Calcul élémentaire</li> <li>• STATQ 151 - Introduction à la statistique appliquée I</li> <li>• 6 crédits FRANC</li> </ul> <p><b>6 crédits à 12 crédits parmi</b></p> <ul style="list-style-type: none"> <li>• ADRAM 101 - Introduction à l'art théâtral</li> <li>• ADRAM 103 - Les procédés dramatiques</li> <li>• ANTHE 101 - Introduction à l'anthropologie</li> <li>• <b>ARTE</b> 125 - Raisonnement et pensée critique</li> <li>• DEVDU 201 - Introduction au développement durable</li> <li>• DEVDU 202 - Développement durable mondial et objectifs de développement durable</li> <li>• ETCAN 101 - Introduction à l'étude du Canada</li> <li>• HISTE 121 - Histoire des mondes connectés: 1500-1815</li> <li>• HISTE 122 - Histoire des mondes connectés depuis 1815</li> <li>• PHILE 241 - Introduction à la philosophie occidentale</li> <li>• PHILE 242 - Introduction aux philosophies non occidentales</li> <li>• PSYCE 104 - Procédés psychologiques de base</li> <li>• PSYCE 105 - Comportement social et individuel</li> <li>• SC PO 101 - Introduction au gouvernement</li> <li>• SC PO 102 - Introduction à la politique</li> </ul>	<p><b>Baccalauréat bilingue en Administration des affaires</b></p> <p><b>Le programme</b> <b>Année préparatoire suivie à la Faculté Saint-Jean</b> <b>Année 1</b></p> <ul style="list-style-type: none"> <li>• 6 crédits ANGL OU ENGL</li> <li>• ECONE 101 - Introduction à la micro-économie</li> <li>• ECONE 102 - Introduction à la macro-économie</li> <li>• MATHQ 114 - Calcul élémentaire</li> <li>• STATQ 151 - Introduction à la statistique appliquée I</li> <li>• 6 crédits FRANC</li> </ul> <p><b>6 crédits à 12 crédits parmi</b></p> <ul style="list-style-type: none"> <li>• ADRAM 101 - Introduction à l'art théâtral</li> <li>• ADRAM 103 - Les procédés dramatiques</li> <li>• ANTHE 101 - Introduction à l'anthropologie</li> <li>• <b>PHILE</b> 125 - Raisonnement et pensée critique</li> <li>• DEVDU 201 - Introduction au développement durable</li> <li>• DEVDU 202 - Développement durable mondial et objectifs de développement durable</li> <li>• ETCAN 101 - Introduction à l'étude du Canada</li> <li>• HISTE 121 - Histoire des mondes connectés: 1500-1815</li> <li>• HISTE 122 - Histoire des mondes connectés depuis 1815</li> <li>• PHILE 241 - Introduction à la philosophie occidentale</li> <li>• PHILE 242 - Introduction aux philosophies non occidentales</li> <li>• PSYCE 104 - Procédés psychologiques de base</li> </ul>



<ul style="list-style-type: none"> <li>● SCSOC 120 - Introduction aux études autochtones</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul>	<ul style="list-style-type: none"> <li>● PSYCE 105 - Comportement social et individuel</li> <li>● SC PO 101 - Introduction au gouvernement</li> <li>● SC PO 102 - Introduction à la politique</li> <li>● SCSOC 120 - Introduction aux études autochtones</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul>
---	---

URL in current Calendar (or "New page")  
[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poiid=47979&hl=%22ARTE+125%22&returnto=search](https://calendar.ualberta.ca/preview_program.php?catoid=39&poiid=47979&hl=%22ARTE+125%22&returnto=search)

Current Copy	Proposed Copy
<p><b>Bilingual Bachelor of Commerce [Faculté Saint-Jean]</b></p> <p><b>The program</b>  <b>Foundational year at the Faculté Saint-Jean</b>  <b>Year 1</b></p> <ul style="list-style-type: none"> <li>● 6 units in ANGL ou ENGL</li> <li>● ECONE 101 - Introduction à la micro-économie</li> <li>● ECONE 102 - Introduction à la macro-économie</li> <li>● MATHQ 114 - Calcul élémentaire</li> <li>● STATQ 151 - Introduction à la statistique appliquée I</li> <li>● 6 units in FRANÇ</li> </ul> <p><b>6 units to 12 units from</b></p> <ul style="list-style-type: none"> <li>● ADRAM 101 - Introduction à l'art théâtral</li> <li>● ADRAM 103 - Les procédés dramatiques</li> <li>● ANTHE 101 - Introduction à l'anthropologie</li> <li>● ARTE 125 - Raisonnement et pensée critique</li> <li>● DEVDU 201 - Introduction au développement durable</li> <li>● DEVDU 202 - Développement durable mondial et objectifs de développement durable</li> <li>● ETCAN 101 - Introduction à l'étude du Canada</li> <li>● HISTE 121 - Histoire des mondes connectés: 1500-1815</li> <li>● HISTE 122 - Histoire des mondes connectés depuis 1815</li> <li>● PHILE 241 - Introduction à la philosophie occidentale</li> <li>● PHILE 242 - Introduction aux philosophies non occidentales</li> <li>● PSYCE 104 - Procédés psychologiques de base</li> <li>● PSYCE 105 - Comportement social et individuel</li> <li>● SC PO 101 - Introduction au gouvernement</li> <li>● SC PO 102 - Introduction à la politique</li> <li>● SCSOC 120 - Introduction aux études autochtones</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul>	<p><b>Bilingual Bachelor of Commerce [Faculté Saint-Jean]</b></p> <p><b>The program</b>  <b>Foundational year at the Faculté Saint-Jean</b>  <b>Year 1</b></p> <ul style="list-style-type: none"> <li>● 6 units in ANGL ou ENGL</li> <li>● ECONE 101 - Introduction à la micro-économie</li> <li>● ECONE 102 - Introduction à la macro-économie</li> <li>● MATHQ 114 - Calcul élémentaire</li> <li>● STATQ 151 - Introduction à la statistique appliquée I</li> <li>● 6 units in FRANÇ</li> </ul> <p><b>6 units to 12 units from</b></p> <ul style="list-style-type: none"> <li>● ADRAM 101 - Introduction à l'art théâtral</li> <li>● ADRAM 103 - Les procédés dramatiques</li> <li>● ANTHE 101 - Introduction à l'anthropologie</li> <li>● PHILE 125 - Raisonnement et pensée critique</li> <li>● DEVDU 201 - Introduction au développement durable</li> <li>● DEVDU 202 - Développement durable mondial et objectifs de développement durable</li> <li>● ETCAN 101 - Introduction à l'étude du Canada</li> <li>● HISTE 121 - Histoire des mondes connectés: 1500-1815</li> <li>● HISTE 122 - Histoire des mondes connectés depuis 1815</li> <li>● PHILE 241 - Introduction à la philosophie occidentale</li> <li>● PHILE 242 - Introduction aux philosophies non occidentales</li> <li>● PSYCE 104 - Procédés psychologiques de base</li> <li>● PSYCE 105 - Comportement social et individuel</li> <li>● SC PO 101 - Introduction au gouvernement</li> <li>● SC PO 102 - Introduction à la politique</li> <li>● SCSOC 120 - Introduction aux études autochtones</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul>

## **Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.  
Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
Faculté Saint-Jean Arts & Sciences group: November 3, 2023  
Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
Faculté Saint-Jean Executive Committee: November 16, 2023

## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

FRANC 232 est un cours obligatoire du BSc mais il est aussi proposé en cours à option pour les étudiants du programme BSc Inf (bilingue). On offre chaque année 2 sections de ce cours, l'une réservée aux étudiants du BSc (à l'automne et à l'hiver), et l'autre aux étudiants du programme BSc Inf (à distance, au printemps). L'absence de différenciation entre ces 2 sections engendre une certaine confusion lors des inscriptions dans les cours. Il est donc proposé de créer un cours distinct FRANC 233 pour les étudiants du programme BSc Inf (bilingue), avec son propre chiffre et son propre titre.

FRANC 232 is a required course for BSc students, but also an elective for students in the BScN bilingual program. Each year, CSJ offers two sections of this course, one reserved for BSc students (in the Fall and Winter), and the other for students in the BScN program (distance learning in the Spring). However, the lack of differentiation between these 2 sections leads to confusion when students register for courses. We therefore propose a new course FRANC 233 for the students in the BScN Bilingual Program, with a separate course number and title.

### Course Template

CURRENT	PROPOSED
<p><b>FRANC 232 - Techniques de rédaction</b>            Course Career Undergraduate            Units 3            Approved Hours 0-3L-0            Fee index 6            Faculty Faculté Saint-Jean            Department Saint-Jean            Typically Offered l'un ou l'autre semestre</p> <p><b>Description</b>            Pratique de la rédaction technique, journalistique et de la vulgarisation scientifique. Préalable: FRANC 226.</p>	<p><b>FRANC 232 - Techniques de rédaction scientifique</b>            Course Career Undergraduate            Units 3            Approved Hours 0-3L-0            Fee index 6            Faculty Faculté Saint-Jean            Department Saint-Jean            Typically Offered l'un ou l'autre semestre</p> <p><b>Description</b>            Pratique de la rédaction technique, journalistique et</p>

	de la vulgarisation scientifique. Préalable: FRANC 226. Note : Ce cours n'est pas accessible pour les étudiants ayant ou postulant des crédits en FRANC 233.
<b>NEW</b>	<p><b>FRANC 233 - Techniques de rédaction pour les sciences infirmières</b>  Course Career Undergraduate  Units 3  Approved Hours 0-3L-0  Fee index 6  Faculty Faculté Saint-Jean  Department Saint-Jean  Typically Offered l'un ou l'autre semestre</p> <p><b>Description</b>  Pratique de la rédaction technique, journalistique et de la vulgarisation scientifique pour les sciences infirmières. Préalable: FRANC 224.  Notes: (1) Ce cours est réservé aux étudiants du programme BSclnf (bilingue).  (2) Ce cours n'est pas accessible pour les étudiants ayant ou postulant des crédits en FRANC 232.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.  
Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
Faculté Saint-Jean Arts & Sciences group: September 15, 2023  
Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
Faculté Saint-Jean Executive Committee: November 16, 2023



## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

ANGL 126 est un cours obligatoire pour les étudiants du programme BSc Inf (bilingue). On offre chaque année plusieurs sections de ce cours, dont une réservée aux étudiants du programme BSc Inf. L'absence de différenciation entre la section réservée au BSc Inf et celles ouvertes à tous les étudiants du campus engendre une certaine confusion lors des inscriptions dans les cours. Il est donc proposé de créer un cours distinct ANGL 127 pour les étudiants du programme BSc Inf (bilingue), avec son propre sigle, titre et descriptif.

ANGL 126, a required course for students in the BScInf (bilingual) program, is offered in several sections annually, including a specific section for nursing students. Currently, there is confusion during course registration due to the undifferentiated nature of the section dedicated to BScInf students and those open to all students at CSJ. To address this issue, it is proposed to establish a distinct course ANGL 127 exclusively for BScInf (bilingual) students. This course would have its unique course number, title, and course description, clearly differentiating it from other offerings.

## Course Template

<b>CURRENT</b> Current: <b>Removed language</b>	<b>PROPOSED</b> Proposed: <b>New language</b>
<p><b>ANGL 126 - Exploring Writing Studies</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-3S-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> either term  <b>Description</b>            This workshop course focuses on both the theory and practice of the writing process to help students experience firsthand how university writers enter into rich ongoing conversations by engaging with the words and ideas of others. Prerequisite: English Language Arts 30-1 or ANGL 102 or ALS 125 or equivalent. Note: Not to be taken by students with credits in WRS 101.</p>	<p><b>ANGL 126 - Exploring Writing Studies</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-3S-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> either term  <b>Description</b>            This workshop course focuses on both the theory and practice of the writing process to help students experience firsthand how university writers enter into rich ongoing conversations by engaging with the words and ideas of others. Prerequisite: English Language Arts 30-1 or ANGL 102 or ALS 125 or equivalent. Note: Not to be taken by students with credits in WRS 101 <b>or in ANGL 127.</b></p>
<p><b>NEW</b></p>	<p><b>ANGL 127 - Exploring Writing Studies for Nursing</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-3S-0  <b>Fee index</b> 6  <b>Faculty</b> Faculté Saint-Jean  <b>Department</b> Saint-Jean  <b>Typically Offered</b> either term  <b>Description</b>            This workshop course focuses on developing writing and communication skills by focusing on experiences in nursing, by nurturing foundational academic writing skills, and by guiding students through essential critical thinking skills. Prerequisite: English Language Arts 30-1 or ANGL 102 or ALS 125 or equivalent. Note: Not to be taken by students with credits in WRS 101 or in ANGL 126.</p>

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.  
 Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 The Faculty of Nursing has been informed of this proposal and supports it (email exchange)  
 Faculté Saint-Jean Arts & Sciences group: November 3, 2023  
 Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
 Faculté Saint-Jean Executive Committee: November 16, 2023



Faculty (& Department or Academic Unit):	Faculté Saint-Jean/Faculty of Nursing
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Une mise à jour de la séquence de cours du programme BSc inf (bilingue) est nécessaire à la suite de la création 2 deux cours :

1. FRANC 233 qui correspond au cours FRANC 232 mais est exclusivement réservé au BScinf (bilingue). FRANC 233 doit remplacer FRANC 232.
2. ANGL 127 qui correspond au cours ANGL 126 mais est exclusivement réservé au BScinf (bilingue). ANGL 127 doit remplacer ANGL 126.

Une note est également ajoutée pour stipuler que SCSOC 222 ne peut être pris qu'après la deuxième année d'étude. Cette note est ajoutée à la demande de la Faculty of Nursing qui constate une augmentation dans le nombre d'étudiantes qui prennent le cours après la 1e année, avant d'avoir fait un stage clinique. Or, ce cours répondant à l'appel à l'action #24 du CVRC, il est préférable qu'elles aient une expérience dans les hôpitaux pour avoir un meilleur sens du fonctionnement et du racisme inhérent dans les structures colonialistes du système de santé.

An update of the BSc inf (bilingual) program course sequence is necessary following the creation of two new courses :

1. FRANC 233, which is the equivalent of course FRANC 232 but is exclusively reserved for BScinf (bilingual) students. FRANC 233 must replace FRANC 232 in the course sequence.
2. ANGL 127, which is the equivalent of course ANGL 126 but is exclusively reserved for BScinf (bilingual) students. ANGL 127 must replace ANGL 126 in the course sequence.

A note has also been added to stipulate that SCSOC 222 can only be taken after the second year of study. This note has been added at the request of the Faculty of Nursing, which has noted an increase in the number of students taking the course after the 1st year, before having done a clinical placement. As this course responds to the CVRC's call to action #24, it is preferable that they have experience in hospitals to get a better sense of how the colonialist structures of the healthcare system operate and the racism inherent in them.

## Calendar Copy

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47967](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47967)

Current Copy	Proposed Copy
<p><b>Baccalauréat ès sciences infirmières (bilingue)</b>  <b>Séquence des cours</b>            À partir de Septembre 2022 (<a href="#">voir Faculty of Nursing - Maintaining Registration</a>)</p> <p><b>Année 1</b>  <b>Automne</b></p> <ul style="list-style-type: none"> <li>● ANATE 140 - Anatomie</li> <li>● FRANC 224 - Maîtrise du français pour les sciences infirmières</li> <li>● MICRE 133 - Microbiologie Médicale pour Infirmières</li> <li>● SC INF 110 - Fondements du succès en soins infirmiers</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul> <p><b>Automne/Hiver</b></p> <ul style="list-style-type: none"> <li>● PHYSE 152 - Physiologie</li> </ul> <p><b>Hiver</b></p> <ul style="list-style-type: none"> <li>● <del>ANGL 126 - Exploring Writing Studies</del></li> <li>● NURS 125 - Nursing Practice - Health Assessment</li> <li>● PSYCE 106 - Principes psychologiques pour les infirmières</li> <li>● STATQ 151 - Introduction à la statistique appliquée</li> </ul> <p><b>Printemps/Été</b></p> <ul style="list-style-type: none"> <li>● <del>FRANC 232 - Techniques de rédaction</del> OU</li> <li>● ANGL (3 crédits) OU</li> <li>● Option libre (3 crédits) (voir Notes 1)</li> </ul> <p><b>Année 2 (voir Notes 2 et 3)</b>  <b>Automne</b></p> <ul style="list-style-type: none"> <li>● SC INF 205 - L'innovation, le leadership, les politiques et les organisations de soins de santé</li> <li>● SC INF 221 - Introduction à la pratique infirmière</li> <li>● SC INF 223 - Les fondations des sciences infirmières I/II</li> </ul> <p><b>Deux trimestres</b></p> <ul style="list-style-type: none"> <li>● NURS 216 - Pathophysiology and Pharmacology II</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● NURS 224 - Foundations of Nursing III</li> <li>● NURS 225 - Introduction to Acute Care Nursing Practice</li> </ul>	<p><b>Baccalauréat ès sciences infirmières (bilingue)</b>  <b>Séquence des cours</b>            À partir de Septembre 2022 (<a href="#">voir Faculty of Nursing - Maintaining Registration</a>)</p> <p><b>Année 1</b>  <b>Automne</b></p> <ul style="list-style-type: none"> <li>● ANATE 140 - Anatomie</li> <li>● FRANC 224 - Maîtrise du français pour les sciences infirmières</li> <li>● MICRE 133 - Microbiologie Médicale pour Infirmières</li> <li>● SC INF 110 - Fondements du succès en soins infirmiers</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul> <p><b>Automne/Hiver</b></p> <ul style="list-style-type: none"> <li>● PHYSE 152 - Physiologie</li> </ul> <p><b>Hiver</b></p> <ul style="list-style-type: none"> <li>● ANGL 127 - Exploring Writing Studies for Nursing</li> <li>● NURS 125 - Nursing Practice - Health Assessment</li> <li>● PSYCE 106 - Principes psychologiques pour les infirmières</li> <li>● STATQ 151 - Introduction à la statistique appliquée</li> </ul> <p><b>Printemps/Été</b></p> <ul style="list-style-type: none"> <li>● FRANC 233 - Techniques de rédaction pour les sciences infirmières OU</li> <li>● ANGL (3 crédits) OU</li> <li>● Option libre (3 crédits) (voir Notes 1)</li> </ul> <p><b>Année 2 (voir Notes 2 et 3)</b>  <b>Automne</b></p> <ul style="list-style-type: none"> <li>● SC INF 205 - L'innovation, le leadership, les politiques et les organisations de soins de santé</li> <li>● SC INF 221 - Introduction à la pratique infirmière</li> <li>● SC INF 223 - Les fondations des sciences infirmières I/II</li> </ul> <p><b>Deux trimestres</b></p> <ul style="list-style-type: none"> <li>● NURS 216 - Pathophysiology and Pharmacology II</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● NURS 224 - Foundations of Nursing III</li> <li>● NURS 225 - Introduction to Acute Care Nursing Practice</li> </ul>



- SC INF 301 - Recherche en sciences infirmières

#### Spring/Summer

- SCSOC 222 - Santé des Autochtones et conceptions du bien-vivre

#### Année 3 (voir Notes 3, 4 et 5)

##### Automne

- NURS 321 - Advanced Acute Care Nursing Practice I
- NURS 323 - Community Nursing through the Lifespan
- SC PO 320 - La politique du système de santé au Canada (voir Note 6)

##### Hiver

- NURS 325 - Advanced Acute Care Nursing Practice II
- NURS 400 - Leadership in Nursing and Interprofessional Practice
  
- NURS 327 - Mental Health and Wellness in Nursing  
**OR**
- SC INF 327 - Santé mentale et bien-être en soins infirmiers (voir Note 7)

#### Année 4 (voir Notes 3, 4 et 8)

##### Automne

- NURS 485 - Nursing Practice in a Focused Area (voir Note 9)

##### Hiver

- INT D 420 - Perspectives on Inclusive and Global Health
- PHILE 386 - La bioéthique (voir Note 6)
- SC INF 425 - Le leadership en sciences infirmières dans un domaine spécifique

#### Notes :

- 
1. La langue d'enseignement des cours optionnels est le français et l'étudiant doit choisir normalement cette option libre parmi les cours offerts en français à la Faculté Saint-Jean.
  2. L'étudiant doit réussir tous les cours de l'année 1 avant de pouvoir s'inscrire dans l'année 2.
  3. La langue d'enseignement des cours avec le sigle SC INF est le français.
  4. La séquence de ces cours peut varier dépendant de la disponibilité des stages cliniques.
  5. L'étudiant doit réussir tous les cours de l'année 2 avant de pouvoir s'inscrire dans l'année 3.

- SC INF 301 - Recherche en sciences infirmières

#### Spring/Summer

- SCSOC 222 - Santé des Autochtones et conceptions du bien-vivre (voir note 10)

#### Année 3 (voir Notes 3, 4 et 5)

##### Automne

- NURS 321 - Advanced Acute Care Nursing Practice I
- NURS 323 - Community Nursing through the Lifespan
- SC PO 320 - La politique du système de santé au Canada (voir Note 6)

##### Hiver

- NURS 325 - Advanced Acute Care Nursing Practice II
- NURS 400 - Leadership in Nursing and Interprofessional Practice
  
- NURS 327 - Mental Health and Wellness in Nursing  
**OR**
- SC INF 327 - Santé mentale et bien-être en soins infirmiers (voir Note 7)

#### Année 4 (voir Notes 3, 4 et 8)

##### Automne

- NURS 485 - Nursing Practice in a Focused Area (voir Note 9)

##### Hiver

- INT D 420 - Perspectives on Inclusive and Global Health
- PHILE 386 - La bioéthique (voir Note 6)
- SC INF 425 - Le leadership en sciences infirmières dans un domaine spécifique

#### Notes :

- 
1. La langue d'enseignement des cours optionnels est le français et l'étudiant doit choisir normalement cette option libre parmi les cours offerts en français à la Faculté Saint-Jean.
  2. L'étudiant doit réussir tous les cours de l'année 1 avant de pouvoir s'inscrire dans l'année 2.
  3. La langue d'enseignement des cours avec le sigle SC INF est le français.
  4. La séquence de ces cours peut varier dépendant de la disponibilité des stages cliniques.
  5. L'étudiant doit réussir tous les cours de l'année 2 avant de pouvoir s'inscrire dans l'année 3.

<p>6. La Faculty of Nursing déterminera quel cours les étudiants prendront.</p> <p>7. Dans la mesure du possible, ce cours sera offert par la Faculty of Nursing en français. Quand il est offert en français, les étudiants inscrits dans le programme bilingue en sciences infirmières doivent suivre le cours en français.</p> <p>8. L'étudiant doit réussir tous les cours de l'année 2 et 3 avant de pouvoir s'inscrire dans l'année 4.</p> <p>9. Dépendant de la performance académique et clinique et la disponibilité des stages, l'étudiant peut choisir de compléter le stage pratique avancé dans un milieu bilingue ou francophone à l'extérieur d'Edmonton.</p>	<p>6. La Faculty of Nursing déterminera quel cours les étudiants prendront.</p> <p>7. Dans la mesure du possible, ce cours sera offert par la Faculty of Nursing en français. Quand il est offert en français, les étudiants inscrits dans le programme bilingue en sciences infirmières doivent suivre le cours en français.</p> <p>8. L'étudiant doit réussir tous les cours de l'année 2 et 3 avant de pouvoir s'inscrire dans l'année 4.</p> <p>9. Dépendant de la performance académique et clinique et la disponibilité des stages, l'étudiant peut choisir de compléter le stage pratique avancé dans un milieu bilingue ou francophone à l'extérieur d'Edmonton.</p> <p>10. SCSOC 222 doit être complété après l'année 2.</p>
--	---

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12292#language-test">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12292#language-test</a></p>	
<b>Current Copy</b>	<b>Proposed Copy</b>
<p><b>Bachelor of Science in Nursing (Bilingual) [Faculté Saint-Jean]</b>  <b>Course sequence</b>  As of September 2022 (<a href="#">see Faculty of Nursing - Maintaining Registration</a>)</p> <p><b>Year 1</b>  <b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● ANATE 140 - Anatomie</li> <li>● FRANC 224 - Maîtrise du français pour les sciences infirmières</li> <li>● MICRE 133 - Microbiologie Médicale pour Infirmières</li> <li>● SC INF 110 - Fondements du succès en soins infirmiers</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul> <p><b>Fall/Winter</b></p> <ul style="list-style-type: none"> <li>● PHYSE 152 - Physiologie</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● <del>ANGL 126 - Exploring Writing Studies</del></li> <li>● NURS 125 - Nursing Practice - Health Assessment</li> <li>● PSYCE 106 - Principes psychologiques pour les infirmières</li> <li>● STATQ 151 - Introduction à la statistique appliquée</li> </ul> <p><b>Spring/Summer</b></p> <ul style="list-style-type: none"> <li>● <del>FRANC 232 - Techniques de rédaction</del> OR</li> <li>● ANGL (3 units) OR</li> <li>● Elective (3 units) (see Note 1)</li> </ul>	<p><b>Bachelor of Science in Nursing (Bilingual) [Faculté Saint-Jean]</b>  <b>Course sequence</b>  As of September 2022 (<a href="#">see Faculty of Nursing - Maintaining Registration</a>)</p> <p><b>Year 1</b>  <b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● ANATE 140 - Anatomie</li> <li>● FRANC 224 - Maîtrise du français pour les sciences infirmières</li> <li>● MICRE 133 - Microbiologie Médicale pour Infirmières</li> <li>● SC INF 110 - Fondements du succès en soins infirmiers</li> <li>● SOCIE 100 - Introduction à la sociologie</li> </ul> <p><b>Fall/Winter</b></p> <ul style="list-style-type: none"> <li>● PHYSE 152 - Physiologie</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● ANGL 127 - Exploring Writing Studies For Nursing</li> <li>● NURS 125 - Nursing Practice - Health Assessment</li> <li>● PSYCE 106 - Principes psychologiques pour les infirmières</li> <li>● STATQ 151 - Introduction à la statistique appliquée</li> </ul> <p><b>Spring/Summer</b></p> <ul style="list-style-type: none"> <li>● FRANC 233 - Techniques de rédaction pour les sciences infirmières OR</li> <li>● ANGL (3 units) OR</li> <li>● Elective (3 units) (see Note 1)</li> </ul>

<p><b>Year 2 (see Notes 2 and 3)</b></p> <p><b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● SC INF 205 - L'innovation, le leadership, les politiques et les organisations de soins de santé</li> <li>● SC INF 221 - Introduction à la pratique infirmière</li> <li>● SC INF 223 - Les fondations des sciences infirmières I/II</li> </ul> <p><b>Two Term</b></p> <ul style="list-style-type: none"> <li>● NURS 216 - Pathophysiology and Pharmacology II</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● NURS 224 - Foundations of Nursing III</li> <li>● NURS 225 - Introduction to Acute Care Nursing Practice</li> <li>● SC INF 301 - Recherche en sciences infirmières</li> </ul> <p><b>Spring/Summer</b></p> <ul style="list-style-type: none"> <li>● SCSOC 222 - Santé des Autochtones et conceptions du bien-vivre</li> </ul> <p><b>Year 3 (see Notes 3, 4 and 5)</b></p> <p><b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● NURS 321 - Advanced Acute Care Nursing Practice I</li> <li>● NURS 323 - Community Nursing through the Lifespan</li> <li>● SC PO 320 - La politique du système de santé au Canada (see Note 6)</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● NURS 325 - Advanced Acute Care Nursing Practice II</li> <li>● NURS 327 - Mental Health and Wellness in Nursing (see Note 7) <b>OR</b></li> <li>● SC INF 327 - Santé mentale et bien-être en soins infirmiers</li> <li>● NURS 400 - Leadership in Nursing and Interprofessional Practice</li> </ul> <p><b>Year 4 (see Notes 3, 4 and 8)</b></p> <p><b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● NURS 485 - Nursing Practice in a Focused Area (see Note 9)</li> <li>● Winter Term</li> <li>● INT D 420 - Perspectives on Inclusive and Global Health</li> <li>● PHILE 386 - La bioéthique (see Note 6)</li> <li>● SC INF 425 - Le leadership en sciences infirmières dans un domaine spécifique</li> </ul> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. The language of instruction of all electives must be French and electives are normally taken at Faculté Saint-Jean.</li> <li>2. To proceed to Year 2 students must have passed all Year 1 courses.</li> </ol>	<p><b>Year 2 (see Notes 2 and 3)</b></p> <p><b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● SC INF 205 - L'innovation, le leadership, les politiques et les organisations de soins de santé</li> <li>● SC INF 221 - Introduction à la pratique infirmière</li> <li>● SC INF 223 - Les fondations des sciences infirmières I/II</li> </ul> <p><b>Two Term</b></p> <ul style="list-style-type: none"> <li>● NURS 216 - Pathophysiology and Pharmacology II</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● NURS 224 - Foundations of Nursing III</li> <li>● NURS 225 - Introduction to Acute Care Nursing Practice</li> <li>● SC INF 301 - Recherche en sciences infirmières</li> </ul> <p><b>Spring/Summer</b></p> <ul style="list-style-type: none"> <li>● SCSOC 222 - Santé des Autochtones et conceptions du bien-vivre (voir note 10)</li> </ul> <p><b>Year 3 (see Notes 3, 4 and 5)</b></p> <p><b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● NURS 321 - Advanced Acute Care Nursing Practice I</li> <li>● NURS 323 - Community Nursing through the Lifespan</li> <li>● SC PO 320 - La politique du système de santé au Canada (see Note 6)</li> </ul> <p><b>Winter Term</b></p> <ul style="list-style-type: none"> <li>● NURS 325 - Advanced Acute Care Nursing Practice II</li> <li>● NURS 327 - Mental Health and Wellness in Nursing (see Note 7) <b>OR</b></li> <li>● SC INF 327 - Santé mentale et bien-être en soins infirmiers</li> <li>● NURS 400 - Leadership in Nursing and Interprofessional Practice</li> </ul> <p><b>Year 4 (see Notes 3, 4 and 8)</b></p> <p><b>Fall Term</b></p> <ul style="list-style-type: none"> <li>● NURS 485 - Nursing Practice in a Focused Area (see Note 9)</li> <li>● Winter Term</li> <li>● INT D 420 - Perspectives on Inclusive and Global Health</li> <li>● PHILE 386 - La bioéthique (see Note 6)</li> <li>● SC INF 425 - Le leadership en sciences infirmières dans un domaine spécifique</li> </ul> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. The language of instruction of all electives must be French and electives are normally taken at Faculté Saint-Jean.</li> <li>2. To proceed to Year 2 students must have passed all Year 1 courses.</li> </ol>
---	--

<ol style="list-style-type: none"> <li>3. "SC INF" denotes nursing courses where French is the primary language of instruction.</li> <li>4. Courses may be configured differently depending on clinical placement availability.</li> <li>5. To proceed to Year 3 students must have passed all Year 2 courses.</li> <li>6. The Faculty of Nursing will determine which course students will take.</li> <li>7. The Faculty of Nursing will offer this course in French whenever possible. When offered, students in the Bilingual Nursing Program must take this course in French.</li> <li>8. To proceed to Year 4, students must have passed all Year 2 and 3 courses</li> <li>9. Based on academic and clinical performance, and on availability of placements, students may elect to complete the senior practicum in a bilingual or francophone milieu outside of Edmonton.</li> </ol>	<ol style="list-style-type: none"> <li>3. "SC INF" denotes nursing courses where French is the primary language of instruction.</li> <li>4. Courses may be configured differently depending on clinical placement availability.</li> <li>5. To proceed to Year 3 students must have passed all Year 2 courses.</li> <li>6. The Faculty of Nursing will determine which course students will take.</li> <li>7. The Faculty of Nursing will offer this course in French whenever possible. When offered, students in the Bilingual Nursing Program must take this course in French.</li> <li>8. To proceed to Year 4, students must have passed all Year 2 and 3 courses</li> <li>9. Based on academic and clinical performance, and on availability of placements, students may elect to complete the senior practicum in a bilingual or francophone milieu outside of Edmonton.</li> <li>10. SCSOC 222 must be completed after Year 2.</li> </ol>
--	---

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date.  
 Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 The Faculty of Nursing has been informed of this proposal and supports it (emails exchanges)  
 Faculté Saint-Jean Arts & Sciences group: September 15, 2023  
 Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
 Faculté Saint-Jean Executive Committee: November 16, 2023



**Calendar Change Request Form  
for Program and Regulation Changes**

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculté Saint-Jean
Contact Person:	Hassan Safouhi (Vice-Dean - hsafouhi@ualberta.ca)
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	

**Rationale**

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Le test de placement a été mis à jour en octobre 2022 et des nouveaux seuils de placement ont été établis par l'équipe de français. L'ajustement des seuils permet notamment d'augmenter le niveau à l'entrée et d'inciter plus d'étudiants à renforcer les compétences de base enseignées dans les cours FRANÇ 116-117 et FRANÇ 216 (plutôt que de s'inscrire directement dans FRANÇ 226). Ces nouveaux seuils s'appliquent automatiquement lors de l'annonce des résultats au test de placement de français des nouveaux inscrits depuis mai 2023. Or, les seuils mentionnés dans l'annuaire correspondent toujours à l'ancien test, devenu obsolète. La proposition vise donc à mettre à jour l'annuaire pour qu'il indique les seuils de placement liés au nouveau test de placement.

---

The placement test was updated in October 2022, and new placement thresholds were established by the French team. Adjusting the thresholds aims to raise the entry level and encourage more students to reinforce the core competencies taught in FRANÇ 116-117 and FRANÇ 216 (rather than enrolling directly in FRANÇ 226). These new thresholds automatically apply when announcing the results of the French placement test for new enrollees since May 2023. However, the thresholds mentioned in the Calendar still correspond to the old, obsolete test. Therefore, the proposal aims to update the Calendar to reflect the placement thresholds associated with the new placement test.

## Calendar Copy

URL in current Calendar (or "New page")

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12293&hl=%22FRANC+116%22&returnto=search#tests-de-langue>

Current Copy	Proposed Copy
<p><b>Règlements de la Faculté Saint-Jean</b></p> <p>...</p> <p><b>Tests de langue</b></p> <p><b>Test obligatoire de français pour tous les étudiants de la Faculté Saint-Jean</b></p> <p>Un test de placement est administré à tous les nouveaux étudiants inscrits à la Faculté Saint-Jean. Ce test permet d'évaluer le niveau de compétence en français de façon à préciser le placement dans les cours de français langue. Aucune préparation n'est nécessaire. L'évaluation initiale se fait en ligne avant l'inscription aux cours de français. Les résultats à ce test déterminent les cours de français auxquels l'étudiant doit s'inscrire. Des directives précises sont envoyées aux étudiants au moment de leur admission.</p> <p><b>Placement des étudiants par évaluation initiale :</b></p> <p>Les étudiants obtenant une note inférieure ou égale à <b>50%</b> doivent s'inscrire aux cours FRANC 116.</p> <p>Les étudiants obtenant une note entre <b>51% et 65%</b> inclusivement doivent s'inscrire au cours FRANC 117.</p> <p>Les étudiants obtenant une note entre <b>66% et 75%</b> inclusivement doivent s'inscrire au cours FRANC 216.</p> <p>Les étudiants obtenant une note entre <b>76% et 94%</b> inclusivement doivent s'inscrire au cours FRANC 226.</p> <p>Les étudiants obtenant une note supérieure ou égale à <b>95%</b> sont exemptés des cours de français de base et peuvent s'inscrire aux cours FRANC <del>ou</del> LINGQ (niveaux 200 ou 300) de leur choix.</p>	<p><b>Règlements de la Faculté Saint-Jean</b></p> <p>...</p> <p><b>Tests de langue</b></p> <p><b>Test obligatoire de français pour tous les étudiants de la Faculté Saint-Jean</b></p> <p>Un test de placement est administré à tous les nouveaux étudiants inscrits à la Faculté Saint-Jean. Ce test permet d'évaluer le niveau de compétence en français de façon à préciser le placement dans les cours de français langue. Aucune préparation n'est nécessaire. L'évaluation initiale se fait en ligne avant l'inscription aux cours de français. Les résultats à ce test déterminent les cours de français auxquels l'étudiant doit s'inscrire. Des directives précises sont envoyées aux étudiants au moment de leur admission.</p> <p><b>Placement des étudiants par évaluation initiale :</b></p> <p>Les étudiants obtenant une note inférieure ou égale à <b>60%</b> doivent s'inscrire aux cours FRANC 116.</p> <p>Les étudiants obtenant une note entre <b>60% et 75%</b> inclusivement doivent s'inscrire au cours FRANC 117.</p> <p>Les étudiants obtenant une note entre <b>75% et 90%</b> inclusivement doivent s'inscrire au cours FRANC 216.</p> <p>Les étudiants obtenant une note entre <b>90% et 97%</b> inclusivement doivent s'inscrire au cours FRANC 226.</p> <p>Les étudiants obtenant une note supérieure ou égale à <b>97%</b> sont exemptés des cours de français de base et peuvent s'inscrire aux cours FRANC, LINGQ <b>ou</b> LITT (niveaux 200 ou 300) de leur choix.</p>

URL in current Calendar (or "New page")  
<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12292#language-test>

Current Copy	Proposed Copy
<p><b>Faculté Saint-Jean Regulations (English)</b>            ...  <b>Language test</b>  <b>French Compulsory Test for All Faculté Saint-Jean Students</b>            A placement test is administered to all new students registered in the Faculté Saint-Jean. The students' competence is tested in order to facilitate their placement in French language courses. No preparation is required. Initial assessment is done online prior to enrollment in French courses. The results of this test determine the French course(s) in which the student must register. Detailed instructions are sent to students upon admission.</p> <p><b>Placement of students by initial assessment :</b></p> <p>Students with a mark inferior or equal to <b>50%</b> must register in FRANC 116.            Students with a mark between <b>51% and 65%</b> inclusively must register in FRANC 117.            Students with a mark between <b>66% and 75%</b> inclusively must register in FRANC 216.            Students with a mark between <b>76% and 94%</b> inclusively must register in FRANC 226.            Students with a mark superior or equal to <b>95%</b> are exempt from basic French language courses and can register in FRANC <b>or</b> LINGQ courses (200 or 300 level) of their choice.</p>	<p><b>Faculté Saint-Jean Regulations (English)</b>            ...  <b>Language test</b>  <b>French Compulsory Test for All Faculté Saint-Jean Students</b>            A placement test is administered to all new students registered in the Faculté Saint-Jean. The students' competence is tested in order to facilitate their placement in French language courses. No preparation is required. Initial assessment is done online prior to enrollment in French courses. The results of this test determine the French course(s) in which the student must register. Detailed instructions are sent to students upon admission.</p> <p><b>Placement of students by initial assessment :</b></p> <p>Students with a mark inferior or equal to <b>60%</b> must register in FRANC 116.            Students with a mark between <b>60% and 75%</b> inclusively must register in FRANC 117.            Students with a mark between <b>75% and 90%</b> inclusively must register in FRANC 216.            Students with a mark between <b>90% and 97%</b> inclusively must register in FRANC 226.            Students with a mark superior or equal to <b>97%</b> are exempt from basic French language courses and can register in FRANC, LINGQ <b>or</b> LITT courses (200 or 300 level) of their choice.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.  
 Faculté Saint-Jean Council : November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 Faculté Saint-Jean Arts & Sciences group: September 15, 2023  
 Faculté Saint-Jean Academic Planning Committee: November 9, 2023  
 Faculté Saint-Jean Executive Committee: November 16, 2023



Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	Lucy De Fabrizio ( <a href="mailto:imd@ualberta.ca">imd@ualberta.ca</a> or <a href="mailto:gccd@ualberta.ca">gccd@ualberta.ca</a> ); <a href="#">Jennifer Branch-Mueller</a>
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Faculty of Education has reviewed the Certificate in Global Citizenship for alignment with the [Undergraduate Embedded Certificate Framework](#) (finalized May 2023) and determined that the Certificate is not compliant with the new framework and that it is not feasible (given faculty resources) to make the necessary changes and ensure that it would be sustainable going forward. We have, therefore, made the difficult decision to suspend and no longer offer the certificate.

Int D 404: Global Citizenship: Contemporary Issues and Perspectives is the only required course for the embedded certificate and normally offered once or twice a year (Winter and Spring). The course has students from a wide range of disciplines and not all are seeking this embedded certificate.

Effective July 1, 2024 there will be no further admissions into the Certificate in Global Citizenship. Students who entered the Certificate in Global Citizenship prior to June 30, 2024 must complete all program requirements by June 30, 2029 to complete all program requirements. The last degree with the Certificate in Global Citizenship will be awarded at Fall Convocation 2029. Students can refer to the Calendar in effect at the time of their admission or readmission for the regulations governing the certificate requirements.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47806&amp;hl=%22certificate+in+global+citizenship%22&amp;returnto=search">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47806&amp;hl=%22certificate+in+global+citizenship%22&amp;returnto=search</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language



**Certificate in Global Citizenship**

For information, contact: [gccd@ualberta.ca](mailto:gccd@ualberta.ca) or visit the Certificate in Global Citizenship website.

**Requirements**

- [INT D 404 – Global Citizenship: Contemporary Issues and Perspectives](#)

**9 units selected from:**

- [ADMI 342 – Introduction au Commerce International](#)
- [ALES 391 – Topics in Agricultural, Life and Environmental Sciences \\*](#)
- [ANTHE 320 – Anthropologie de la religion](#)
- [ANTHR 230 – Anthropology of Science, Technology, and Environment](#)
- [ANTHR 310 – The Anthropology of Gender](#)
- [ANTHR 320 – Anthropology of Religion](#)
- [ANTHR 372 – Anthropology of Food](#)
- [ANTHR 393 – Health and Healing](#)
- [ANTHR 417 – Anthropology of Modernity](#)
- [ARAB 399 – Special Topics](#)
- [AREC 365 – Natural Resource Economics](#)
- [AREC 375 – World Food and Agriculture](#)
- [AREC 485 – Trade and Globalization in Food and Resources](#)
- [B LAW 428 – Natural Resource and Environmental Law](#)
- [BIOL 332 – Community Ecology](#)
- [BIOL 367 – Conservation Biology](#)
- [BIOL 381 – A Planet in Crisis](#)
- [BUEC 342 – Introduction to International Business](#)
- [BUEC 463 – Energy and the Environment: Industry Structure, Performance and Challenges](#)
- [C LIT 101 – World Literature I](#)
- [C LIT 102 – World Literature II](#)
- [C LIT 103 – Approaches to World Literature](#)
- [C LIT 220 – Mythology and Literature](#)
- [C LIT 228 – Literature, Popular Culture, and the Visual Arts](#)
- [C LIT 242 – Science Fiction](#)
- [C LIT 243 – Fairy Tales and Folk Tales](#)

Effective July 1, 2024, there will be no further admission to the Certificate in Global Citizenship in the Faculty of Education. Students who entered this program prior to July 2024 must complete all program requirements by June 30, 2029. The last certificate in this subject area will be granted at Spring Convocation 2030. Continuing students must refer to the Calendar under which they were admitted for program, promotion and graduation requirements.

- [C LIT 266 – Women and World Literature](#)
- [C LIT 347 – Elements of Genre](#)
- [C LIT 352 – Literature and the Other Arts](#)
- [C LIT 358 – Great Themes of Literature and Art](#)
- [C LIT 425 – East/West Critical Theory](#)
- [C LIT 426 – Orientalisms and Occidentalisms](#)
- [C LIT 440 – Comparative Studies in Popular Culture](#)
- [C LIT 460 – Fundamentals of Comparative Literature](#)
- [C LIT 497 – Special Topics in Comparative Literature](#)
- [CHIM 340 – Chimie verte](#)
- [CHRTC 221 – Indigenous Spiritual Traditions and Christianity](#)
- [CHRTC 339 – International Service Learning](#)
- [CHRTC 347 – World War II and Christians](#)
- [CHRTC 349 – Social Justice and Christianity](#)
- [CHRTC 350 – Science and Religion](#)
- [CHRTC 361 – Death, Dying and Culture](#)
- [CHRTC 372 – The Theology and Spirituality of Eastern Christianity](#)
- [CHRTC 396 – Environment and Christianity](#)
- [CLASS 102 – Greek and Roman Mythology](#)
- [CLASS 103 – Introduction to Ancient Greece](#)
- [CLASS 104 – Introduction to Ancient Rome](#)
- [CLASS 110 – The Ancient World](#)
- [CLASS 261 – Women, Gender and Sexuality in the Ancient World](#)
- [CLASS 400 – Topics in the Culture and Society of Greco-Roman Antiquity](#)
- [CLASS 475 – Field Techniques in Classical Archaeology](#)
- [CLASS 476 – Advanced Field Techniques in Classical Archaeology](#)
- [CSL 100 – An Introduction to Community Engagement](#)
- [CSL 200 – Theory and Practice in Community Service-Learning](#)
- [CSL 350 – Selected Topics in Community Service-Learning](#)
- [CSL 360 – Community Service-Learning Practicum](#)

- ~~[CSL 480 – Individual Study in Community Service-Learning \\*](#)~~
- ~~[D HYG 440 – Advocacy for Change in Healthcare](#)~~
- ~~[DRAMA 203 – Performance Analysis](#)~~
- ~~[DRAMA 302 – Modern Canadian Theatre](#)~~
- ~~[DRAMA 312 – Indigenous Theatre in Canada](#)~~
- ~~[DRAMA 327 – Community-Based Theatre](#)~~
- ~~[DRAMA 427 – Topics in Community Based and Applied Theatre](#)~~
- ~~[EAS 208 – Introduction to Global Change](#)~~
- ~~[EAS 457 – Global Change](#)~~
- ~~[EASIA 101 – Understanding East Asia](#)~~
- ~~[EASIA 205 – Language in Chinese Society](#)~~
- ~~[EASIA 223 – East Asian Religions](#)~~
- ~~[EASIA 236 – Modernity and Contemporary Chinese Civilization](#)~~
- ~~[EASIA 239 – Daoism and Chinese Civilization](#)~~
- ~~[EASIA 240 – Overview of Japanese Culture](#)~~
- ~~[EASIA 316 – Japanese Language and Society](#)~~
- ~~[EASIA 323 – Topics in East Asian Religions](#)~~
- ~~[EASIA 351 – Culture and Identity in Taiwan](#)~~
- ~~[EASIA 423 – Topics in Japanese Religions](#)~~
- ~~[EASIA 425 – Topics in East/West Critical Theory](#)~~
- ~~[EASIA 427 – Colonial and Post-Colonial Culture in East Asia](#)~~
- ~~[EASIA 438 – Topics in Chinese Studies](#)~~
- ~~[EASIA 456 – Languages and Cultures of the Ryukyus](#)~~
- ~~[EASIA 471 – Topics in Korean Studies](#)~~
- ~~[EASIA 472 – Topics in Korean Literary History](#)~~
- ~~[ECON 211 – Chinese Economic Development](#)~~
- ~~[ECON 213 – An Introduction to the Economics of Developing Countries](#)~~
- ~~[ECON 323 – International Economics](#)~~
- ~~[ECON 410 – Pacific Rim Economic Development](#)~~
- ~~[ECON 421 – International Trade](#)~~
- ~~[ECON 422 – International Payments](#)~~
- ~~[ECON 467 – Environmental and Natural Resource Policy](#)~~
- ~~[ECONE 223 – Enjeux économiques mondiaux](#)~~
- ~~[EDFX 425 – Elementary Route: Advanced Field](#)~~

Experience \*

- EDFX 450 – Secondary Route: Advanced Field Experience \*
- EDFX 490 – Additional Placement in an Education Related and/or Outside Alberta Context
- EDPS 422 – International Development Education
- EDPS 425 – Global Education: Issues and Strategies for Teachers
- EDU M 498 – Séminaire citoyenneté globale et justice sociale
- EDU P 333 – École, famille, communauté
- EDU S 350 – Stage interdisciplinaire et volontariat international
- ENCS 473 – Environmental and Conservation Policy
- ENGL 220 – Reading Gender and Sexuality
- ENGL 221 – Reading Class and Ideology
- ENGL 222 – Reading Race and Ethnicity
- ENGL 223 – Reading Empire and the Postcolonial
- ENGL 300 – Social and Cultural History of the English Language
- ENGL 308 – Topics in Indigenous Literature
- ENGL 309 – Indigenous Poetics
- ENGL 312 – African Writing in English
- ENGL 314 – Irish Writing in English
- ENGL 315 – South Asian Writing in English
- ENGL 316 – Middle-Eastern Writing in English
- ENGL 373 – Colonialism and Canadian Literatures
- ENGL 380 – Writing from Here
- ENGL 390
- ENGL 391 – Topics in Women's Writing
- ENGL 392 – Queer and Trans Studies
- ENGL 465 – Studies in Gender and Sexualities
- ENGL 467 – Studies in Race and Ethnicity
- ENGL 481 – Studies in Empire and the Postcolonial
- ENT 101 – Insect-Human Interactions
- FOLK 204 – Forms of Folklore
- FOLK 205 – History of Folklore Studies
- FOREG 473 – Forest Policy
- FREN 315 – Cultural Representations of Food

- [FREN 316](#)
- [FREN 317 – Postcolonial Issues in French and Francophone Societies](#)
- [FREN 318 – Socio-Cultural Aspects of Contemporary Francophone Societies](#)
- [FREN 333 – French Cultural Moments](#)
- [FREN 399 – Special Topics](#)
- [FREN 467 – Women Writing in French](#)
- [FREN 499 – Special Topics](#)
- [GERM 343 – Postwar Cultures](#)
- [GERM 353 – Myths, Tales, and Legends](#)
- [GERM 451 – Genre and Aesthetics](#)
- [GERM 453 – Cultural and Literary Theories](#)
- [GERM 454 – Gender and Sexuality](#)
- [HADVC 301 – Geographies of Art, Design, and Visual Culture](#)
- [HADVC 412 – Topics in Asian Art, Design and Visual Culture](#)
- [HECOL 441 – Textiles and Apparel in the Global Economy](#)
- [HGP 452](#)
- [HIST 104 – The Atomic Age: The World After 1945](#)
- [HIST 111 – The Early Modern World](#)
- [HIST 112 – The Modern World](#)
- [HIST 114 – The History of the World in the Last 10 Years](#)
- [HIST 123 – Plague: Disease and Epidemics in History](#)
- [HIST 127 – Drugs in Modern Global History](#)
- [HIST 128 – War, Revolution, and Society](#)
- [HIST 130 – Democracy, War and Consumer Capitalism: The Making of Modern Europe](#)
- [HIST 135 – Origins of Ancient India: Cities, Migrations and Peoples](#)
- [HIST 179 – Sex Work and Intimate Labour in Global History](#)
- [HIST 195 – Warfare Since 1789: From Mass Armies to Thermonuclear War](#)
- [HIST 205 – Capitalism](#)
- [HIST 206](#)
- [HIST 210 – Europe in the 19th and 20th Centuries](#)
- [HIST 212 – Early Modern Europe](#)

- [HIST 237 - The Pacific World Since 1500](#)
- [HIST 241 - Colonial Latin America](#)
- [HIST 242 - Modern Latin America](#)
- [HIST 246 - Africa from Medieval to Modern Times](#)
- [HIST 247 - Africa in the 20th and 21st Centuries: From Colonial Rule to Modern Nations](#)
- [HIST 250 - American History to 1865](#)
- [HIST 251 - From the End of Slavery to the Present: American History Since 1865](#)
- [HIST 252 - Slavery in the Americas](#)
- [HIST 280 - East Asia to 1500](#)
- [HIST 281 - East Asia from 1500](#)
- [HIST 285 - China and the West](#)
- [HIST 292 - Medieval India from 500 to 1500 CE](#)
- [HIST 293 - History of Science, Technology and Medicine: Key Moments](#)
- [HIST 294 - An Introduction to the History of Sciences, Technology, and Medicine](#)
- [HIST 296 - World War Two](#)
- HIST 306
- [HIST 308 - Sexuality and Gender in Modern Europe](#)
- [HIST 310 - A History of the Habsburg Monarchy, 1526-1918](#)
- HIST 312
- [HIST 313 - Medieval and Early Imperial Russia](#)
- [HIST 318 - Modern Ukraine](#)
- [HIST 320 - Russia from Reform to Revolution, 1800-1917](#)
- [HIST 322 - Russia in the 20th Century](#)
- [HIST 323 - The Middle East in the Making: 1300-1920](#)
- [HIST 339 - The Modern British Empire and the Commonwealth Experience](#)
- HIST 342
- [HIST 352 - African American History from Slavery to Black Power](#)
- [HIST 382 - History of Modern Japan](#)
- [HIST 383 - The Civilization and Culture of Early China](#)
- [HIST 385 - Modern China](#)
- [HIST 387 - History of Indian Yoga and Meditation](#)

- [HIST 390 – Imperial China from circa 600 to 1911](#)
- [HIST 395 – The Early British Empire](#)
- [HIST 405 – Fashion and Material Culture c. 1600-1900](#)
- [HISTE 121 – Histoire des mondes connectés: 1500-1815](#)
- [HISTE 122 – Histoire des mondes connectés depuis 1815](#)
- [HISTE 255](#)
- [HISTE 303](#)
- [HISTE 311 – Histoire de l'Afrique francophone](#)
- [HISTE 390 – Histoire publique et engagement communautaire](#)
- [INT D 303 – Economics of World Food and Agriculture](#)
- [INT D 364](#)
- [INT D 370](#)
- [INT D 375 – Intercultural Exploration of Health and Practice in Italy](#)
- [INT D 393](#)
- [INT D 420 – Perspectives on Inclusive and Global Health](#)
- [INT D 457 – Global Health – China Collaboration](#)
- [ITAL 299 – Special Topics](#)
- [KRLS 104 – Introduction to Sociology of Sport and Leisure in Canadian Society](#)
- [KRLS 440 – Play Around the World Program Preparation \\*](#)
- [KRLS 441 – Play Around the World – Field Placement \\*](#)
- [KRLS 451 – Cultural Studies of Sport and Leisure](#)
- [LA ST 205 – Mexico, Central America and the Caribbean](#)
- [LA ST 210 – South America](#)
- [LA ST 313 – Women in Latin America](#)
- [LA ST 399 – Topics in Latin American Studies](#)
- [LA ST 499 – Special Topics](#)
- [LING 224 – Endangered Languages](#)
- [LITT 230 – Francophonies littéraires hors Canada](#)
- [LITT 335 – Francophonies littéraires et discours identitaires](#)
- [MARK 455 – Sustainability and Responsible](#)

Marketing

- MLCS 210 – Approaches to Cultural Studies
- MLCS 299 – Special Topics
- MLCS 345 – Video Games across Cultures
- MLCS 399 – Special Topics
- MLCS 473 – Cultural Representations, World Media and Ethics
- MLCS 475
- MLCS 499 – Special Topics
- MUSIC 101 – Introduction to Western Art Music
- MUSIC 102 – Introduction to World Music
- MUSIC 103 – Introduction to Popular Music
- MUSIC 143 – Indian Music Ensemble I
- MUSIC 144 – West African Music Ensemble I \*
- MUSIC 148 – Middle Eastern and North African Music Ensemble I
- MUSIC 202 – Studies in World Music
- MUSIC 206
- MUSIC 314 – Music in Canada
- MUSIC 365 – Topics in Ethnomusicology \*
- MUSIC 413 – Studies in the History of Jazz
- MUSIC 443 – Indian Music Ensemble
- MUSIC 444 – West African Music Ensemble \*
- MUSIC 448 – Middle Eastern and North African Music Ensemble
- MUSIC 464 – Topics in Ethnomusicology: Music and Religion
- MUSIC 465 – Area Studies in Ethnomusicology
- MUSIC 466 – Topics in Ethnomusicology
- MUSIC 468 – Area Studies in Ethnomusicology: The Arab World
- MUSIC 469 – Area Studies in Ethnomusicology: Music and Islam
- MUSIC 472 – Area Studies in Ethnomusicology: Africa
- MUSIC 473 – Area Studies in Ethnomusicology: The Persianate World
- MUSIC 482 – Studies in Music and Gender
- MUSIC 489 – Studies in Music and Identity
- MUSIQ 301 – Musique et société
- NS 111 – Contemporary Perspectives in



Indigenous Studies

- NS 300 – Traditional Cultural Foundations I
- NS 355 – Indigenous Knowledge and Oral Traditions
- NS 361 – Race, Stereotypes, and Indigeneity
- NS 405 – Selected Topics in International Indigenous Studies
- NURS 425 – Nursing Leadership in a Focus Area \*
- NURS 485 – Nursing Practice in a Focused Area \*
- NURS 498 – Special Study – Nursing \*
- PHARM 453 – Intercultural Exploration of Pharmacy and Health
- PHIL 202 – Indian Philosophy
- PHIL 203 – Islamic Philosophy
- PHIL 209 – The Human Person: Philosophical Issues
- PHIL 270 – Political Philosophy
- PHIL 339 – Contemporary World Views and Christianity
- PHIL 355 – Environmental Ethics
- PHIL 357 – Philosophy of Religion
- PHIL 366 – Computers and Culture
- PHILE 242 – Introduction aux philosophies non occidentales
- POL S 101 – Introduction to Politics
- POL S 211 – Introduction to History of Political Theory
- POL S 212 – Introduction to Contemporary Political Theory
- POL S 235 – Introduction to Comparative Politics
- POL S 237 – Introduction to Chinese Politics
- POL S 250 – The Politics of Gender
- POL S 261 – International Relations
- POL S 299 – Citizenship for Democracy
- POL S 304 – Modern Political Theory
- POL S 327 – Indigenous Politics in Canada
- POL S 329 – Global Indigenous Politics
- POL S 332 – Introduction to United States Politics and Government
- POL S 333 – Ecology and Politics
- POL S 360 – Politics of International Development

- [POL S 364 – Introduction to International Political Economy](#)
- [POL S 370 – Politics of the European Union](#)
- [POL S 371 – Populism and Democracy in Central Europe](#)
- [POL S 375 – Politics of East Asia](#)
- [POL S 390 – Law and Politics](#)
- [POL S 404 – Topics in Political Theory](#)
- [POL S 417 – Topics in Human Rights](#)
- [POL S 425 – Ethnicity, Immigration and Social Policy](#)
- [POL S 441 – Gender and Public Policy](#)
- [POL S 442 – The Canadian State and Identity Politics](#)
- [POL S 443 – Globalization, Ethnic Politics and the Nation-State](#)
- [POL S 444 – Global Critical Race Theory](#)
- [POL S 445 – Topics in Globalization and Governance](#)
- [POL S 448 – Gender Politics and Mass Media](#)
- [POL S 452](#)
- [POL S 455 – Topics in Gender and Politics](#)
- [POL S 458 – United States Foreign Policy](#)
- [POL S 459 – Topics in International Politics](#)
- [POL S 460 – Global Security](#)
- [POL S 461 – International Relations of the Middle East](#)
- [POL S 468 – International Organization](#)
- [POL S 469 – Ethics in International Relations](#)
- [POL S 477 – Islam, Modernity, and Democracy](#)
- [POL S 479 – NGO Governance and Management](#)
- [POL S 486 – Topics in European Politics](#)
- [POL S 487 – Topics in European Union Politics](#)
- [R SOC 355 – Rural Communities and Global Economies](#)
- [R SOC 365 – Sociology of Environment and Development](#)
- [R SOC 443 – Resilience and Global Change](#)
- [R SOC 450 – Environmental Sociology](#)
- [R SOC 460 – Perspectives on Traditional Knowledge](#)

- [RELIG 205 – Introduction to Judaism](#)
- [RELIG 212 – Introduction to Christianity](#)
- [RELIG 220 – Introduction to Islam](#)
- [RELIG 230 – Introduction to Hinduism](#)
- [RELIG 240 – Introduction to Buddhism](#)
- [RELIG 320 – The Qur'an](#)
- [RELIG 333 – Modern Yoga](#)
- [RELIG 343 – Zen/Chan Buddhism](#)
- [RELIG 345 – Tantric Traditions](#)
- [RELIG 375 – Approaches to the Study of Religion](#)
- [REN R 100 – Forests: Ecology, Use and Society](#)
- [REN R 205 – Wildlife Biodiversity and Ecology](#)
- [REN R 260 – History and Fundamentals of Environmental Protection and Conservation](#)
- [REN R 322 – Forest Ecosystems](#)
- [REN R 333 – Wetland Sciences and Management](#)
- [REN R 360 – Soil and Water Conservation](#)
- [REN R 364 – Principles of Managing Natural Diversity](#)
- [REN R 365 – Ecology of Northern Landscapes](#)
- [REN R 376 – Fisheries and Wildlife Management](#)
- [REN R 427 – Science Policy and Canada's North](#)
- [REN R 440 – Disturbance Ecology Fundamentals](#)
- [REN R 446 – Climates and Ecosystems](#)
- [REN R 450 – Environmentally Sustainable Agriculture](#)
- [REN R 452 – Forest Watershed Management](#)
- [REN R 462 – Parks, Ecology, and Society](#)
- [REN R 464 – Conservation and Management of Endangered Species](#)
- [REN R 466 – Climate Change and the North](#)
- [REN R 468 – Conservation of Genetic Resources](#)
- [REN R 469 – Biodiversity Analysis](#)
- [REN R 473 – Northern Resource Management](#)
- [REN R 474 – Utilization of Wildlife Resources](#)
- [RLS 100 – Life, Leisure, and the Pursuit of Happiness](#)
- [RLS 130 – Collaborative Skills and Processes for Community Recreation and Leisure](#)
- [RLS 223 – Leisure and Human Behavior](#)

- [RLS 263 – Principles of Tourism](#)
- [RLS 463 – Issues in Tourism Development](#)
- [RLS 465 – Natural Area Tourism](#)
- [SC PO 101 – Introduction au gouvernement](#)
- [SC PO 261](#)
- [SC PO 262](#)
- [SCAND 213 – Scandinavian Life and Civilization I: History, Culture, and Society](#)
- [SCAND 214 – Scandinavian Life and Civilization II: Literature, Film, and Music](#)
- [SCAND 326 – Scandinavian Children’s Literature](#)
- [SCAND 343 – Scandinavia Through Folklore](#)
- [SCAND 356 – Women in Scandinavian Literature and Popular Culture](#)
- [SCAND 399 – Special Topics](#)
- [SCSOC 301 – Musique et société](#)
- [SCSOC 311](#)
- [SEM 417 – Managing the Work Force: International Perspectives](#)
- [SEM 435 – Managing International Enterprises](#)
- [SLAV 222 – Euromaidan: Origins and Aftermath of the Ukrainian Revolution](#)
- [SLAV 299 – Special Topics](#)
- [SLAV 320 – Ukrainian Canadian Culture](#)
- [SLAV 399 – Special Topics](#)
- [SLAV 475 – Slavic Languages and Cultures in the Community](#)
- [SLAV 499 – Special Topics](#)
- [SOC 269 – Introductory Sociology of Globalization](#)
- [SOC 291 – Introduction to Environmental Sociology](#)
- [SOC 302 – Topics in Sociology \\*](#)
- [SOC 343 – Social Movements](#)
- [SOC 369 – Sociology of Globalization](#)
- [SOC 370 – Racism and Decolonization](#)
- [SOC 402 – Topics in Sociology \\*](#)
- [SOC 425 – Sociology of Terrorism](#)
- [SOC 496 – Human Rights in International Perspective](#)
- [SOCIE 260 – Inégalité et stratification sociales](#)
- [SOCIE 348 – Sociologie des média et de](#)

Information

- SOCIE 369
- SOCIE 412 – Sociologie du développement
- SPAN 320 – Introduction to Literary Analysis
- SPAN 321 – Foundational Fictions of Spanish America
- SPAN 323 – Latin American Literature and the Environment
- SPAN 325 – Introduction to Cinema
- SPAN 333 – Reading Popular Culture
- SPAN 341 – The ‘Roaring Twenties’ in Transatlantic Perspective
- SPAN 373 – Spanish as a World Language
- SPAN 399 – Special Topics in Literature/Culture
- SPAN 405 – Exercises in Translation: Spanish into English
- SPAN 406 – Exercises in Translation: English into Spanish
- SPAN 425 – Hispanic Filmmakers
- SPAN 441 – Reading Colonial Culture
- SPAN 475 – Spanish in Society
- SPAN 499 – Special Topics in Literature/Culture
- SUST 201 – Introduction to Sustainability
- SUST 202 – Global Sustainable Development and the Sustainable Development Goals
- WGS 102 – Gender and Social Justice
- WGS 244 – Critical Disability Studies
- WGS 260 – Women and War
- WGS 310
- WGS 360 – Race, Class, and Gender
- WGS 390 – Environmental Feminisms and Social Justice

**Notes**

1. Maximum of 3 units from any given course can be used for the certificate.
2. No more than 3 of the 12 units may be transfer credits from other postsecondary institutions.
3. Students must meet the necessary prerequisites, co-requisites, and/or restrictions for courses used to satisfy the 9 units set out in 9 units selected from.
4. \* Course/Section Clarifications:
  - ALES 391 is applicable only for sections that are a part of the Field Course in Agriculture and Food

<p>Production (Alberta/Hiroshima Exchange Program).</p> <ul style="list-style-type: none"> <li>• <a href="#">CSL 480</a> is applicable under the following conditions: For students in the Faculty of Pharmacy and Pharmaceutical Sciences, please ensure you are registered in the appropriate section for your Faculty, as approved by the Faculty's Associate Dean (Undergraduate Programs). For students outside of the Faculty of Pharmacy and Pharmaceutical Sciences, please obtain information on the eligibility of other sections from Community Service Learning, University of Alberta at <a href="mailto:cslinfo@ualberta.ca">cslinfo@ualberta.ca</a>.</li> <li>• <a href="#">EDFX 425</a> and <a href="#">EDFX 450</a>, are applicable only for international sections.</li> <li>• <a href="#">KRLS 440/KRLS 441</a> or equivalent, as verified in writing by the Play Around the World Program Director, will be applicable.</li> <li>• MEAS 300, <a href="#">MUSIC 144</a>, <a href="#">MUSIC 444</a> and <a href="#">MUSIC 365</a> are applicable only for sections that are part of the Education Abroad Program in Ghana.</li> <li>• <a href="#">NURS 425</a>, <a href="#">NURS 485</a> and <a href="#">NURS 498</a> are applicable only for sections with the variable title: International.</li> <li>• <a href="#">SOC 302</a> is applicable only for sections with the variable title: Anti-Racism and Racial Injustice.</li> <li>• <a href="#">SOC 402</a> is applicable only for sections with the variable titles: The Commons and Climate Justice, Indigenous Settler Relations, Migration &amp; Public Policy, or Gender, Race &amp; Culture.</li> </ul>	
---	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date: Faculty of Education, Undergraduate Academic Affairs Council (UAAC) Approved - November 23, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p>

Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	Lucy De Fabrizio ( <a href="mailto:imd@ualberta.ca">imd@ualberta.ca</a> or <a href="mailto:gccd@ualberta.ca">gccd@ualberta.ca</a> ); Jennifer Branch-Mueller
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Faculty of Education has reviewed the Certificate in Global Citizenship for alignment with the [Undergraduate Embedded Certificate Framework](#) (finalized May 2023) and determined that the Certificate is not compliant with the new framework and that it is not feasible (given faculty resources) to make the necessary changes and ensure that it would be sustainable going forward. We have, therefore, made the difficult decision to no longer offer the certificate.

Int D 404:Global Citizenship: Contemporary Issues and Perspectives is the only required course for the embedded certificate and normally offered once or twice a year (Winter and Spring). The course has students from a wide range of disciplines and not all are seeking this embedded certificate. All students registering in INT D 404 will be notified that the last Convocation date for graduating with the Certificate will be June 2025 and students must apply for the Embedded Certificate no later than January 2025 and be eligible for their Bachelors Degree to be awarded at June 2025 Convocation.

### Calendar Copy

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poiid=47806&hl=%22certificate+in+global+citizenship%22&returnto=search](https://calendar.ualberta.ca/preview_program.php?catoid=39&poiid=47806&hl=%22certificate+in+global+citizenship%22&returnto=search)

**Current Copy:** ~~Removed language~~

**Proposed Copy:** New language

<p><del>Certificate in Global Citizenship</del></p> <p>For information, contact: <a href="mailto:geed@ualberta.ca">geed@ualberta.ca</a> or visit the <a href="#">Certificate in Global Citizenship website</a>.</p>	<p>Delete</p>
---	---------------



**Requirements**

- INT D 404 - Global Citizenship: Contemporary Issues and Perspectives

**9 units selected from:**

- ADMI 342 - Introduction au Commerce International
- ALES 391 - Topics in Agricultural, Life and Environmental Sciences \*
- ANTHE 320 - Anthropologie de la religion
- ANTHR 230 - Anthropology of Science, Technology, and Environment
- ANTHR 310 - The Anthropology of Gender
- ANTHR 320 - Anthropology of Religion
- ANTHR 372 - Anthropology of Food
- ANTHR 393 - Health and Healing
- ANTHR 417 - Anthropology of Modernity
- ARAB 399 - Special Topics
- AREC 365 - Natural Resource Economics
- AREC 375 - World Food and Agriculture
- AREC 485 - Trade and Globalization in Food and Resources
- B-LAW 428 - Natural Resource and Environmental Law
- BIOL 332 - Community Ecology
- BIOL 367 - Conservation Biology
- BIOL 381 - A Planet in Crisis
- BUEC 342 - Introduction to International Business
- BUEC 463 - Energy and the Environment: Industry Structure, Performance and Challenges
- C-LIT 101 - World Literature I
- C-LIT 102 - World Literature II
- C-LIT 103 - Approaches to World Literature
- C-LIT 220 - Mythology and Literature
- C-LIT 228 - Literature, Popular Culture, and the Visual Arts
- C-LIT 242 - Science Fiction
- C-LIT 243 - Fairy Tales and Folk Tales
- C-LIT 266 - Women and World Literature
- C-LIT 347 - Elements of Genre
- C-LIT 352 - Literature and the Other Arts

- C LIT 358 - Great Themes of Literature and Art
- C LIT 425 - East/West Critical Theory
- C LIT 426 - Orientalisms and Occidentalisms
- C LIT 440 - Comparative Studies in Popular Culture
- C LIT 460 - Fundamentals of Comparative Literature
- C LIT 497 - Special Topics in Comparative Literature
- CHIM 340 - Chimie verte
- CHRTC 221 - Indigenous Spiritual Traditions and Christianity
- CHRTC 339 - International Service Learning
- CHRTC 347 - World War II and Christians
- CHRTC 349 - Social Justice and Christianity
- CHRTC 350 - Science and Religion
- CHRTC 361 - Death, Dying and Culture
- CHRTC 372 - The Theology and Spirituality of Eastern Christianity
- CHRTC 396 - Environment and Christianity
- CLASS 102 - Greek and Roman Mythology
- CLASS 103 - Introduction to Ancient Greece
- CLASS 104 - Introduction to Ancient Rome
- CLASS 110 - The Ancient World
- CLASS 261 - Women, Gender and Sexuality in the Ancient World
- CLASS 400 - Topics in the Culture and Society of Greco-Roman Antiquity
- CLASS 475 - Field Techniques in Classical Archaeology
- CLASS 476 - Advanced Field Techniques in Classical Archaeology
- CSL 100 - An Introduction to Community Engagement
- CSL 200 - Theory and Practice in Community Service Learning
- CSL 350 - Selected Topics in Community Service Learning
- CSL 360 - Community Service Learning Practicum
- CSL 480 - Individual Study in Community Service Learning\*
- D HYG 440 - Advocacy for Change in Healthcare
- DRAMA 203 - Performance Analysis
- DRAMA 302 - Modern Canadian Theatre
- DRAMA 312 - Indigenous Theatre in Canada
- DRAMA 327 - Community-Based Theatre
- DRAMA 427 - Topics in Community Based and Applied Theatre
- EAS 208 - Introduction to Global Change

- EAS 457 - Global Change
- EASIA 101 - Understanding East Asia
- EASIA 205 - Language in Chinese Society
- EASIA 223 - East Asian Religions
- EASIA 236 - Modernity and Contemporary Chinese Civilization
- EASIA 239 - Daoism and Chinese Civilization
- EASIA 240 - Overview of Japanese Culture
- EASIA 316 - Japanese Language and Society
- EASIA 323 - Topics in East Asian Religions
- EASIA 351 - Culture and Identity in Taiwan
- EASIA 423 - Topics in Japanese Religions
- EASIA 425 - Topics in East/West Critical Theory
- EASIA 427 - Colonial and Post-Colonial Culture in East Asia
- EASIA 438 - Topics in Chinese Studies
- EASIA 456 - Languages and Cultures of the Ryukyus
- EASIA 471 - Topics in Korean Studies
- EASIA 472 - Topics in Korean Literary History
- ECON 211 - Chinese Economic Development
- ECON 213 - An Introduction to the Economies of Developing Countries
- ECON 323 - International Economies
- ECON 410 - Pacific Rim Economic Development
- ECON 421 - International Trade
- ECON 422 - International Payments
- ECON 467 - Environmental and Natural Resource Policy
- ECONE 223 - Enjeux économiques mondiaux
- EDFX 425 - Elementary Route: Advanced Field Experience \*
- EDFX 450 - Secondary Route: Advanced Field Experience \*
- EDFX 490 - Additional Placement in an Education Related and/or Outside Alberta Context
- EDPS 422 - International Development Education
- EDPS 425 - Global Education: Issues and Strategies for Teachers
- EDU M 498 - Séminaire citoyenneté globale et justice sociale
- EDU P 333 - École, famille, communauté
- EDU S 350 - Stage interdisciplinaire et volontariat international
- ENCS 473 - Environmental and Conservation Policy
- ENGL 220 - Reading Gender and Sexuality

- ENGL 221 – Reading Class and Ideology
- ENGL 222 – Reading Race and Ethnicity
- ENGL 223 – Reading Empire and the Postcolonial
- ENGL 300 – Social and Cultural History of the English Language
- ENGL 308 – Topics in Indigenous Literature
- ENGL 309 – Indigenous Poetics
- ENGL 312 – African Writing in English
- ENGL 314 – Irish Writing in English
- ENGL 315 – South Asian Writing in English
- ENGL 316 – Middle Eastern Writing in English
- ENGL 373 – Colonialism and Canadian Literatures
- ENGL 380 – Writing from Here
- ENGL 390
- ENGL 391 – Topics in Women’s Writing
- ENGL 392 – Queer and Trans Studies
- ENGL 465 – Studies in Gender and Sexualities
- ENGL 467 – Studies in Race and Ethnicity
- ENGL 481 – Studies in Empire and the Postcolonial
- ENT 101 – Insect-Human Interactions
- FOLK 204 – Forms of Folklore
- FOLK 205 – History of Folklore Studies
- FOREC 473 – Forest Policy
- FREN 315 – Cultural Representations of Food
- FREN 316
- FREN 317 – Postcolonial Issues in French and Francophone Societies
- FREN 318 – Socio-Cultural Aspects of Contemporary Francophone Societies
- FREN 333 – French Cultural Moments
- FREN 399 – Special Topics
- FREN 467 – Women Writing in French
- FREN 499 – Special Topics
- GERM 343 – Postwar Cultures
- GERM 353 – Myths, Tales, and Legends
- GERM 451 – Genre and Aesthetics
- GERM 453 – Cultural and Literary Theories
- GERM 454 – Gender and Sexuality
- HADVC 301 – Geographies of Art, Design, and Visual Culture
- HADVC 412 – Topics in Asian Art, Design and Visual Culture
- HECOL 441 – Textiles and Apparel in the Global Economy
- HGP 452

- ~~HIIST 104 – The Atomic Age: The World After 1945~~
- ~~HIIST 111 – The Early Modern World~~
- ~~HIIST 112 – The Modern World~~
- ~~HIIST 114 – The History of the World in the Last 10 Years~~
- ~~HIIST 123 – Plague: Disease and Epidemics in History~~
- ~~HIIST 127 – Drugs in Modern Global History~~
- ~~HIIST 128 – War, Revolution, and Society~~
- ~~HIIST 130 – Democracy, War and Consumer Capitalism: The Making of Modern Europe~~
- ~~HIIST 135 – Origins of Ancient India: Cities, Migrations and Peoples~~
- ~~HIIST 179 – Sex Work and Intimate Labour in Global History~~
- ~~HIIST 195 – Warfare Since 1789: From Mass Armies to Thermonuclear War~~
- ~~HIIST 205 – Capitalism~~
- ~~HIIST 206~~
- ~~HIIST 210 – Europe in the 19th and 20th Centuries~~
- ~~HIIST 212 – Early Modern Europe~~
- ~~HIIST 237 – The Pacific World Since 1500~~
- ~~HIIST 241 – Colonial Latin America~~
- ~~HIIST 242 – Modern Latin America~~
- ~~HIIST 246 – Africa from Medieval to Modern Times~~
- ~~HIIST 247 – Africa in the 20th and 21st Centuries: From Colonial Rule to Modern Nations~~
- ~~HIIST 250 – American History to 1865~~
- ~~HIIST 251 – From the End of Slavery to the Present: American History Since 1865~~
- ~~HIIST 252 – Slavery in the Americas~~
- ~~HIIST 280 – East Asia to 1500~~
- ~~HIIST 281 – East Asia from 1500~~
- ~~HIIST 285 – China and the West~~
- ~~HIIST 292 – Medieval India from 500 to 1500 CE~~
- ~~HIIST 293 – History of Science, Technology and Medicine: Key Moments~~
- ~~HIIST 294 – An Introduction to the History of Sciences, Technology, and Medicine~~
- ~~HIIST 296 – World War Two~~
- ~~HIIST 306~~
- ~~HIIST 308 – Sexuality and Gender in Modern Europe~~
- ~~HIIST 310 – A History of the Habsburg Monarchy, 1526-1918~~
- ~~HIIST 312~~
- ~~HIIST 313 – Medieval and Early Imperial Russia~~

- HIST 318 – Modern Ukraine
- HIST 320 – Russia from Reform to Revolution, 1800-1917
- HIST 322 – Russia in the 20th Century
- HIST 323 – The Middle East in the Making: 1300-1920
- HIST 339 – The Modern British Empire and the Commonwealth Experience
- HIST 342
- HIST 352 – African American History from Slavery to Black Power
- HIST 382 – History of Modern Japan
- HIST 383 – The Civilization and Culture of Early China
- HIST 385 – Modern China
- HIST 387 – History of Indian Yoga and Meditation
- HIST 390 – Imperial China from circa 600 to 1911
- HIST 395 – The Early British Empire
- HIST 405 – Fashion and Material Culture c. 1600-1900
- HISTE 121 – Histoire des mondes connectés: 1500-1815
- HISTE 122 – Histoire des mondes connectés depuis 1815
- HISTE 255
- HISTE 303
- HISTE 311 – Histoire de l’Afrique francophone
- HISTE 390 – Histoire publique et engagement communautaire
- INT D 303 – Economics of World Food and Agriculture
- INT D 361
- INT D 370
- INT D 375 – Intercultural Exploration of Health and Practice in Italy
- INT D 393
- INT D 420 – Perspectives on Inclusive and Global Health
- INT D 457 – Global Health – China Collaboration
- ITAL 299 – Special Topics
- KRLS 104 – Introduction to Sociology of Sport and Leisure in Canadian Society
- KRLS 440 – Play Around the World Program Preparation \*
- KRLS 441 – Play Around the World – Field Placement \*
- KRLS 451 – Cultural Studies of Sport and Leisure
- LA ST 205 – Mexico, Central America and the Caribbean
- LA ST 210 – South America

- LA ST 313 – Women in Latin America
- LA ST 399 – Topics in Latin American Studies
- LA ST 499 – Special Topics
- LING 224 – Endangered Languages
- LITT 230 – Francophonies littéraires hors Canada
- LITT 335 – Francophonies littéraires et discours identitaires
- MARK 455 – Sustainability and Responsible Marketing
- MLCS 210 – Approaches to Cultural Studies
- MLCS 299 – Special Topics
- MLCS 345 – Video Games across Cultures
- MLCS 399 – Special Topics
- MLCS 473 – Cultural Representations, World Media and Ethics
- MLCS 475
- MLCS 499 – Special Topics
- MUSIC 101 – Introduction to Western Art Music
- MUSIC 102 – Introduction to World Music
- MUSIC 103 – Introduction to Popular Music
- MUSIC 143 – Indian Music Ensemble I
- MUSIC 144 – West African Music Ensemble I \*
- MUSIC 148 – Middle Eastern and North African Music Ensemble I
- MUSIC 202 – Studies in World Music
- MUSIC 206
- MUSIC 314 – Music in Canada
- MUSIC 365 – Topics in Ethnomusicology \*
- MUSIC 413 – Studies in the History of Jazz
- MUSIC 443 – Indian Music Ensemble
- MUSIC 444 – West African Music Ensemble \*
- MUSIC 448 – Middle Eastern and North African Music Ensemble
- MUSIC 464 – Topics in Ethnomusicology: Music and Religion
- MUSIC 465 – Area Studies in Ethnomusicology
- MUSIC 466 – Topics in Ethnomusicology
- MUSIC 468 – Area Studies in Ethnomusicology: The Arab World
- MUSIC 469 – Area Studies in Ethnomusicology: Music and Islam
- MUSIC 472 – Area Studies in Ethnomusicology: Africa
- MUSIC 473 – Area Studies in Ethnomusicology: The Persianate World
- MUSIC 482 – Studies in Music and Gender
- MUSIC 489 – Studies in Music and Identity

- MUSIQ 301 - Musique et société
- NS 111 - Contemporary Perspectives in Indigenous Studies
- NS 300 - Traditional Cultural Foundations I
- NS 355 - Indigenous Knowledge and Oral Traditions
- NS 361 - Race, Stereotypes, and Indigeneity
- NS 405 - Selected Topics in International Indigenous Studies
- NURS 425 - Nursing Leadership in a Focus Area \*
- NURS 485 - Nursing Practice in a Focused Area \*
- NURS 498 - Special Study - Nursing \*
- PHARM 453 - Intercultural Exploration of Pharmacy and Health
- PHIL 202 - Indian Philosophy
- PHIL 203 - Islamic Philosophy
- PHIL 209 - The Human Person: Philosophical Issues
- PHIL 270 - Political Philosophy
- PHIL 339 - Contemporary World Views and Christianity
- PHIL 355 - Environmental Ethics
- PHIL 357 - Philosophy of Religion
- PHIL 366 - Computers and Culture
- PHILE 242 - Introduction aux philosophies non occidentales
- POL S 101 - Introduction to Politics
- POL S 211 - Introduction to History of Political Theory
- POL S 212 - Introduction to Contemporary Political Theory
- POL S 235 - Introduction to Comparative Politics
- POL S 237 - Introduction to Chinese Politics
- POL S 250 - The Politics of Gender
- POL S 261 - International Relations
- POL S 299 - Citizenship for Democracy
- POL S 304 - Modern Political Theory
- POL S 327 - Indigenous Politics in Canada
- POL S 329 - Global Indigenous Politics
- POL S 332 - Introduction to United States Politics and Government
- POL S 333 - Ecology and Politics
- POL S 360 - Politics of International Development
- POL S 364 - Introduction to International Political Economy
- POL S 370 - Politics of the European Union
- POL S 371 - Populism and Democracy in Central Europe



- POL S 375 - Politics of East Asia
- POL S 390 - Law and Politics
- POL S 404 - Topics in Political Theory
- POL S 417 - Topics in Human Rights
- POL S 425 - Ethnicity, Immigration and Social Policy
- POL S 441 - Gender and Public Policy
- POL S 442 - The Canadian State and Identity Politics
- POL S 443 - Globalization, Ethnic Politics and the Nation-State
- POL S 444 - Global Critical Race Theory
- POL S 445 - Topics in Globalization and Governance
- POL S 448 - Gender Politics and Mass Media
- POL S 452
- POL S 455 - Topics in Gender and Politics
- POL S 458 - United States Foreign Policy
- POL S 459 - Topics in International Politics
- POL S 460 - Global Security
- POL S 461 - International Relations of the Middle East
- POL S 468 - International Organization
- POL S 469 - Ethics in International Relations
- POL S 477 - Islam, Modernity, and Democracy
- POL S 479 - NGO Governance and Management
- POL S 486 - Topics in European Politics
- POL S 487 - Topics in European Union Politics
- R SOC 355 - Rural Communities and Global Economies
- R SOC 365 - Sociology of Environment and Development
- R SOC 443 - Resilience and Global Change
- R SOC 450 - Environmental Sociology
- R SOC 460 - Perspectives on Traditional Knowledge
- RELIG 205 - Introduction to Judaism
- RELIG 212 - Introduction to Christianity
- RELIG 220 - Introduction to Islam
- RELIG 230 - Introduction to Hinduism
- RELIG 240 - Introduction to Buddhism
- RELIG 320 - The Qur'an
- RELIG 333 - Modern Yoga
- RELIG 343 - Zen/Chan Buddhism
- RELIG 345 - Tantric Traditions
- RELIG 375 - Approaches to the Study of Religion
- REN R 100 - Forests: Ecology, Use and Society
- REN R 205 - Wildlife Biodiversity and Ecology
- REN R 260 - History and Fundamentals of Environmental Protection and Conservation

- ~~REN R 322 - Forest Ecosystems~~
- ~~REN R 333 - Wetland Sciences and Management~~
- ~~REN R 360 - Soil and Water Conservation~~
- ~~REN R 364 - Principles of Managing Natural Diversity~~
- ~~REN R 365 - Ecology of Northern Landscapes~~
- ~~REN R 376 - Fisheries and Wildlife Management~~
- ~~REN R 427 - Science Policy and Canada's North~~
- ~~REN R 440 - Disturbance Ecology Fundamentals~~
- ~~REN R 446 - Climates and Ecosystems~~
- ~~REN R 450 - Environmentally Sustainable Agriculture~~
- ~~REN R 452 - Forest Watershed Management~~
- ~~REN R 462 - Parks, Ecology, and Society~~
- ~~REN R 464 - Conservation and Management of Endangered Species~~
- ~~REN R 466 - Climate Change and the North~~
- ~~REN R 468 - Conservation of Genetic Resources~~
- ~~REN R 469 - Biodiversity Analysis~~
- ~~REN R 473 - Northern Resource Management~~
- ~~REN R 474 - Utilization of Wildlife Resources~~
- ~~RLS 100 - Life, Leisure, and the Pursuit of Happiness~~
- ~~RLS 130 - Collaborative Skills and Processes for Community Recreation and Leisure~~
- ~~RLS 223 - Leisure and Human Behavior~~
- ~~RLS 263 - Principles of Tourism~~
- ~~RLS 463 - Issues in Tourism Development~~
- ~~RLS 465 - Natural Area Tourism~~
- ~~SC PO 101 - Introduction au gouvernement~~
- ~~SC PO 261~~
- ~~SC PO 262~~
- ~~SCAND 213 - Scandinavian Life and Civilization I: History, Culture, and Society~~
- ~~SCAND 214 - Scandinavian Life and Civilization II: Literature, Film, and Music~~
- ~~SCAND 326 - Scandinavian Children's Literature~~
- ~~SCAND 343 - Scandinavia Through Folklore~~
- ~~SCAND 356 - Women in Scandinavian Literature and Popular Culture~~
- ~~SCAND 399 - Special Topics~~
- ~~SCSOC 301 - Musique et société~~
- ~~SCSOC 311~~
- ~~SEM 417 - Managing the Work Force: International Perspectives~~
- ~~SEM 435 - Managing International Enterprises~~
- ~~SLAV 222 - Euromaidan: Origins and Aftermath of the Ukrainian Revolution~~

- SLAV 299 - Special Topics
- SLAV 320 - Ukrainian Canadian Culture
- SLAV 399 - Special Topics
- SLAV 475 - Slavic Languages and Cultures in the Community
- SLAV 499 - Special Topics
- SOC 269 - Introductory Sociology of Globalization
- SOC 291 - Introduction to Environmental Sociology
- SOC 302 - Topics in Sociology \*
- SOC 343 - Social Movements
- SOC 369 - Sociology of Globalization
- SOC 370 - Racism and Decolonization
- SOC 402 - Topics in Sociology \*
- SOC 425 - Sociology of Terrorism
- SOC 496 - Human Rights in International Perspective
- SOCIE 260 - Inégalité et stratification sociales
- SOCIE 348 - Sociologie des média et de l'information
- SOCIE 369
- SOCIE 412 - Sociologie du développement
- SPAN 320 - Introduction to Literary Analysis
- SPAN 321 - Foundational Fictions of Spanish America
- SPAN 323 - Latin American Literature and the Environment
- SPAN 325 - Introduction to Cinema
- SPAN 333 - Reading Popular Culture
- SPAN 341 - The 'Roaring Twenties' in Transatlantic Perspective
- SPAN 373 - Spanish as a World Language
- SPAN 399 - Special Topics in Literature/Culture
- SPAN 405 - Exercises in Translation: Spanish into English
- SPAN 406 - Exercises in Translation: English into Spanish
- SPAN 425 - Hispanic Filmmakers
- SPAN 441 - Reading Colonial Culture
- SPAN 475 - Spanish in Society
- SPAN 499 - Special Topics in Literature/Culture
- SUST 201 - Introduction to Sustainability
- SUST 202 - Global Sustainable Development and the Sustainable Development Goals
- WGS 102 - Gender and Social Justice
- WGS 244 - Critical Disability Studies
- WGS 260 - Women and War
- WGS 310
- WGS 360 - Race, Class, and Gender

- ~~WGS 390 – Environmental Feminisms and Social Justice~~

**Notes**

1. ~~Maximum of 3 units from any given course can be used for the certificate.~~
2. ~~No more than 3 of the 12 units may be transfer credits from other postsecondary institutions.~~
3. ~~Students must meet the necessary prerequisites, co-requisites, and/or restrictions for courses used to satisfy the 9 units set out in 9 units selected from:~~
4. ~~\* Course/Section Clarifications:~~
  - ~~ALES 391 is applicable only for sections that are a part of the Field Course in Agriculture and Food Production (Alberta/Hiroshima Exchange Program).~~
  - ~~CSL 480 is applicable under the following conditions: For students in the Faculty of Pharmacy and Pharmaceutical Sciences, please ensure you are registered in the appropriate section for your Faculty, as approved by the Faculty's Associate Dean (Undergraduate Programs). For students outside of the Faculty of Pharmacy and Pharmaceutical Sciences, please obtain information on the eligibility of other sections from Community Service Learning, University of Alberta at csinfo@ualberta.ca.~~
  - ~~EDEX 425 and EDEX 450 are applicable only for international sections.~~
  - ~~KRLS 440/KRLS 441 or equivalent, as verified in writing by the Play Around the World Program Director, will be applicable.~~
  - ~~MEAS 300, MUSIC 144, MUSIC 444 and MUSIC 365 are applicable only for sections that are part of the Education Abroad Program in Ghana.~~
  - ~~NURS 425, NURS 485 and NURS 498 are applicable only for sections with the variable title: International.~~
  - ~~SOC 302 is applicable only for sections with the variable title: Anti-Racism and Racial Injustice.~~
  - ~~SOC 402 is applicable only for sections with the variable titles: The Commons and Climate Justice, Indigenous Settler Relations, Migration & Public Policy, or Gender, Race & Culture.~~

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date: Faculty of Education, Undergraduate Academic Affairs Council (UAAC) Approved - November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	Norma Nocente
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Winter 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In our continuous effort to provide a flexible and accommodating educational environment for our students in the Biological Science majors, we are implementing a change in the course requirements. Previously, BOT 205 was a mandatory course for all students. However, due to its high demand and limited availability, many students faced challenges in enrolling in this course, potentially impacting their academic progression.

To address this issue and ensure that our students have equitable access to essential learning opportunities, we are expanding the course requirements. Starting from Winter 2024 students will have the option to complete one of the following courses to fulfill their program requirements: BOT 205, BIOL 201, BIOL 221, or ZOO 224.

This change is driven by the following considerations:

1. **Diverse Learning Opportunities:** By including BIOL 201, BIOL 221, and ZOO 224 as alternatives, students can explore different facets of biological sciences, enriching their academic experience and broadening their knowledge base.
2. **Increased Flexibility:** The addition of these courses as alternatives to BOT 205 provides students with more options to plan their academic schedules, helping them to progress in their studies without delays.
3. **Resource Optimization:** This change allows for a more balanced distribution of students across courses, optimizing the use of the Biological Science Department resources.
4. **Alignment with Educational Objectives:** Each of these courses aligns with the core learning objectives in the biology program of studies, ensuring that regardless of the choice, students receive a comprehensive education in biological sciences.



Faculty (& Department or Academic Unit):	Education
Contact Person:	Jennifer Branch-Mueller
Level of change: (choose one only) [?]	• Undergraduate
	• Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course has not been taught in a number of years and is on the Reserve List. We would like to “bring back” that course with updated language and with an understanding that we are going through curriculum change for our elementary science program.

## Course Template

Current: <del>Removed language</del>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDEL 433</p> <p><b>Title</b> <del>Pedagogical Content Knowledge for Elementary Science II</del></p> <p><b>Course Career</b> Units 3 Approved Hours 3-0-0 Fee index 6 Faculty Education Department Typically Offered Winter</p> <p><b>Description</b> This course <del>consists of</del> children's conceptions of <del>the earth and sky</del> and ways teachers can design teaching strategies to assist children in restructuring these conceptions. <del>Specific topics include air and aerodynamics; sky science; weather watch; and rocks and minerals.</del> Prerequisite: EDEL 330.</p>	<p><b>Subject &amp; Number</b> EDEL 433</p> <p><b>Title</b> <b>Issues in Pedagogy for Elementary School Science</b></p> <p><b>Course Career</b> Units 3 Approved Hours 3-0-0 Fee index Faculty Education Department Typically Offered Winter</p> <p><b>Description</b> This course <b>focuses on issues in science education and children's conceptions of science content with attention to pedagogical strategies.</b> Prerequisite: EDEL 330.</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date: Faculty of Education, Undergraduate Academic Affairs Council (UAAC) Approved - November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.





Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 200, the pre/corequisite was corrected. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 200</p> <p><b>Title</b> Orientation to School Cultures and Contexts</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Introduces pre-service teachers to school cultures and contexts through active observation in schools. Pre-<b>C</b>orequisite EDU 100 <b>and</b> 300.</p>	<p><b>Subject &amp; Number</b> EDFX 200</p> <p><b>Title</b> Orientation to School Cultures and Contexts</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> VARIABLE <b>Fee index</b> 6 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Introduces pre-service teachers to school cultures and contexts through active observation in schools. Pre/<b>C</b>orequisite: EDU 100 <b>or</b> EDU 300.</p>

## Reviewed/Approved by:

REQUIRED: Faculty of Education, Undergraduate Academic Affairs (UAAC) Approved - November 23, 2023.

OPTIONAL: *Other internal faculty approving bodies, consultation groups, or departments, and approval dates.*

Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 325, a course description was added, IPT in the note is more specific and aligns with EDFX 350 (and now other EDFX entries), corrected and elaborated additional fee statements, and aligned registration restriction with EDFX 350. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 325</p> <p><b>Title</b> Elementary Route: Introductory Field Experience</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 6 <b>Approved Hours</b> FT IN SCH <b>Fee index</b> 12 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Pre/corequisites: EDEL 305, 316. Corequisite: EDPY 303. Note: Successful completion of the on-campus portion of <b>Year 3 is expected</b> prior to being granted permission to continue into EDFX 325. Requires payment of additional <b>miscellaneous fees</b>. Students are not permitted to enroll <b>or work on</b> courses additional to those scheduled in conjunction with the <b>field experience</b>.</p>	<p><b>Subject &amp; Number</b> EDFX 325</p> <p><b>Title</b> Elementary Route: Introductory Field Experience</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 6 <b>Approved Hours</b> FT IN SCH <b>Fee index</b> 12 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> <b>Through an introductory 25-day practicum, pre-service teachers develop pedagogical approaches in an elementary school setting by integrating theory with practice.</b> Pre/corequisites: EDEL 305, 316. Corequisite: EDPY 303. Note: Successful completion of the on-campus portion of <b>the Introductory Professional Term (IPT) is required</b> prior to being granted permission to continue into EDFX 325. Requires payment of <b>an additional fee.</b> Refer to the <b>Tuition and Fees page in the University Regulations section of the Calendar.</b> Students are not permitted to enroll <b>in</b> courses additional to those scheduled in conjunction with the <b>IPT.</b></p>

**Reviewed/Approved by:**

REQUIRED: Faculty of Education, Undergraduate Academic Affairs (UAAC) - Approved November 23, 2023.

OPTIONAL: *Other internal faculty approving bodies, consultation groups, or departments, and approval dates.*

Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 350, a course description was added, criteria for continuation aligned with other EDFX courses, and corrected and elaborated additional fee statements. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 350</p> <p><b>Title</b> Secondary Route Field Experience for the Introductory Professional Term</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 6 <b>Approved Hours</b> FT IN SCH <b>Fee index</b> 12 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Prerequisites: *9 in the Major subject area, EDPY 304, EDU 100/300, 210, 211. Corequisites: <del>Courses in the Introductory Professional Term (IPT) for the Secondary Education Route.</del> Note: Successful completion of the on-campus portion of the IPT is <del>expected</del> prior to being granted permission to continue into EDFX 350. Requires payment of an additional <del>field experience</del> fee. Students are not permitted to <del>register</del> in courses additional to those scheduled in conjunction with the IPT.</p>	<p><b>Subject &amp; Number</b> EDFX 350</p> <p><b>Title</b> Secondary Route: Field Experience for the Introductory Professional Term</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 6 <b>Approved Hours</b> FT IN SCH <b>Fee index</b> 12 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Through an introductory 25-day practicum, pre-service teachers develop pedagogical approaches in a secondary school setting by integrating theory with practice. Prerequisites: 9 units in the Major subject area, EDPY 304, EDU 100 or 300, 210, 211. Corequisites: EDPY 303, EDSE 307, and the 300-level EDSE Curriculum and Teaching course for your major. Note: Successful completion of the on-campus portion of the IPT is <b>required</b> prior to being granted permission to continue into EDFX 350. Requires payment of an additional fee. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Students are not permitted to <b>enroll</b> in courses additional to those</p>

	scheduled in conjunction with the IPT.
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty of Education, Undergraduate Academic Affairs - Approved <i>November 23, 2023</i> .
--

OPTIONAL: <i>Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</i>
--

Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 425, a course description was added, prerequisite was changed to EDFX 325 as the requirement is clearer and includes all co/prereqs for EDFX 325 (the IPT), APT in the note is more specific and aligns with EDFX 350 structure (and now other EDFX entries), corrected and elaborated additional fee statements, and aligned registration restriction with EDFX 350. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 425</p> <p><b>Title</b> Elementary Route: Advanced Field Experience</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 9</p> <p><b>Approved Hours</b> FT IN SCH</p> <p><b>Fee index</b> 18</p> <p><b>Faculty</b> Education</p> <p><b>Department</b> Education</p> <p><b>Typically Offered</b> either term</p> <p><b>Description</b> Prerequisites: <b>Introductory Professional Year.</b> Corequisites: EDPY 301. Note: Successful completion of the <b>corequisites is expected</b> prior to <b>students</b> being granted permission to <b>commence</b> EDFX 425. Requires payment of additional <b>miscellaneous fees</b>. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Students are not permitted to enroll <b>or work on</b> courses additional to those scheduled in conjunction with the <b>field experience</b>.</p>	<p><b>Subject &amp; Number</b> EDFX 425</p> <p><b>Title</b> Elementary Route: Advanced Field Experience</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 9</p> <p><b>Approved Hours</b> FT IN SCH</p> <p><b>Fee index</b> 18</p> <p><b>Faculty</b> Education</p> <p><b>Department</b> Education</p> <p><b>Typically Offered</b> either term</p> <p><b>Description</b> Through an advanced 45-day practicum in an elementary school setting, pre-service teachers develop toward the competencies listed in the Teaching Quality Standard. <b>Prerequisite: EDFX 325.</b> Corequisites: EDPY 301. Note: Successful completion of the <b>on-campus portion of the Advanced Professional Term (APT) is required</b> prior to being granted permission to <b>continue into</b> EDFX 425. Requires payment of <b>an</b> additional <b>fee</b>. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Students are not permitted to enroll <b>in</b> courses additional to those scheduled in conjunction with the <b>APT</b>.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty of Education, Undergraduate Academic Affairs (UAAC) - Approved November 23, 2023.
---

OPTIONAL: <i>Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</i>
--



Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 450, a course description was added, prerequisite was changed to EDFX 350 as the requirement is clearer and includes all co/prereqs for EDFX 350 (the IPT), APT in the note is more specific and aligns with EDFX 350 structure (and now other EDFX entries), corrected and elaborated additional fee statements, and aligned registration restriction with EDFX 350. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 450</p> <p><b>Title</b> Secondary Route: Advanced Field Experience</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 9 <b>Approved Hours</b> FT IN SCH <b>Fee index</b> 18 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Prerequisites: <del>The Introductory Professional Term</del> and *24 in the Major subject area. Corequisite: EDSE 4XX (Curriculum and Teaching for Secondary School Majors II). Note: Successful completion of the <del>prerequisites is expected</del> prior to <del>students</del> being granted permission to <del>commence</del> EDFX 450. Requires payment of additional <del>miscellaneous fees</del>. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Students are not permitted to enroll <del>or work on</del> courses <del>additional to</del> the APT.</p>	<p><b>Subject &amp; Number</b> EDFX 450</p> <p><b>Title</b> Secondary Route: Advanced Field Experience</p> <p><b>Course Career</b> Undergraduate <b>Units</b> 9 <b>Approved Hours</b> FT IN SCH <b>Fee index</b> 18 <b>Faculty</b> Education <b>Department</b> Education <b>Typically Offered</b> either term</p> <p><b>Description</b> Through an advanced 45-day practicum in a secondary school setting, pre-service teachers develop toward the competencies listed in the Teaching Quality Standard. Prerequisites: <b>EDFX 350</b> and 24 units in the Major subject area. Corequisite: The 400-level EDSE Curriculum and Teaching course for your major. Note: Successful completion of the <b>on-campus portion of the Advanced Professional Term (APT)</b> is required prior to being granted permission to <b>continue into</b> EDFX 450. Requires payment of <b>an additional fee</b>. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Students are not permitted to</p>

	enroll in courses additional to those scheduled in conjunction with the APT.
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty of Education, Undergraduate Academic Affairs - Approved <i>November 23, 2023</i> .
--

OPTIONAL: <i>Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</i>
--

Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). EDFX 490 is an omnibus course number. For EDFX 490, prerequisite was changed to EDFX 325 or EDFX 350, then the requirement is clearer and includes all co/prereqs for EDFX 325 or EDFX 350 and removed Assistant Dean (position no longer exists and it was not done in practice), and corrected additional fee statement. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 490</p> <p><b>Title</b> Additional Placement in an Education Related and/or Outside Alberta Context</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1-6  <b>Approved Hours</b> VARIABLE  <b>Fee index</b> VAR  <b>Faculty</b> Education  <b>Department</b> Education  <b>Typically Offered</b> variable</p> <p><b>Description</b>            Prerequisites: <b>Introductory Field Experience</b> and permission of the <b>Assistant Dean, Field Experiences</b>. Requires payment of additional <b>student instructional support fees</b>. Refer to the Tuition and Fees page in the University Regulations section of the Calendar.</p>	<p><b>Subject &amp; Number</b> EDFX 490</p> <p><b>Title</b> Additional Placement in an Education Related and/or Outside Alberta Context</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1-6  <b>Approved Hours</b> VARIABLE  <b>Fee index</b> VAR  <b>Faculty</b> Education  <b>Department</b> Education  <b>Typically Offered</b> variable</p> <p><b>Description</b>  <b>Prerequisite:</b> EDFX 325 or EDFX 350. Requires payment of an additional <b>fee</b>. Refer to the Tuition and Fees page in the University Regulations section of the Calendar.</p>

## Reviewed/Approved by:

REQUIRED: Faculty of Education, Undergraduate Academic Affairs (UAAC) - Approved November 23, 2023.

OPTIONAL: *Other internal faculty approving bodies, consultation groups, or departments, and approval dates.*

Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Bachelor of Education Field Experiences Calendar entries have undergone a review and all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). EDFX 495 is a new course to assist our students, support staff, faculty members and field partners to understand the difference between EDFX 490, which is an omnibus course number and EDFX 495, which is a supplementary specialized field experience such as early childhood or special needs.

The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
<b>New Course</b>	<p><b><span style="background-color: yellow;">EDFX 495</span></b></p> <p><b><span style="background-color: yellow;">Title: Supplementary Specialized Field Experience</span></b></p> <p><b><span style="background-color: yellow;">Course Career Undergraduate</span></b>  <b><span style="background-color: yellow;">Units 1-6</span></b>  <b><span style="background-color: yellow;">Approved Hours VARIABLE</span></b>  <b><span style="background-color: yellow;">Fee index VAR</span></b>  <b><span style="background-color: yellow;">Faculty Education</span></b>  <b><span style="background-color: yellow;">Department Education</span></b>  <b><span style="background-color: yellow;">Typically Offered variable</span></b></p> <p><b><span style="background-color: yellow;">Description:</span></b> This is a supplementary specialized field experience such as early childhood or special needs.</p> <p><b><span style="background-color: yellow;">Prerequisite:</span></b> EDFX 325 or EDFX 350. Requires payment of an additional fee. Refer to the Tuition and Fees page in the University Regulations section of the Calendar.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty of Education, Undergraduate Academic Affairs Council (UAAC) Approved - November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.



**UNIVERSITY  
OF ALBERTA**

**Faculty of  
Education Fall 2024**

## **EDFX 495: Supplementary Specialized Field Experience**

Policy about course outlines can be found in [Course Requirements, Evaluation Procedures and Grading Section](#) of the [University Calendar](#)

### **Instructor Information**

Instructor:

Contact information:

Office hours:

### **Course Corequisites and/or Prerequisites**

Prerequisites: EDFX 325 or EDFX 425 or EDFX 350 or EDFX 450.

### **Important Dates**

First Day:

Add/Delete Date:

50% Withdrawal Date:

Reading Week (no classes):

Withdrawal Date:

Last Day:

### **Course Description**

EDFX 495 is a supplementary specialized field experience for 15 days throughout a term. Placements will be offered at a variety of specialized sites such as early learning, special needs, or outreach programs. Specific responsibilities will be dependent on the site, but all will involve working alongside mentor teachers in supporting students one-on-one, in small groups and/or whole class instruction. EDFX 495 is a 3 ucw course and can be used as an open option or taken as an extra-to-degree class. This experience does not replace either of the Introductory Field Experience or Advanced Field Experience.

## Course Objectives

Relationship of the Course Content to [the Teaching Quality Standard \(TQS\) \(PDF, 813 KB\)](#)

The focus of this course contributes to the development of competency #3 (Demonstrating a Professional Body of Knowledge). In addition, the activities and experiences in the course contribute to developing competencies #1 (Fostering Effective Relationships), #2 (Engaging in Career-Long Learning), #4 (Establish Inclusive Learning Environments), #5 (Applying Foundational Knowledge about First Nations, Métis, and Inuit), and #6 (Adhering to Legal Frameworks and Policies).

This field experience provides students with additional practical experience in a school environment, providing an opportunity for students to deepen their understanding of the diversity found in schools and to develop strategies for programming for a greater range of student needs.

## Content

Students will be required to:

- attend a mandatory preparatory seminar before making contact with their mentor teacher or beginning the field experience,
- provide an introductory and emergency contact form to the school coordinator and mentor teacher(s),
- follow all policies and procedures of their placement school district/division, including but not limited to providing documents such as Police Record Check, Intervention Record Check, COVID vaccination record,
- develop a schedule in collaboration with the mentor teacher,
- attend the equivalent of 15 full days (**Note: Any absences must be made up by scheduling additional days.**),
- demonstrate regular attendance at the placement school. **Students not attending regularly will jeopardize their field experience and may not receive credit for this course. Prolonged absences will be dealt with on an individual basis.**
- set goals that they will work towards achieving during their placement,
- engage in teaching assignments as directed by their mentor teacher(s),
- engage in reflective conversations with their mentor teacher(s),
- accept feedback about their teaching and respond to feedback and direction,
- develop and update a professional growth plan that includes specific goals and strategies to be carried out during the field experience,
- review goals and assess the strategies being using to achieve them,
- prepare and submit a reflective statement for their final assessment.

## Course Evaluation

Pre-service teachers are supervised and observed by mentor teachers, who provide feedback and a written assessment of teaching skills guided by the TQS.

## Grading and Assessment

This is a credit / no-credit field experience course based on the final assessment completed by the mentor teacher(s) in consultation with the pre-service teacher. The final course grade will be reported as CR (Credit) or NC (No credit). It will not be official until it has been approved and posted on Bear Tracks.



## **Grade Appeals**

Information on grade appeals can be obtained from the Education Student Services office (ED North 1-107 or [educ.info@ualberta.ca](mailto:educ.info@ualberta.ca)).

## **Standard Policy Statements**

### **1. Equity statement and inclusive language policy**

The Faculty of Education is committed to providing an environment of equality and respect for all people within the university community, and to educating staff and students in developing teaching and learning contexts that are welcoming to all. In seeking to achieve a climate of respect and dignity, all staff and students must use inclusive language to create a classroom in which an individual's experience and views are treated with equal respect and value in relation to their gender, racial background, sexual orientation, and ethnic background.

### **2. Code of Student Behavior**

The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behavior ([Code of Student Behaviour](#) and Code of Student Behaviour- [PDF Printable Version](#)) and avoid any behavior, which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offense. Academic dishonesty is a serious offense and can result in suspension or expulsion from the University.

### **3. Professional Conduct**

In addition to upholding the University of Alberta Code of Student Behavior, students in the Faculty of Education are expected to conduct themselves according to the Alberta Teachers' Association Code of Professional Conduct (online at [Teaching – Code of professional conduct | Alberta.ca](#) listed under "The Teaching Profession"). While enrolled in the IPT or APT, students are also subject to the guidelines described in the Practicum Intervention Policy ([Practicum Intervention Policy](#) and [PDF Printable Version](#)).

## **Personal or Academic Difficulties**

Students experiencing academic or personal difficulties may contact Undergraduate Student Services (ED North 1-107, email: [educ.info@ualberta.ca](mailto:educ.info@ualberta.ca), phone: 780-492-3659) for support services.

## **Student Advising Services**

Undergraduate students in the Faculty of Education who have questions about their programs or planning their courses, should visit the Undergraduate Student Services Office (ED North 1-107 or

[educ.info@ualberta.ca](mailto:educ.info@ualberta.ca)). This office is open from 9am to 3pm, Monday to Friday, closed statutory holidays and U of A closures. In addition to program planning, advisors in this office assess transfer credit, process Registration and Graduation Checks, and provide other student support services.

### **Recording Class Lectures**

Audio or video recording, digital or otherwise, of lectures, labs, seminars or any other teaching environment by students is allowed only with the prior written consent of the instructor or as a part of an approved accommodation plan. Student or instructor content, digital or otherwise, created and/or used within the context of the course is to be used solely for personal study, and is not to be used or distributed for any other purpose without prior written consent from the content author(s).

## Undergraduate Academic Affairs Council - TQS Template for Course Outlines

This course is proposed to be a component of the Bachelor of Education program that prepares students for Interim Professional Certification by Alberta Education. This course prepares students to meet the [Alberta Teaching Quality Standard](#):

*Quality teaching occurs when the teacher's ongoing analysis of the context, and the teacher's decisions about which pedagogical knowledge and abilities to apply, result in optimum learning for all students.*

The Alberta Teaching Quality Standard refers to a series of expected competencies:

1. **Fostering Effective Relationships:** A teacher builds positive and productive relationships with students, parents/guardians, peers and others in the school and local community to support student learning.
2. **Engaging in Career-Long Learning:** A teacher engages in career-long professional learning and ongoing critical reflection to improve teaching and learning.
3. **Demonstrating a Professional Body of Knowledge:** A teacher applies a current and comprehensive repertoire of effective planning, instruction, and assessment practices to meet the learning needs of every student.
4. **Establishing Inclusive Learning Environments:** A teacher establishes, promotes and sustains inclusive learning environments where diversity is embraced and every student is welcomed, cared for, respected and safe.
5. **Applying Foundational Knowledge about First Nations, Métis and Inuit:** A teacher develops and applies foundational knowledge about First Nations, Métis and Inuit for the benefit of all students.
6. **Adhering to Legal Frameworks and Policies:** A teacher demonstrates an understanding of and adherence to the legal frameworks and policies that provide the foundations for the Alberta education system.

The TQS document provides example indicators for each competency,

<https://open.alberta.ca/dataset/14d92858-fec0-449b-a9ad-52c05000b4de/resource/09cd735a-3a02-4f1f-8e23-51a11e6dfb06/download/educ-teaching-quality-standard-2023.pdf>

Please note that the indicators are for example purposes and should not be viewed as specific requirements.

## New Course Submission

In regard to the Alberta Teaching Quality Standard, this course prepares students to meet the following competencies:

- indicate the degree to which the listed competencies are addressed in the proposed new course offering
- briefly outline how the course will intentionally prepare students to meet the competency
- not all courses are expected to address all competencies

**Proposed Course Name: Supplementary Specialized Field Experience Proposed Course Number: 495**

<p><b>Overview of Specific Course Objectives:</b></p> <p><b>General Outcome:</b> To offer a supplementary specialized field placement for pre-service teachers such as early childhood or special needs. Prerequisites include successful completion of IFX and/or AFX.</p> <p><b>Specific Objectives - throughout 15 days in schools, preservice teachers will have the opportunity to:</b></p> <ul style="list-style-type: none"> <li>● complete a 3 ucw in a specialized supplementary field experience</li> <li>● learn how a specialized program or programs is/are developed and implemented to support EDID</li> <li>● integrate theory and practice in meaningful and appropriate ways considering the EDFX context.</li> </ul>
---

Competency Rating: 1 = Not Covered 2 = Minimally Covered 3 = Moderately Covered 4 = Very Well Covered

Competencies	1	2	3	4	Briefly outline how competency is intended to be met
1. <b>Fostering Effective Relationships:</b> A teacher builds positive and productive relationships with students, parents/guardians, peers and others in the school and local community to support student learning.				x	Throughout this field experience, pre-service teachers demonstrate their ability to initiate, maintain, sustain and enhance meaningful interactions with students, parents/guardians, peers, mentor teachers, and others in the school and community as appropriate to facilitate and optimize students' educational experiences.
2. <b>Engaging in Career-Long Learning:</b> A teacher engages in career-long professional learning and ongoing critical reflection to improve teaching and learning.		x			During the development and review of the Professional Growth Plan, which is used for assessment, the pre-service teacher is planning forward to engage in professional learning opportunities. There may be professional learning opportunities offered to the pre-service such as conventions and/or professional district/school days.
3. <b>Demonstrating a Professional Body of Knowledge:</b> A teacher applies a current and comprehensive repertoire of effective planning, instruction, and assessment practices to meet the learning needs of every student.				x	Throughout this field experience, pre-service teachers demonstrate their curriculum and pedagogical competencies. In addition, there will be a concentrated focus of content and delivery as appropriate for the student(s) within the designated learning space in the school context.
4. <b>Establishing Inclusive Learning Environments:</b> A teacher establishes, promotes and sustains inclusive learning environments where diversity is embraced and every student is welcomed, cared for, respected and safe.				x	Pre-service teachers will have completed, at a minimum, EDU 211: Aboriginal Education and Contexts for Professional and Personal Engagement as well as the Introductory Professional Term (IPT) education courses, which include EDPY 303: Educational Assessment for all students, EDPY 302: Learning and Development in Childhood for elementary students and EDPY 304: Adolescent Development and Learning for secondary students.

<p>5. <b>Applying Foundational Knowledge about First Nations, Métis and Inuit:</b> A teacher develops and applies foundational knowledge about First Nations, Métis and Inuit for the benefit of all students.</p>			x	<p>Pre-service teachers will have completed, at a minimum, EDU 211: Aboriginal Education and Contexts for Professional and Personal Engagement as well as the Introductory Professional Term education courses. In addition, every education course had indicated on the course outline how competency #5 is addressed. Thus, they will have acquired foundational content knowledge and pedagogical strategies that can be implemented and built upon.</p>
<p>6. <b>Adhering to Legal Frameworks and Policies:</b> A teacher demonstrates an understanding of and adherence to the legal frameworks and policies that provide the foundations for the Alberta education system.</p>			x	<p>Since pre-service teachers will have completed at least one placement, they will have familiarity with the legal frameworks and policies that underlie the Alberta education system. They may or may not have completed Educational Policy Studies 410: Ethics and the Law.</p>

Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 498, a minor change from "\*" to "ucs" was made, along with corrected and elaborated additional fee statements. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 498</p> <p><b>Title</b> Field Experience in the Elementary School</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1-12  <b>Approved Hours</b> VARIABLE  <b>Fee index</b> VAR  <b>Faculty</b> Education  <b>Department</b> Education  <b>Typically Offered</b> variable</p> <p><b>Description</b>            Pre/corequisites: A minimum of 9 in approved Education courses and/or by consent of Field Experiences.            Requires payment of an additional <b>field experience</b> fee.</p>	<p><b>Subject &amp; Number</b> EDFX 498</p> <p><b>Title</b> Field Experience in the Elementary School</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1-12  <b>Approved Hours</b> VARIABLE  <b>Fee index</b> VAR  <b>Faculty</b> Education  <b>Department</b> Education  <b>Typically Offered</b> variable</p> <p><b>Description</b>            Pre/corequisites: A minimum of 9 <b>units</b> in approved Education courses and/or by consent of Field Experiences. Requires payment of an additional fee.  <b>Refer to the Tuition and Fees page in the University Regulations section of the Calendar.</b></p>

## Reviewed/Approved by:

REQUIRED: Faculty of Education, Undergraduate Academic Affairs (UAAC) - Approved November 23, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Education
Contact Person:	Janelle McFeetors
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In reviewing all of the EDFX calendar entries, incorrect information and inconsistencies were identified across course overviews, pre/corequisites, expectations for the on-campus portion of the term, additional fees, and restrictions on other course registration (as needed). For EDFX 499, a minor change was made from "\*" to "ucw", along with corrected and elaborated additional fee statements. These calendar changes are being requested to bring consistency across all the EDFX courses in the University Calendar. The calendar changes will provide clarity to students about expectations for the course and support the Faculty's decisions about students' progression. There is no impact on program structure, as the changes just clarify program administration.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> EDFX 499</p> <p><b>Title</b> Field Experience in the Secondary School</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1-12  <b>Approved Hours</b> VARIABLE  <b>Fee index</b> VAR  <b>Faculty</b> Education  <b>Department</b> Education  <b>Typically Offered</b> variable</p> <p><b>Description</b>            Pre/corequisites: A minimum of 9 in approved Education courses and/or by consent of Field Experiences.            Requires payment of an additional <b>field experience</b> fee.</p>	<p><b>Subject &amp; Number</b> EDFX 499</p> <p><b>Title</b> Field Experience in the Secondary School</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1-12  <b>Approved Hours</b> VARIABLE  <b>Fee index</b> VAR  <b>Faculty</b> Education  <b>Department</b> Education  <b>Typically Offered</b> variable</p> <p><b>Description</b>            Pre/corequisites: A minimum of 9 <b>units</b> in approved Education courses and/or by consent of Field Experiences. Requires payment of an additional fee.  <b>Refer to the Tuition and Fees page in the University Regulations section of the Calendar.</b></p>

## Reviewed/Approved by:

REQUIRED: Faculty of Education, Undergraduate Academic Affairs (UAAC) - Approved November 23, 2023.

OPTIONAL: *Other internal faculty approving bodies, consultation groups, or departments, and approval dates.*

Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In the Program Requirements, the Introductory Professional Term (IPT) (15 units) lists EDSE 3XX (3 units) Curriculum and Teaching for Secondary School Majors I as part of the IPT and the Advanced Professional Term (APT) (15 Units) lists EDSE 4XX (6 units) Curriculum and Teaching for Secondary School Majors II.

Students not meeting the prerequisites are at risk of being removed from some or all of the APT. Update is required to further support students' program planning and ensure the prerequisites are met.

The specific EDSE 3XX/4XX course required for each Major are outlined in Education Chart 1 and Education Chart 3 Requirements for Major Teaching Subjects. Updating EDSE 4XX Majors II course descriptions to explicitly list the specific EDSE 3XX Majors I course that is the prerequisite to the EDSE 4XX Majors II course.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>EDSE 412 - Curriculum and Teaching in Secondary School Art Majors II</b>            Course Career Undergraduate            Units 6            Approved Hours 6-0-0            Fee index 12            Faculty Education            Department Education            Typically Offered either term</p> <p><b>Description</b>            Prerequisites: Introductory Professional Term and 24 units in the Major Subject area. Successful completion is <b>expected</b> prior to being granted permission to <b>commence</b> EDFX 450.</p>	<p><b>EDSE 412 - Curriculum and Teaching in Secondary School Art Majors II</b>            Course Career Undergraduate            Units 6            Approved Hours 6-0-0            Fee index 12            Faculty Education            Department Education            Typically Offered either term</p> <p><b>Description</b>            Prerequisites: Introductory Professional Term, <b>including EDSE 312</b> and 24 units in the Major Subject area. Successful completion is <b>required</b> prior to being granted permission to <b>continue in</b> EDFX 450.</p>



<p><b>EDSE 417 - Curriculum and Teaching for Secondary School Career and Technology Studies Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the Major subject. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 417 - Curriculum and Teaching for Secondary School Career and Technology Studies Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including EDSE 317 and 24 units in the Major subject. Successful completion is required prior to being granted permission to continue in EDFX 450.</p>
<p><b>EDSE 422 - Curriculum and Teaching for Secondary School Drama Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the <del>required Drama courses as specified in Education section of the Calendar under the heading Components of the Program.</del> Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 422 - Curriculum and Teaching for Secondary School Drama Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including EDSE 322 and 24 units in the Major subject. Successful completion is required prior to being granted permission to continue in EDFX 450.</p>
<p><b>EDSE 427 - Curriculum and Teaching for Secondary School English Language Arts Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the Major subject area. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 427 - Curriculum and Teaching for Secondary School English Language Arts Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including EDSE 327 and 24 units in the Major subject area. Successful completion is required prior to being granted permission to continue in EDFX 450.</p>

<p><b>EDSE 437 - Curriculum and Teaching for Secondary School Mathematics Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the Major subject area. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 437 - Curriculum and Teaching for Secondary School Mathematics Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including <b>EDSE 337</b> and 24 units in the Major subject area. Successful completion is <b>required</b> prior to being granted permission to <b>continue in</b> EDFX 450.</p>
<p><b>EDSE 443 - Curriculum and Teaching for Secondary School Music: Wind Band II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered second term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional term and 24 units in the Major subject area to include Music 213, 214 and 315. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 443 - Curriculum and Teaching for Secondary School Music: Wind Band II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered second term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional term, including <b>EDSE 343</b> and 24 units in the Major subject area to include Music 213, 214 and 315. Successful completion is <b>required</b> prior to being granted permission to <b>continue in</b> EDFX 450.</p>
<p><b>EDSE 447 - Curriculum and Teaching for Secondary School Physical Education Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the Major subject area <del>to include KIN 294 or PAG 404</del>. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 447 - Curriculum and Teaching for Secondary School Physical Education Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including <b>EDSE 347</b> and 24 units in the Major subject area. Successful completion is <b>required</b> prior to being granted permission to <b>continue in</b> EDFX 450.</p>

<p><b>EDSE 455 - Curriculum and Teaching for Secondary School Science Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Introductory Professional Term and 24 units in the Major subject area. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450. Students may only receive credit for one of EDSE 452, EDSE 455, EDSE 456, or EDSE 460.</p>	<p><b>EDSE 455 - Curriculum and Teaching for Secondary School Science Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Introductory Professional Term, including EDSE 355 and 24 units in the Major subject area. Successful completion is required prior to being granted permission to continue in EDFX 450. Students may only receive credit for one of EDSE 452, EDSE 455, EDSE 456, or EDSE 460.</p>
<p><b>EDSE 468 - Curriculum and Teaching for Secondary School Second Language Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the Major subject area. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 468 - Curriculum and Teaching for Secondary School Second Language Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including EDSE 368 and 24 units in the Major subject area. Successful completion is required prior to being granted permission to continue in EDFX 450.</p>
<p><b>EDSE 473 - Curriculum and Teaching for Secondary School Social Studies Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term and 24 units in the Major subject area. Successful completion is <del>expected</del> prior to being granted permission to <del>commence</del> EDFX 450.</p>	<p><b>EDSE 473 - Curriculum and Teaching for Secondary School Social Studies Majors II</b>                  Course Career Undergraduate                  Units 6                  Approved Hours 6-0-0                  Fee index 12                  Faculty Education                  Department Education                  Typically Offered either term</p> <p><b>Description</b>                  Prerequisites: Introductory Professional Term, including EDSE 373 and 24 units in the Major subject area. Successful completion is required prior to being granted permission to continue in EDFX 450.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date: Faculty of Education, Undergraduate Academic Affairs Council (UAAC) Approved - November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	Norma Nocente
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Winter 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In our ongoing efforts to enhance the academic experience and ease of course selection for students majoring in science, we are implementing a strategic change in how courses are categorized and presented. This modification involves organizing course offerings under the names of the departments that offer them and explicitly listing specific course codes.

This change is being made with the following objectives in mind:

1. **Streamlined Course Selection Process:** By categorizing courses under department names, we provide a clearer and more intuitive structure for students to navigate. This approach aligns with the organizational structure of the faculties involved, making it easier for students to find course offerings.
2. **Increased Clarity and Accessibility:** The inclusion of specific course codes alongside course titles in the catalogue will significantly enhance the ease with which students can identify and enroll in courses.
3. **Facilitated Academic Advising:** This reorganization will also aid academic advisors in guiding students more effectively. With courses categorized by department and specific codes readily available, advisors can more easily recommend courses that align with each student's academic goals and interests.

We believe that this reorganization of the course selection structure will greatly benefit our students and administrative staff by providing a more coherent, user-friendly, and efficient system.

### Calendar Copy

URL in current Calendar (or "New page")

Current Copy: ~~Removed language~~

Proposed Copy: New language

**Secondary Education Major Teaching  
Subject: Biological Sciences**

**9 to 15 units but with no more than 9 units  
in each of**

- ~~Astronomy~~
- ~~Biochemistry~~
- ~~Biological Sciences (including Botany,  
Forestry, Genetics, Microbiology, Soils and  
Zoology)~~
- ~~Biophysics~~
- ~~Chemistry~~
- ~~Environmental Sciences (EAS [Faculty of  
Science], ENGS, REN-R)~~
- ~~Mathematics~~
- ~~Physics~~

**Secondary Education Major Teaching  
Subject: Chemistry**

**12 to 15 units but with no more than 9  
units in each of**

- ~~Astronomy~~
- ~~Biochemistry~~
- ~~Biological Sciences (including Botany,  
Forestry, Genetics, Microbiology, Soils and  
Zoology)~~
- ~~Biophysics~~
- ~~Chemistry~~
- ~~Environmental Sciences (EAS [Faculty of  
Science], ENGS, REN-R)~~
- ~~Mathematics~~

**Secondary Education Major Teaching  
Subject: Biological Sciences**

**9 to 15 units but with no more than 9 units  
in each of**

- Biological Sciences (BIOIN, BIOL, BOT, ENT,  
GENET, IMIN, MA SC, MICRB, PALEO, ZOOL)
- Chemistry (CHEM)
- Earth and Atmospheric Sciences (EAS)
- Life and Environmental Sciences (ENCS, REN  
R)
- Mathematics (MATH, STAT)
- Medicine and Dentistry (ANAT, BIOCH, CELL,  
PHYSL)
- Physics (ASTRO, GEOPH, MA PH, PHYS)

**Secondary Education Major Teaching  
Subject: Chemistry**

**12 to 15 units but with no more than 9  
units in each of**

- Biological Sciences (BIOIN, BIOL, BOT, ENT,  
GENET, IMIN, MA SC, MICRB, PALEO, ZOOL)
- Chemistry (CHEM)
- Earth and Atmospheric Sciences (EAS)
- Life and Environmental Sciences (ENCS, REN  
R)
- Mathematics (MATH, STAT)
- Medicine and Dentistry (ANAT, BIOCH, CELL,  
PHYSL)

- Physics

**Secondary Education Major Teaching  
Subject: General Sciences**

**12 to 15 units but with no more than 9 units in each of**

- Astronomy
- Biochemistry
- Biological Sciences (including Botany, Forestry, Genetics, Microbiology, Soils and Zoology)
- Biophysics
- Chemistry
- Environmental Sciences (EAS [Faculty of Science], ENCS, REN-R)
- Mathematics
- Physics

**Secondary Education Major Teaching  
Subject: Physical Sciences**

**6 to 9 units but with no more than 9 units in each of**

- Astronomy
- Biochemistry
- Biological Sciences (including Botany, Forestry, Genetics, Microbiology, Soils and Zoology)
- Biophysics
- Chemistry
- Environmental Sciences (EAS [Faculty of Science], ENCS, REN-R)
- Mathematics
- Physics

- Physics (ASTRO, GEOPH, MA PH, PHYS)

**Secondary Education Major Teaching  
Subject: General Sciences**

**12 to 15 units but with no more than 9 units in each of**

- Biological Sciences (BIOIN, BIOL, BOT, ENT, GENET, IMIN, MA SC, MICRB, PALEO, ZOOL)
- Chemistry (CHEM)
- Earth and Atmospheric Sciences (EAS)
- Life and Environmental Sciences (ENCS, REN-R)
- Mathematics (MATH, STAT)
- Medicine and Dentistry (ANAT, BIOCH, CELL, PHYSL)
- Physics (ASTRO, GEOPH, MA PH, PHYS)

**Secondary Education Major Teaching  
Subject: Physical Sciences**

**6 to 9 units in**

- Biological Sciences (BIOIN, BIOL, BOT, ENT, GENET, IMIN, MA SC, MICRB, PALEO, ZOOL)
- Chemistry (CHEM)
- Earth and Atmospheric Sciences (EAS)
- Life and Environmental Sciences (ENCS, REN-R)
- Mathematics (MATH, STAT)
- Medicine and Dentistry (ANAT, BIOCH, CELL, PHYSL)
- Physics (ASTRO, GEOPH, MA PH, PHYS)

**Secondary Education Major Teaching**

**Subject: Physics**

**12 to 15 units but with no more than 9 units in each of**

- Astronomy
- Biochemistry
- Biological Sciences (including Botany, Forestry, Genetics, Microbiology, Soils and Zoology)
- Biophysics
- Chemistry
- Environmental Sciences (EAS [Faculty of Science], ENCS, REN-R)
- Mathematics
- Physics

**Secondary Education Major Teaching**

**Subject: Physics**

**12 to 15 units but with no more than 9 units in each of**

- Biological Sciences (BIOIN, BIOL, BOT, ENT, GENET, IMIN, MA SC, MICRB, PALEO, ZOOL)
- Chemistry (CHEM)
- Earth and Atmospheric Sciences (EAS)
- Life and Environmental Sciences (ENCS, REN R)
- Mathematics (MATH, STAT)
- Medicine and Dentistry (ANAT, BIOCH, CELL, PHYSL)
- Physics (ASTRO, GEOPH, MA PH, PHYS)

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.



Faculty (& Department or Academic Unit):	Faculty of Education
Contact Person:	Kent den Heyer
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	n/a

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Social Studies Major and Minor were reviewed upon proposal from the Social Justice & International Education Specialization (SJI) to update the Education SJI courses to include as curricular contributions to the Social Studies Major/Minor courses listings, in consultation with the Social Studies Subject Area Coordinator (Dr. Kent Den Hyer).

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47796&amp;returnto=12338">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=47796&amp;returnto=12338</a>	
Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<b>Secondary Education Minor Teaching Subject: Social Studies</b> <hr/> <b>Requirements</b> <hr/> <b>6 units in Canadian Studies</b> <hr/> Aboriginal/Indigenous/FNMI Studies in the context of North America strongly recommended, Canadian history, Canadian political science, Canadian economics, Francophone studies in a Canadian context.	<b>Secondary Education Minor Teaching Subject: Social Studies</b> <hr/> <b>Requirements</b> <hr/> <b>6 units in Canadian Studies</b> <hr/> Aboriginal/Indigenous/FNMI Studies in the context of North America strongly recommended, Canadian history, Canadian political science, Canadian economics, Francophone studies in a Canadian context.

<ul style="list-style-type: none"> <li>● <a href="#">EDSE 409 - Indigenous Curriculum and Pedagogy</a> (strongly recommended)</li> <li>● <a href="#">HIST 260 - Pre-Confederation Canada</a></li> <li>● <a href="#">HIST 261 - Post-Confederation Canada</a></li> <li>● <a href="#">HIST 359 - Canadian Environmental History</a></li> <li>● <a href="#">HIST 360 - Topics in Canadian History</a></li> <li>● HIST 362</li> <li>● <a href="#">HIST 365 - The Canadian West to 1885</a></li> <li>● <a href="#">HIST 368 - Histories of Indigenous Peoples and Kanata until 1870</a></li> <li>● <a href="#">HIST 369 - Histories of Indigenous Peoples and Kanata after 1870</a></li> <li>● <a href="#">HIST 370 - Making War in Canada</a></li> <li>● HIST 376</li> <li>● <a href="#">HIST 377 - Canada Since 1945</a></li> <li>● <a href="#">HIST 465 - History of Edmonton</a></li> <li>● <a href="#">NS 110 - Historical Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 111 - Contemporary Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 200 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 201 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 240 - Introduction to Indigenous Legal Issues</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 320 - Indigenous Politics and Diplomacy</a></li> <li>● <a href="#">NS 330 - Indigenous Economies</a></li> <li>● <a href="#">NS 335 - Indigenous Peoples and the Fur Trade</a></li> <li>● <a href="#">NS 340 - Indigenous Legal Systems</a></li> <li>● <a href="#">NS 345 - Governance in Indigenous Nations</a></li> <li>● <a href="#">NS 355 - Indigenous Knowledge and Oral Traditions</a></li> <li>● <a href="#">NS 361 - Race, Stereotypes, and Indigeneity</a></li> <li>● <a href="#">NS 362 - Indigenous Women</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">EDSE 409 - Indigenous Curriculum and Pedagogy</a> (strongly recommended)</li> <li>● <a href="#">HIST 260 - Pre-Confederation Canada</a></li> <li>● <a href="#">HIST 261 - Post-Confederation Canada</a></li> <li>● <a href="#">HIST 359 - Canadian Environmental History</a></li> <li>● <a href="#">HIST 360 - Topics in Canadian History</a></li> <li>● HIST 362</li> <li>● <a href="#">HIST 365 - The Canadian West to 1885</a></li> <li>● <a href="#">HIST 368 - Histories of Indigenous Peoples and Kanata until 1870</a></li> <li>● <a href="#">HIST 369 - Histories of Indigenous Peoples and Kanata after 1870</a></li> <li>● <a href="#">HIST 370 - Making War in Canada</a></li> <li>● HIST 376</li> <li>● <a href="#">HIST 377 - Canada Since 1945</a></li> <li>● <a href="#">HIST 465 - History of Edmonton</a></li> <li>● <a href="#">NS 110 - Historical Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 111 - Contemporary Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 200 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 201 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 240 - Introduction to Indigenous Legal Issues</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 320 - Indigenous Politics and Diplomacy</a></li> <li>● <a href="#">NS 330 - Indigenous Economies</a></li> <li>● <a href="#">NS 335 - Indigenous Peoples and the Fur Trade</a></li> <li>● <a href="#">NS 340 - Indigenous Legal Systems</a></li> <li>● <a href="#">NS 345 - Governance in Indigenous Nations</a></li> <li>● <a href="#">NS 355 - Indigenous Knowledge and Oral Traditions</a></li> <li>● <a href="#">NS 361 - Race, Stereotypes, and Indigeneity</a></li> <li>● <a href="#">NS 362 - Indigenous Women</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> </ul>
---	---

- [NS 376 - Indigenous Demography and Disease](#)
- [NS 440 - Indigenous Treaties and Agreements](#)
- [NS 441 - Indigenous Land Claims and Agreements](#)
- [NS 442 - Colonialism and the Criminal Justice System](#)
- [NS 445 - Community Development Processes](#)
- [NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing](#)
- NS 485
- [POL S 224 - Canadian Government](#)
- [POL S 225 - Canadian Politics](#)
- [POL S 323 - Elections in Canada](#)
- [POL S 324 - Topics in Canadian Politics](#)
- [POL S 327 - Indigenous Politics in Canada](#)
- [POL S 391 - Canadian Political Parties](#)
- [POL S 418 - Media and Politics in Canada](#)
- [POL S 419 - Politics of the Canadian Constitution](#)
- [POL S 423 - Canadian Federalism](#)
- [POL S 429 - Government and Politics of Alberta](#)
- [POL S 442 - The Canadian State and Identity Politics](#)
- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 420 - Law and Feminism in Canada](#)

**6 units Critical Issues**

Aboriginal/Indigenous/Native studies (strongly recommended), critical/intersectional studies of race/ethnicity (Canadian context recommended), Francophone studies, gender, migration studies, women/gender studies.

**Highly recommended courses:**

- [EDSE 409 - Indigenous Curriculum and Pedagogy](#)
- [HIST 252 - Slavery in the Americas](#)
- [HIST 352 - African American History from Slavery to Black Power](#)

- [NS 376 - Indigenous Demography and Disease](#)
- [NS 440 - Indigenous Treaties and Agreements](#)
- [NS 441 - Indigenous Land Claims and Agreements](#)
- [NS 442 - Colonialism and the Criminal Justice System](#)
- [NS 445 - Community Development Processes](#)
- [NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing](#)
- NS 485
- [POL S 224 - Canadian Government](#)
- [POL S 225 - Canadian Politics](#)
- [POL S 323 - Elections in Canada](#)
- [POL S 324 - Topics in Canadian Politics](#)
- [POL S 327 - Indigenous Politics in Canada](#)
- [POL S 391 - Canadian Political Parties](#)
- [POL S 418 - Media and Politics in Canada](#)
- [POL S 419 - Politics of the Canadian Constitution](#)
- [POL S 423 - Canadian Federalism](#)
- [POL S 429 - Government and Politics of Alberta](#)
- [POL S 442 - The Canadian State and Identity Politics](#)
- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 420 - Law and Feminism in Canada](#)

**6 units Critical Issues**

Aboriginal/Indigenous/Native studies (strongly recommended), critical/intersectional studies of race/ethnicity (Canadian context recommended), Francophone studies, gender, migration studies, women/gender studies.

**Highly recommended courses:**

- [EDPS 412 - Multicultural and Anti-racism Education](#)
- [EDPS 425 - Global Education](#)
- [EDSE 409 - Indigenous Curriculum and Pedagogy](#)

<ul style="list-style-type: none"> <li>● HIST 371</li> <li>● HIST 435</li> <li>● HIST 436</li> <li>● <a href="#">NS 161 - Countering Stereotypes of Indigenous Peoples</a></li> <li>● <a href="#">NS 361 - Race, Stereotypes, and Indigeneity</a></li> <li>● <a href="#">NS 362 - Indigenous Women</a></li> <li>● <a href="#">NS 440 - Indigenous Treaties and Agreements</a></li> <li>● <a href="#">NS 441 - Indigenous Land Claims and Agreements</a></li> <li>● <a href="#">NS 442 - Colonialism and the Criminal Justice System</a></li> <li>● <a href="#">NS 445 - Community Development Processes</a></li> <li>● <a href="#">NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing</a></li> <li>● NS 485</li> <li>● <a href="#">POL S 327 - Indigenous Politics in Canada</a></li> <li>● <a href="#">POL S 329 - Global Indigenous Politics</a></li> <li>● <a href="#">POL S 331 - Indigenous Feminist Politics</a></li> <li>● <a href="#">POL S 417 - Topics in Human Rights</a></li> <li>● <a href="#">POL S 425 - Ethnicity, Immigration and Social Policy</a></li> <li>● <a href="#">POL S 436 - Topics in Indigenous Politics</a></li> <li>● <a href="#">POL S 437 - Indigenous Political Thought</a></li> <li>● <a href="#">POL S 441 - Gender and Public Policy</a></li> <li>● <a href="#">POL S 442 - The Canadian State and Identity Politics</a></li> <li>● <a href="#">POL S 443 - Globalization, Ethnic Politics and the Nation-State</a></li> <li>● <a href="#">POL S 444 - Global Critical Race Theory</a></li> <li>● <a href="#">POL S 448 - Gender Politics and Mass Media</a></li> <li>● <a href="#">SOC 301 - Sociology of Gender</a></li> <li>● <a href="#">SOC 370 - Racism and Decolonization</a></li> <li>● <a href="#">WGS 101 - Representations of Girls and Women</a></li> <li>● <a href="#">WGS 102 - Gender and Social Justice</a></li> <li>● <a href="#">WGS 220 - Feminism and Popular Culture</a></li> <li>● <a href="#">WGS 244 - Critical Disability Studies</a></li> <li>● <a href="#">WGS 260 - Women and War</a></li> <li>● <a href="#">WGS 301 - History of Feminist Thought</a></li> <li>● <a href="#">WGS 315 - Histories of Gender</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">HIST 252 - Slavery in the Americas</a></li> <li>● <a href="#">HIST 352 - African American History from Slavery to Black Power</a></li> <li>● HIST 371</li> <li>● HIST 435</li> <li>● HIST 436</li> <li>● <a href="#">NS 161 - Countering Stereotypes of Indigenous Peoples</a></li> <li>● <a href="#">NS 361 - Race, Stereotypes, and Indigeneity</a></li> <li>● <a href="#">NS 362 - Indigenous Women</a></li> <li>● <a href="#">NS 440 - Indigenous Treaties and Agreements</a></li> <li>● <a href="#">NS 441 - Indigenous Land Claims and Agreements</a></li> <li>● <a href="#">NS 442 - Colonialism and the Criminal Justice System</a></li> <li>● <a href="#">NS 445 - Community Development Processes</a></li> <li>● <a href="#">NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing</a></li> <li>● NS 485</li> <li>● <a href="#">POL S 327 - Indigenous Politics in Canada</a></li> <li>● <a href="#">POL S 329 - Global Indigenous Politics</a></li> <li>● <a href="#">POL S 331 - Indigenous Feminist Politics</a></li> <li>● <a href="#">POL S 417 - Topics in Human Rights</a></li> <li>● <a href="#">POL S 425 - Ethnicity, Immigration and Social Policy</a></li> <li>● <a href="#">POL S 436 - Topics in Indigenous Politics</a></li> <li>● <a href="#">POL S 437 - Indigenous Political Thought</a></li> <li>● <a href="#">POL S 441 - Gender and Public Policy</a></li> <li>● <a href="#">POL S 442 - The Canadian State and Identity Politics</a></li> <li>● <a href="#">POL S 443 - Globalization, Ethnic Politics and the Nation-State</a></li> <li>● <a href="#">POL S 444 - Global Critical Race Theory</a></li> <li>● <a href="#">POL S 448 - Gender Politics and Mass Media</a></li> <li>● <a href="#">SOC 301 - Sociology of Gender</a></li> <li>● <a href="#">SOC 370 - Racism and Decolonization</a></li> <li>● <a href="#">WGS 101 - Representations of Girls and Women</a></li> <li>● <a href="#">WGS 102 - Gender and Social Justice</a></li> <li>● <a href="#">WGS 220 - Feminism and Popular Culture</a></li> <li>● <a href="#">WGS 244 - Critical Disability Studies</a></li> </ul>
---	---

- [WGS 321 - Feminism and Film](#)
- [WGS 332 - Contemporary Feminist Theory](#)
- [WGS 360 - Race, Class, and Gender](#)
- WGS 365
- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 390 - Environmental Feminisms and Social Justice](#)
- [WGS 420 - Law and Feminism in Canada](#)
- [WGS 480 - Indigenous Feminisms](#)

**Other acceptable courses:**

- 
- [ANTHR 110 - Gender, Age, and Culture](#)
  - [ANTHR 150 - Race and Racism](#)
  - [ANTHR 235 - Anthropology of Disability](#)
  - [ANTHR 310 - The Anthropology of Gender](#)
  - [ANTHR 350 - Kinship and Social Structure](#)
  - [ANTHR 420 - Anthropology and the Twentieth Century](#)
  - [CLASS 261 - Women, Gender and Sexuality in the Ancient World](#)
  - [ECON 251 - Indigenous Economics](#)
  - [EDPS 425 - Global Education: Issues and Strategies for Teachers](#)
  - HGP 341
  - [HIST 128 - War, Revolution, and Society](#)
  - [HIST 179 - Sex Work and Intimate Labour in Global History](#)
  - [HIST 205 - Capitalism](#)
  - HIST 206
  - [HIST 287 - The Chinese in Canada and Canadians in China](#)
  - [HIST 308 - Sexuality and Gender in Modern Europe](#)
  - [HIST 339 - The Modern British Empire and the Commonwealth Experience](#)
  - [HIST 351 - History of Women in the United States](#)
  - [HIST 368 - Histories of Indigenous Peoples and Kanata until 1870](#)
  - [HIST 369 - Histories of Indigenous Peoples and Kanata after 1870](#)
  - [HIST 373 - Peasants, Slaves and Workers](#)

- [WGS 260 - Women and War](#)
- [WGS 301 - History of Feminist Thought](#)
- [WGS 315 - Histories of Gender](#)
- [WGS 321 - Feminism and Film](#)
- [WGS 332 - Contemporary Feminist Theory](#)
- [WGS 360 - Race, Class, and Gender](#)
- WGS 365
- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 390 - Environmental Feminisms and Social Justice](#)
- [WGS 420 - Law and Feminism in Canada](#)
- [WGS 480 - Indigenous Feminisms](#)

**Other acceptable courses:**

- 
- [ANTHR 110 - Gender, Age, and Culture](#)
  - [ANTHR 150 - Race and Racism](#)
  - [ANTHR 235 - Anthropology of Disability](#)
  - [ANTHR 310 - The Anthropology of Gender](#)
  - [ANTHR 350 - Kinship and Social Structure](#)
  - [ANTHR 420 - Anthropology and the Twentieth Century](#)
  - [CLASS 261 - Women, Gender and Sexuality in the Ancient World](#)
  - [ECON 251 - Indigenous Economics](#)
  - [EDPS 360 - Society and Education](#)
  - HGP 341
  - [HIST 128 - War, Revolution, and Society](#)
  - [HIST 179 - Sex Work and Intimate Labour in Global History](#)
  - [HIST 205 - Capitalism](#)
  - HIST 206
  - [HIST 287 - The Chinese in Canada and Canadians in China](#)
  - [HIST 308 - Sexuality and Gender in Modern Europe](#)
  - [HIST 339 - The Modern British Empire and the Commonwealth Experience](#)
  - [HIST 351 - History of Women in the United States](#)
  - [HIST 368 - Histories of Indigenous Peoples and Kanata until 1870](#)

<ul style="list-style-type: none"> <li>● HIST 497</li> <li>● <a href="#">MLCS 231 - Language and Power</a></li> <li>● <a href="#">NS 111 - Contemporary Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 200 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 201 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> <li>● <a href="#">NS 376 - Indigenous Demography and Disease</a></li> <li>● <a href="#">NS 435 - Management of Indigenous Natural Resources</a></li> <li>● <a href="#">PHIL 209 - The Human Person: Philosophical Issues</a></li> <li>● <a href="#">PHIL 270 - Political Philosophy</a></li> <li>● <a href="#">PHIL 272 - Feminist Philosophy</a></li> <li>● <a href="#">PHIL 368 - Topics in Social Justice</a></li> <li>● <a href="#">PHIL 372 - Philosophy of Sexuality</a></li> <li>● <a href="#">POL S 250 - The Politics of Gender</a></li> <li>● <a href="#">POL S 305 - Contemporary Political Theory</a></li> <li>● <a href="#">POL S 351 - Topics in Gender and Politics</a></li> <li>● <a href="#">POL S 455 - Topics in Gender and Politics</a></li> <li>● <a href="#">POL S 464 - Gender, Conflict and Security</a></li> <li>● <a href="#">RELIG 277 - Women in World Religions</a></li> <li>● <a href="#">SOC 203 - Social Problems</a></li> <li>● <a href="#">SOC 251 - Population and Society</a></li> <li>● <a href="#">SOC 260 - Inequality and Social Stratification</a></li> <li>● <a href="#">SOC 323 - Sociology of Policing</a></li> <li>● <a href="#">WGS 250 - Gender and Science</a></li> <li>● WGS 255</li> <li>● <a href="#">WGS 270 - Feminism and Sexualities</a></li> <li>● WGS 310</li> <li>● <a href="#">WGS 431 - Feminism and Sexual Assault</a></li> <li>● <a href="#">WGS 440 - Body Politics</a></li> <li>● <a href="#">WGS 455 - Religion, Spirituality, and Social Justice</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">HIST 369 - Histories of Indigenous Peoples and Kanata after 1870</a></li> <li>● <a href="#">HIST 373 - Peasants, Slaves and Workers</a></li> <li>● HIST 497</li> <li>● <a href="#">MLCS 231 - Language and Power</a></li> <li>● <a href="#">NS 111 - Contemporary Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 200 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 201 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> <li>● <a href="#">NS 376 - Indigenous Demography and Disease</a></li> <li>● <a href="#">NS 435 - Management of Indigenous Natural Resources</a></li> <li>● <a href="#">PHIL 209 - The Human Person: Philosophical Issues</a></li> <li>● <a href="#">PHIL 270 - Political Philosophy</a></li> <li>● <a href="#">PHIL 272 - Feminist Philosophy</a></li> <li>● <a href="#">PHIL 368 - Topics in Social Justice</a></li> <li>● <a href="#">PHIL 372 - Philosophy of Sexuality</a></li> <li>● <a href="#">POL S 250 - The Politics of Gender</a></li> <li>● <a href="#">POL S 305 - Contemporary Political Theory</a></li> <li>● <a href="#">POL S 351 - Topics in Gender and Politics</a></li> <li>● <a href="#">POL S 455 - Topics in Gender and Politics</a></li> <li>● <a href="#">POL S 464 - Gender, Conflict and Security</a></li> <li>● <a href="#">RELIG 277 - Women in World Religions</a></li> <li>● <a href="#">SOC 203 - Social Problems</a></li> <li>● <a href="#">SOC 251 - Population and Society</a></li> <li>● <a href="#">SOC 260 - Inequality and Social Stratification</a></li> <li>● <a href="#">SOC 323 - Sociology of Policing</a></li> <li>● <a href="#">WGS 250 - Gender and Science</a></li> <li>● WGS 255</li> <li>● <a href="#">WGS 270 - Feminism and Sexualities</a></li> <li>● WGS 310</li> <li>● <a href="#">WGS 431 - Feminism and Sexual Assault</a></li> </ul>
---	---



- [WGS 460 - Masculinities](#)

### 6 units World History Content

(i.e., covering more than one country).

- [CLASS 110 - The Ancient World](#)
- [CLASS 261 - Women, Gender and Sexuality in the Ancient World](#)
- [HIST 104 - The Atomic Age: The World After 1945](#)
- [HIST 110 - The Pre-Modern World](#)
- [HIST 111 - The Early Modern World](#)
- [HIST 112 - The Modern World](#)
- [HIST 114 - The History of the World in the Last 10 Years](#)
- [HIST 115 - Technology and History](#)
- [HIST 116 - The Emergence of the Atlantic World](#)
- [HIST 121 - Topics in Global History](#)
- [HIST 123 - Plague: Disease and Epidemics in History](#)
- [HIST 124 - History of Sexuality in the Americas](#)
- [HIST 127 - Drugs in Modern Global History](#)
- [HIST 128 - War, Revolution, and Society](#)
- [HIST 130 - Democracy, War and Consumer Capitalism: The Making of Modern Europe](#)
- [HIST 134 - Global History of Alchemy: Quests for Gold, Power, and Immortality](#)
- [HIST 179 - Sex Work and Intimate Labour in Global History](#)
- [HIST 191 - Video Games, History, and Storytelling](#)
- [HIST 195 - Warfare Since 1789: From Mass Armies to Thermonuclear War](#)
- [HIST 205 - Capitalism](#)
- [HIST 207 - From Constantine to the Cathedral: Europe in the Middle Ages](#)
- [HIST 210 - Europe in the 19th and 20th Centuries](#)

- [WGS 440 - Body Politics](#)
- [WGS 455 - Religion, Spirituality, and Social Justice](#)
- [WGS 460 - Masculinities](#)

### 6 units World History Content

(i.e., covering more than one country).

- [CLASS 110 - The Ancient World](#)
- [CLASS 261 - Women, Gender and Sexuality in the Ancient World](#)
- [HIST 104 - The Atomic Age: The World After 1945](#)
- [HIST 110 - The Pre-Modern World](#)
- [HIST 111 - The Early Modern World](#)
- [HIST 112 - The Modern World](#)
- [HIST 114 - The History of the World in the Last 10 Years](#)
- [HIST 115 - Technology and History](#)
- [HIST 116 - The Emergence of the Atlantic World](#)
- [HIST 121 - Topics in Global History](#)
- [HIST 123 - Plague: Disease and Epidemics in History](#)
- [HIST 124 - History of Sexuality in the Americas](#)
- [HIST 127 - Drugs in Modern Global History](#)
- [HIST 128 - War, Revolution, and Society](#)
- [HIST 130 - Democracy, War and Consumer Capitalism: The Making of Modern Europe](#)
- [HIST 134 - Global History of Alchemy: Quests for Gold, Power, and Immortality](#)
- [HIST 179 - Sex Work and Intimate Labour in Global History](#)
- [HIST 191 - Video Games, History, and Storytelling](#)
- [HIST 195 - Warfare Since 1789: From Mass Armies to Thermonuclear War](#)
- [HIST 205 - Capitalism](#)
- [HIST 207 - From Constantine to the Cathedral: Europe in the Middle Ages](#)
- [HIST 210 - Europe in the 19th and 20th Centuries](#)

<ul style="list-style-type: none"> <li>● <a href="#">HIST 212 - Early Modern Europe</a></li> <li>● <a href="#">HIST 220 - The Making of the Modern Middle East</a></li> <li>● <a href="#">HIST 237 - The Pacific World Since 1500</a></li> <li>● <a href="#">HIST 241 - Colonial Latin America</a></li> <li>● <a href="#">HIST 242 - Modern Latin America</a></li> <li>● <a href="#">HIST 243 - The Golden Age of Islam: History of the Muslim World to the 16th Century</a></li> <li>● <a href="#">HIST 246 - Africa from Medieval to Modern Times</a></li> <li>● <a href="#">HIST 247 - Africa in the 20th and 21st Centuries: From Colonial Rule to Modern Nations</a></li> <li>● <a href="#">HIST 251 - From the End of Slavery to the Present: American History Since 1865</a></li> <li>● <a href="#">HIST 252 - Slavery in the Americas</a></li> <li>● <a href="#">HIST 272 - Religion in History</a></li> <li>● <a href="#">HIST 280 - East Asia to 1500</a></li> <li>● <a href="#">HIST 281 - East Asia from 1500</a></li> <li>● <a href="#">HIST 285 - China and the West</a></li> <li>● <a href="#">HIST 287 - The Chinese in Canada and Canadians in China</a></li> <li>● <a href="#">HIST 291 - World War One</a></li> <li>● <a href="#">HIST 293 - History of Science, Technology and Medicine: Key Moments</a></li> <li>● <a href="#">HIST 294 - An Introduction to the History of Sciences, Technology, and Medicine</a></li> <li>● <a href="#">HIST 295 - 20th-Century Warfare</a></li> <li>● <a href="#">HIST 296 - World War Two</a></li> <li>● <a href="#">HIST 297 - The History of Christianity</a></li> <li>● <a href="#">HIST 301 - Europe in the Age of Total War, 1890-1945</a></li> <li>● <a href="#">HIST 308 - Sexuality and Gender in Modern Europe</a></li> <li>● HIST 312</li> <li>● <a href="#">HIST 323 - The Middle East in the Making: 1300-1920</a></li> <li>● <a href="#">HIST 326 - Topics in History at the Movies</a></li> <li>● <a href="#">HIST 339 - The Modern British Empire and the Commonwealth Experience</a></li> <li>● HIST 342</li> <li>● HIST 348</li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">HIST 212 - Early Modern Europe</a></li> <li>● <a href="#">HIST 220 - The Making of the Modern Middle East</a></li> <li>● <a href="#">HIST 237 - The Pacific World Since 1500</a></li> <li>● <a href="#">HIST 241 - Colonial Latin America</a></li> <li>● <a href="#">HIST 242 - Modern Latin America</a></li> <li>● <a href="#">HIST 243 - The Golden Age of Islam: History of the Muslim World to the 16th Century</a></li> <li>● <a href="#">HIST 246 - Africa from Medieval to Modern Times</a></li> <li>● <a href="#">HIST 247 - Africa in the 20th and 21st Centuries: From Colonial Rule to Modern Nations</a></li> <li>● <a href="#">HIST 251 - From the End of Slavery to the Present: American History Since 1865</a></li> <li>● <a href="#">HIST 252 - Slavery in the Americas</a></li> <li>● <a href="#">HIST 272 - Religion in History</a></li> <li>● <a href="#">HIST 280 - East Asia to 1500</a></li> <li>● <a href="#">HIST 281 - East Asia from 1500</a></li> <li>● <a href="#">HIST 285 - China and the West</a></li> <li>● <a href="#">HIST 287 - The Chinese in Canada and Canadians in China</a></li> <li>● <a href="#">HIST 291 - World War One</a></li> <li>● <a href="#">HIST 293 - History of Science, Technology and Medicine: Key Moments</a></li> <li>● <a href="#">HIST 294 - An Introduction to the History of Sciences, Technology, and Medicine</a></li> <li>● <a href="#">HIST 295 - 20th-Century Warfare</a></li> <li>● <a href="#">HIST 296 - World War Two</a></li> <li>● <a href="#">HIST 297 - The History of Christianity</a></li> <li>● <a href="#">HIST 301 - Europe in the Age of Total War, 1890-1945</a></li> <li>● <a href="#">HIST 308 - Sexuality and Gender in Modern Europe</a></li> <li>● HIST 312</li> <li>● <a href="#">HIST 323 - The Middle East in the Making: 1300-1920</a></li> <li>● <a href="#">HIST 326 - Topics in History at the Movies</a></li> <li>● <a href="#">HIST 339 - The Modern British Empire and the Commonwealth Experience</a></li> <li>● HIST 342</li> <li>● HIST 348</li> </ul>
--	--



<ul style="list-style-type: none"> <li>● <a href="#">HIST 373 - Peasants, Slaves and Workers</a></li> <li>● <a href="#">HIST 379 - Religion in Modern Europe</a></li> <li>● <a href="#">HIST 391 - History of Technology</a></li> <li>● <a href="#">HIST 395 - The Early British Empire</a></li> <li>● HIST 397</li> <li>● <a href="#">HIST 398 - History of Science II</a></li> <li>● HIST 435</li> <li>● HIST 436</li> <li>● <a href="#">HIST 442 - Topics in Latin American History Since 1850</a></li> <li>● <a href="#">HIST 444 - Topics in Transnational History</a></li> <li>● <a href="#">HIST 446 - Themes and Issues in African History</a></li> <li>● <a href="#">HIST 493 - War and Society in the Modern World</a></li> </ul> <p><b>Notes</b></p> <hr/> <p>Students must take <a href="#">EDSE 374</a> which is normally offered in both the Fall and Winter Terms.</p>	<ul style="list-style-type: none"> <li>● <a href="#">HIST 373 - Peasants, Slaves and Workers</a></li> <li>● <a href="#">HIST 379 - Religion in Modern Europe</a></li> <li>● <a href="#">HIST 391 - History of Technology</a></li> <li>● <a href="#">HIST 395 - The Early British Empire</a></li> <li>● HIST 397</li> <li>● <a href="#">HIST 398 - History of Science II</a></li> <li>● HIST 435</li> <li>● HIST 436</li> <li>● <a href="#">HIST 442 - Topics in Latin American History Since 1850</a></li> <li>● <a href="#">HIST 444 - Topics in Transnational History</a></li> <li>● <a href="#">HIST 446 - Themes and Issues in African History</a></li> <li>● <a href="#">HIST 493 - War and Society in the Modern World</a></li> </ul> <p><b>Notes</b></p> <hr/> <p>Students must take <a href="#">EDSE 374</a> which is normally offered in both the Fall and Winter Terms.</p>
<p><b>Secondary Education Major Teaching Subject: Social Studies</b></p> <hr/> <p><b>Requirements</b></p> <hr/> <p><b>3 units in Canadian History</b></p> <hr/> <ul style="list-style-type: none"> <li>● <a href="#">HIST 260 - Pre-Confederation Canada</a></li> <li>● <a href="#">HIST 261 - Post-Confederation Canada</a></li> <li>● <a href="#">HIST 359 - Canadian Environmental History</a></li> <li>● <a href="#">HIST 360 - Topics in Canadian History</a></li> <li>● HIST 362</li> <li>● <a href="#">HIST 365 - The Canadian West to 1885</a></li> <li>● HIST 366</li> <li>● <a href="#">HIST 368 - Histories of Indigenous Peoples and Kanata until 1870</a></li> </ul>	<p><b>Secondary Education Major Teaching Subject: Social Studies</b></p> <hr/> <p><b>Requirements</b></p> <hr/> <p><b>3 units in Canadian History</b></p> <hr/> <ul style="list-style-type: none"> <li>● <a href="#">HIST 260 - Pre-Confederation Canada</a></li> <li>● <a href="#">HIST 261 - Post-Confederation Canada</a></li> <li>● <a href="#">HIST 359 - Canadian Environmental History</a></li> <li>● <a href="#">HIST 360 - Topics in Canadian History</a></li> <li>● HIST 362</li> <li>● <a href="#">HIST 365 - The Canadian West to 1885</a></li> <li>● HIST 366</li> <li>● <a href="#">HIST 368 - Histories of Indigenous Peoples and Kanata until 1870</a></li> </ul>

- [HIST 369 - Histories of Indigenous Peoples and Kanata after 1870](#)
- [HIST 370 - Making War in Canada](#)
- HIST 371
- HIST 376
- [HIST 377 - Canada Since 1945](#)
- [HIST 465 - History of Edmonton](#)
- [NS 110 - Historical Perspectives in Indigenous Studies](#)
- [NS 314 - History of First Nations of Western Canada](#)
- [NS 335 - Indigenous Peoples and the Fur Trade](#)

### 3 units in Canadian Studies

Canadian society; Francophone studies; Native/Indigenous/FNMI studies.

- [ANTHR 256 - Alberta Archaeology](#)
- [EDSE 409 - Indigenous Curriculum and Pedagogy](#) (strongly recommended)
- [HIST 260 - Pre-Confederation Canada](#)
- [HIST 261 - Post-Confederation Canada](#)
- [HIST 359 - Canadian Environmental History](#)
- [HIST 360 - Topics in Canadian History](#)
- HIST 362
- [HIST 365 - The Canadian West to 1885](#)
- [HIST 368 - Histories of Indigenous Peoples and Kanata until 1870](#)
- [HIST 369 - Histories of Indigenous Peoples and Kanata after 1870](#)
- [HIST 370 - Making War in Canada](#)
- HIST 376
- [HIST 377 - Canada Since 1945](#)
- [HIST 465 - History of Edmonton](#)
- [NS 110 - Historical Perspectives in Indigenous Studies](#)
- [NS 111 - Contemporary Perspectives in Indigenous Studies](#)
- [NS 200 - Indigenous | Canada: Looking Forward/Looking Back](#)
- [NS 201 - Indigenous | Canada: Looking Forward/Looking Back](#)

- [HIST 369 - Histories of Indigenous Peoples and Kanata after 1870](#)
- [HIST 370 - Making War in Canada](#)
- HIST 371
- HIST 376
- [HIST 377 - Canada Since 1945](#)
- [HIST 465 - History of Edmonton](#)
- [NS 110 - Historical Perspectives in Indigenous Studies](#)
- [NS 314 - History of First Nations of Western Canada](#)
- [NS 335 - Indigenous Peoples and the Fur Trade](#)

### 3 units in Canadian Studies

Canadian society; Francophone studies; Native/Indigenous/FNMI studies.

- [ANTHR 256 - Alberta Archaeology](#)
- [EDSE 409 - Indigenous Curriculum and Pedagogy](#) (strongly recommended)
- [HIST 260 - Pre-Confederation Canada](#)
- [HIST 261 - Post-Confederation Canada](#)
- [HIST 359 - Canadian Environmental History](#)
- [HIST 360 - Topics in Canadian History](#)
- HIST 362
- [HIST 365 - The Canadian West to 1885](#)
- [HIST 368 - Histories of Indigenous Peoples and Kanata until 1870](#)
- [HIST 369 - Histories of Indigenous Peoples and Kanata after 1870](#)
- [HIST 370 - Making War in Canada](#)
- HIST 376
- [HIST 377 - Canada Since 1945](#)
- [HIST 465 - History of Edmonton](#)
- [NS 110 - Historical Perspectives in Indigenous Studies](#)
- [NS 111 - Contemporary Perspectives in Indigenous Studies](#)
- [NS 200 - Indigenous | Canada: Looking Forward/Looking Back](#)
- [NS 201 - Indigenous | Canada: Looking Forward/Looking Back](#)

<ul style="list-style-type: none"> <li>● <a href="#">NS 240 - Introduction to Indigenous Legal Issues</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 320 - Indigenous Politics and Diplomacy</a></li> <li>● <a href="#">NS 330 - Indigenous Economies</a></li> <li>● <a href="#">NS 335 - Indigenous Peoples and the Fur Trade</a></li> <li>● <a href="#">NS 340 - Indigenous Legal Systems</a></li> <li>● <a href="#">NS 345 - Governance in Indigenous Nations</a></li> <li>● <a href="#">NS 355 - Indigenous Knowledge and Oral Traditions</a></li> <li>● <a href="#">NS 361 - Race, Stereotypes, and Indigeneity</a></li> <li>● <a href="#">NS 362 - Indigenous Women</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> <li>● <a href="#">NS 376 - Indigenous Demography and Disease</a></li> <li>● <a href="#">NS 440 - Indigenous Treaties and Agreements</a></li> <li>● <a href="#">NS 441 - Indigenous Land Claims and Agreements</a></li> <li>● <a href="#">NS 442 - Colonialism and the Criminal Justice System</a></li> <li>● <a href="#">NS 445 - Community Development Processes</a></li> <li>● <a href="#">NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing</a></li> <li>● <a href="#">POL S 224 - Canadian Government</a></li> <li>● <a href="#">POL S 225 - Canadian Politics</a></li> <li>● <a href="#">POL S 323 - Elections in Canada</a></li> <li>● <a href="#">POL S 324 - Topics in Canadian Politics</a></li> <li>● <a href="#">POL S 327 - Indigenous Politics in Canada</a></li> <li>● <a href="#">POL S 391 - Canadian Political Parties</a></li> <li>● <a href="#">POL S 418 - Media and Politics in Canada</a></li> <li>● <a href="#">POL S 419 - Politics of the Canadian Constitution</a></li> <li>● <a href="#">POL S 429 - Government and Politics of Alberta</a></li> <li>● <a href="#">POL S 442 - The Canadian State and Identity Politics</a></li> <li>● <a href="#">WGS 380 - Canadian Feminist Activisms</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">NS 240 - Introduction to Indigenous Legal Issues</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 320 - Indigenous Politics and Diplomacy</a></li> <li>● <a href="#">NS 330 - Indigenous Economies</a></li> <li>● <a href="#">NS 335 - Indigenous Peoples and the Fur Trade</a></li> <li>● <a href="#">NS 340 - Indigenous Legal Systems</a></li> <li>● <a href="#">NS 345 - Governance in Indigenous Nations</a></li> <li>● <a href="#">NS 355 - Indigenous Knowledge and Oral Traditions</a></li> <li>● <a href="#">NS 361 - Race, Stereotypes, and Indigeneity</a></li> <li>● <a href="#">NS 362 - Indigenous Women</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> <li>● <a href="#">NS 376 - Indigenous Demography and Disease</a></li> <li>● <a href="#">NS 440 - Indigenous Treaties and Agreements</a></li> <li>● <a href="#">NS 441 - Indigenous Land Claims and Agreements</a></li> <li>● <a href="#">NS 442 - Colonialism and the Criminal Justice System</a></li> <li>● <a href="#">NS 445 - Community Development Processes</a></li> <li>● <a href="#">NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing</a></li> <li>● <a href="#">POL S 224 - Canadian Government</a></li> <li>● <a href="#">POL S 225 - Canadian Politics</a></li> <li>● <a href="#">POL S 323 - Elections in Canada</a></li> <li>● <a href="#">POL S 324 - Topics in Canadian Politics</a></li> <li>● <a href="#">POL S 327 - Indigenous Politics in Canada</a></li> <li>● <a href="#">POL S 391 - Canadian Political Parties</a></li> <li>● <a href="#">POL S 418 - Media and Politics in Canada</a></li> <li>● <a href="#">POL S 419 - Politics of the Canadian Constitution</a></li> <li>● <a href="#">POL S 429 - Government and Politics of Alberta</a></li> <li>● <a href="#">POL S 442 - The Canadian State and Identity Politics</a></li> </ul>
---	--

- [WGS 420 - Law and Feminism in Canada](#)

**3 units in Critical Issues**

Aboriginal/Indigenous/Native studies (strongly recommended), critical/intersectional studies of race/ethnicity (Canadian context recommended), Francophone studies, gender, migration studies, women/gender studies.

Highly recommended courses

- [ANTHR 150 - Race and Racism](#)
- [ANTHR 235 - Anthropology of Disability](#)
- [ANTHR 420 - Anthropology and the Twentieth Century](#)
- [EDSE 409 - Indigenous Curriculum and Pedagogy](#)
- [HIST 252 - Slavery in the Americas](#)
- [HIST 352 - African American History from Slavery to Black Power](#)
- HIST 371
- HIST 435
- HIST 436
- [NS 161 - Countering Stereotypes of Indigenous Peoples](#)
- [NS 361 - Race, Stereotypes, and Indigeneity](#)
- [NS 362 - Indigenous Women](#)
- [NS 440 - Indigenous Treaties and Agreements](#)
- [NS 441 - Indigenous Land Claims and Agreements](#)
- [NS 442 - Colonialism and the Criminal Justice System](#)
- [NS 445 - Community Development Processes](#)
- [NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing](#)
- NS 485
- [PHIL 272 - Feminist Philosophy](#)
- [POL S 327 - Indigenous Politics in Canada](#)
- [POL S 329 - Global Indigenous Politics](#)
- [POL S 331 - Indigenous Feminist Politics](#)
- [POL S 417 - Topics in Human Rights](#)

- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 420 - Law and Feminism in Canada](#)

**3 units in Critical Issues**

Aboriginal/Indigenous/Native studies (strongly recommended), critical/intersectional studies of race/ethnicity (Canadian context recommended), Francophone studies, gender, migration studies, women/gender studies.

Highly recommended courses

- [ANTHR 150 - Race and Racism](#)
- [ANTHR 235 - Anthropology of Disability](#)
- [ANTHR 420 - Anthropology and the Twentieth Century](#)
- [EDPS 412 - Multicultural and Anti-racism Education](#)
- [EDPS 425 - Global Education](#)
- [EDSE 409 - Indigenous Curriculum and Pedagogy](#)
- [HIST 252 - Slavery in the Americas](#)
- [HIST 352 - African American History from Slavery to Black Power](#)
- HIST 371
- HIST 435
- HIST 436
- [NS 161 - Countering Stereotypes of Indigenous Peoples](#)
- [NS 361 - Race, Stereotypes, and Indigeneity](#)
- [NS 362 - Indigenous Women](#)
- [NS 440 - Indigenous Treaties and Agreements](#)
- [NS 441 - Indigenous Land Claims and Agreements](#)
- [NS 442 - Colonialism and the Criminal Justice System](#)
- [NS 445 - Community Development Processes](#)
- [NS 476 - Perspectives on Indigenous Peoples Health and Wellbeing](#)
- NS 485
- [PHIL 272 - Feminist Philosophy](#)
- [POL S 327 - Indigenous Politics in Canada](#)

- [POL S 425 - Ethnicity, Immigration and Social Policy](#)
- [POL S 436 - Topics in Indigenous Politics](#)
- [POL S 437 - Indigenous Political Thought](#)
- [POL S 441 - Gender and Public Policy](#)
- [POL S 442 - The Canadian State and Identity Politics](#)
- [POL S 443 - Globalization, Ethnic Politics and the Nation-State](#)
- [POL S 444 - Global Critical Race Theory](#)
- [POL S 448 - Gender Politics and Mass Media](#)
- [SOC 301 - Sociology of Gender](#)
- [SOC 370 - Racism and Decolonization](#)
- [WGS 101 - Representations of Girls and Women](#)
- [WGS 102 - Gender and Social Justice](#)
- [WGS 220 - Feminism and Popular Culture](#)
- [WGS 244 - Critical Disability Studies](#)
- [WGS 260 - Women and War](#)
- [WGS 301 - History of Feminist Thought](#)
- [WGS 315 - Histories of Gender](#)
- [WGS 321 - Feminism and Film](#)
- [WGS 332 - Contemporary Feminist Theory](#)
- [WGS 360 - Race, Class, and Gender](#)
- WGS 365
- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 390 - Environmental Feminisms and Social Justice](#)
- [WGS 420 - Law and Feminism in Canada](#)
- [WGS 480 - Indigenous Feminisms](#)

- [POL S 329 - Global Indigenous Politics](#)
- [POL S 331 - Indigenous Feminist Politics](#)
- [POL S 417 - Topics in Human Rights](#)
- [POL S 425 - Ethnicity, Immigration and Social Policy](#)
- [POL S 436 - Topics in Indigenous Politics](#)
- [POL S 437 - Indigenous Political Thought](#)
- [POL S 441 - Gender and Public Policy](#)
- [POL S 442 - The Canadian State and Identity Politics](#)
- [POL S 443 - Globalization, Ethnic Politics and the Nation-State](#)
- [POL S 444 - Global Critical Race Theory](#)
- [POL S 448 - Gender Politics and Mass Media](#)
- [SOC 301 - Sociology of Gender](#)
- [SOC 370 - Racism and Decolonization](#)
- [WGS 101 - Representations of Girls and Women](#)
- [WGS 102 - Gender and Social Justice](#)
- [WGS 220 - Feminism and Popular Culture](#)
- [WGS 244 - Critical Disability Studies](#)
- [WGS 260 - Women and War](#)
- [WGS 301 - History of Feminist Thought](#)
- [WGS 315 - Histories of Gender](#)
- [WGS 321 - Feminism and Film](#)
- [WGS 332 - Contemporary Feminist Theory](#)
- [WGS 360 - Race, Class, and Gender](#)
- WGS 365
- [WGS 380 - Canadian Feminist Activisms](#)
- [WGS 390 - Environmental Feminisms and Social Justice](#)
- [WGS 420 - Law and Feminism in Canada](#)
- [WGS 480 - Indigenous Feminisms](#)

**Other acceptable courses**

- 
- [ANTHR 110 - Gender, Age, and Culture](#)
  - [ANTHR 310 - The Anthropology of Gender](#)
  - [ANTHR 350 - Kinship and Social Structure](#)

**Other acceptable courses**

- 
- [ANTHR 110 - Gender, Age, and Culture](#)
  - [ANTHR 310 - The Anthropology of Gender](#)
  - [ANTHR 350 - Kinship and Social Structure](#)

<ul style="list-style-type: none"> <li>● <a href="#">CLASS 261 - Women, Gender and Sexuality in the Ancient World</a></li> <li>● <a href="#">ECON 251 - Indigenous Economics</a></li> <li>● <a href="#">HGEO 341 - Social and Cultural Geography</a></li> <li>● <a href="#">HIST 124 - History of Sexuality in the Americas</a></li> <li>● <a href="#">HIST 128 - War, Revolution, and Society</a></li> <li>● <a href="#">HIST 179 - Sex Work and Intimate Labour in Global History</a></li> <li>● <a href="#">HIST 205 - Capitalism</a></li> <li>● HIST 206</li> <li>● <a href="#">HIST 287 - The Chinese in Canada and Canadians in China</a></li> <li>● <a href="#">HIST 308 - Sexuality and Gender in Modern Europe</a></li> <li>● <a href="#">HIST 339 - The Modern British Empire and the Commonwealth Experience</a></li> <li>● <a href="#">HIST 351 - History of Women in the United States</a></li> <li>● <a href="#">HIST 368 - Histories of Indigenous Peoples and Kanata until 1870</a></li> <li>● <a href="#">HIST 369 - Histories of Indigenous Peoples and Kanata after 1870</a></li> <li>● <a href="#">HIST 373 - Peasants, Slaves and Workers</a></li> <li>● HIST 497</li> <li>● <a href="#">MLCS 231 - Language and Power</a></li> <li>● <a href="#">NS 111 - Contemporary Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 200 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 201 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> <li>● <a href="#">NS 376 - Indigenous Demography and Disease</a></li> <li>● <a href="#">NS 435 - Management of Indigenous Natural Resources</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">CLASS 261 - Women, Gender and Sexuality in the Ancient World</a></li> <li>● <a href="#">ECON 251 - Indigenous Economics</a></li> <li>● <a href="#">HGEO 341 - Social and Cultural Geography</a></li> <li>● <a href="#">HIST 124 - History of Sexuality in the Americas</a></li> <li>● <a href="#">HIST 128 - War, Revolution, and Society</a></li> <li>● <a href="#">HIST 179 - Sex Work and Intimate Labour in Global History</a></li> <li>● <a href="#">HIST 205 - Capitalism</a></li> <li>● HIST 206</li> <li>● <a href="#">HIST 287 - The Chinese in Canada and Canadians in China</a></li> <li>● <a href="#">HIST 308 - Sexuality and Gender in Modern Europe</a></li> <li>● <a href="#">HIST 339 - The Modern British Empire and the Commonwealth Experience</a></li> <li>● <a href="#">HIST 351 - History of Women in the United States</a></li> <li>● <a href="#">HIST 368 - Histories of Indigenous Peoples and Kanata until 1870</a></li> <li>● <a href="#">HIST 369 - Histories of Indigenous Peoples and Kanata after 1870</a></li> <li>● <a href="#">HIST 373 - Peasants, Slaves and Workers</a></li> <li>● HIST 497</li> <li>● <a href="#">MLCS 231 - Language and Power</a></li> <li>● <a href="#">NS 111 - Contemporary Perspectives in Indigenous Studies</a></li> <li>● <a href="#">NS 200 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 201 - Indigenous   Canada: Looking Forward/Looking Back</a></li> <li>● <a href="#">NS 300 - Traditional Cultural Foundations I</a></li> <li>● <a href="#">NS 314 - History of First Nations of Western Canada</a></li> <li>● <a href="#">NS 370 - The Métis: The Emergence of a People</a></li> <li>● <a href="#">NS 372 - Métis Politics</a></li> <li>● <a href="#">NS 376 - Indigenous Demography and Disease</a></li> <li>● <a href="#">NS 435 - Management of Indigenous Natural Resources</a></li> </ul>
---	---

- [PHIL 209 - The Human Person: Philosophical Issues](#)
- [PHIL 270 - Political Philosophy](#)
- [PHIL 368 - Topics in Social Justice](#)
- [PHIL 372 - Philosophy of Sexuality](#)
- [POL S 250 - The Politics of Gender](#)
- [POL S 305 - Contemporary Political Theory](#)
- [POL S 351 - Topics in Gender and Politics](#)
- [POL S 455 - Topics in Gender and Politics](#)
- [POL S 464 - Gender, Conflict and Security](#)
- [RELIG 277 - Women in World Religions](#)
- [SOC 203 - Social Problems](#)
- [SOC 251 - Population and Society](#)
- [SOC 260 - Inequality and Social Stratification](#)
- [SOC 323 - Sociology of Policing](#)
- [SUST 201 - Introduction to Sustainability](#)
- [WGS 250 - Gender and Science](#)
- WGS 255
- [WGS 270 - Feminism and Sexualities](#)
- WGS 310
- [WGS 431 - Feminism and Sexual Assault](#)
- [WGS 440 - Body Politics](#)
- [WGS 455 - Religion, Spirituality, and Social Justice](#)
- [WGS 460 - Masculinities](#)

- [PHIL 209 - The Human Person: Philosophical Issues](#)
- [PHIL 270 - Political Philosophy](#)
- [PHIL 368 - Topics in Social Justice](#)
- [PHIL 372 - Philosophy of Sexuality](#)
- [POL S 250 - The Politics of Gender](#)
- [POL S 305 - Contemporary Political Theory](#)
- [POL S 351 - Topics in Gender and Politics](#)
- [POL S 455 - Topics in Gender and Politics](#)
- [POL S 464 - Gender, Conflict and Security](#)
- [RELIG 277 - Women in World Religions](#)
- [SOC 203 - Social Problems](#)
- [SOC 251 - Population and Society](#)
- [SOC 260 - Inequality and Social Stratification](#)
- [SOC 323 - Sociology of Policing](#)
- [SUST 201 - Introduction to Sustainability](#)
- [WGS 250 - Gender and Science](#)
- WGS 255
- [WGS 270 - Feminism and Sexualities](#)
- WGS 310
- [WGS 431 - Feminism and Sexual Assault](#)
- [WGS 440 - Body Politics](#)
- [WGS 455 - Religion, Spirituality, and Social Justice](#)
- [WGS 460 - Masculinities](#)

**3 units in Economics**

(Canadian content preferred)

- [ECON 101 - Introduction to Microeconomics](#)
- [ECON 102 - Introduction to Macroeconomics](#)
- [ECON 213 - An Introduction to the Economics of Developing Countries](#)
- [ECON 225 - History of Economic Thought I](#)
- [ECON 226 - History of Economic Thought II](#)
- [ECON 241 - Money](#)
- [ECON 251 - Indigenous Economics](#)
- [ECON 269 - Economics of the Environment](#)
- [ECON 323 - International Economics](#)
- [ECON 331 - Labor Economics](#)
- [ECON 341 - Money and Banking](#)

**3 units in Economics**

(Canadian content preferred)

- [ECON 101 - Introduction to Microeconomics](#)
- [ECON 102 - Introduction to Macroeconomics](#)
- [ECON 213 - An Introduction to the Economics of Developing Countries](#)
- [ECON 225 - History of Economic Thought I](#)
- [ECON 226 - History of Economic Thought II](#)
- [ECON 241 - Money](#)
- [ECON 251 - Indigenous Economics](#)
- [ECON 269 - Economics of the Environment](#)
- [ECON 323 - International Economics](#)
- [ECON 331 - Labor Economics](#)
- [ECON 341 - Money and Banking](#)

- [ECON 350 - The Economics of Public Expenditures](#)
- [ECON 353 - Taxation Policy and Structure](#)
- [ECON 357 - Health Economics](#)
- [ECON 365 - Resource Economics](#)
- [ECON 366 - Energy Economics](#)
- [ECON 373 - Industrial Organization](#)
- [NS 330 - Indigenous Economies](#)

### 3 units in Political Science

(Canadian context preferred)

- [POL S 101 - Introduction to Politics](#)
- [POL S 201 - Introduction to Indigenous Politics](#)
- [POL S 211 - Introduction to History of Political Theory](#)
- [POL S 212 - Introduction to Contemporary Political Theory](#)
- [POL S 223 - City Government and Politics](#)
- [POL S 224 - Canadian Government](#)
- [POL S 225 - Canadian Politics](#)
- [POL S 235 - Introduction to Comparative Politics](#)
- [POL S 250 - The Politics of Gender](#)
- [POL S 261 - International Relations](#)
- [POL S 299 - Citizenship for Democracy](#)
- [POL S 304 - Modern Political Theory](#)
- [POL S 305 - Contemporary Political Theory](#)
- [POL S 323 - Elections in Canada](#)
- [POL S 327 - Indigenous Politics in Canada](#)
- [POL S 329 - Global Indigenous Politics](#)
- [POL S 331 - Indigenous Feminist Politics](#)
- [POL S 332 - Introduction to United States Politics and Government](#)
- [POL S 333 - Ecology and Politics](#)
- [POL S 354 - Topics in Comparative Politics](#)
- [POL S 364 - Introduction to International Political Economy](#)
- POL S 365
- [POL S 369 - The Politics of Money](#)
- [POL S 370 - Politics of the European Union](#)

- [ECON 350 - The Economics of Public Expenditures](#)
- [ECON 353 - Taxation Policy and Structure](#)
- [ECON 357 - Health Economics](#)
- [ECON 365 - Resource Economics](#)
- [ECON 366 - Energy Economics](#)
- [ECON 373 - Industrial Organization](#)
- [NS 330 - Indigenous Economies](#)

### 3 units in Political Science

(Canadian context preferred)

- [POL S 101 - Introduction to Politics](#)
- [POL S 201 - Introduction to Indigenous Politics](#)
- [POL S 211 - Introduction to History of Political Theory](#)
- [POL S 212 - Introduction to Contemporary Political Theory](#)
- [POL S 223 - City Government and Politics](#)
- [POL S 224 - Canadian Government](#)
- [POL S 225 - Canadian Politics](#)
- [POL S 235 - Introduction to Comparative Politics](#)
- [POL S 250 - The Politics of Gender](#)
- [POL S 261 - International Relations](#)
- [POL S 299 - Citizenship for Democracy](#)
- [POL S 304 - Modern Political Theory](#)
- [POL S 305 - Contemporary Political Theory](#)
- [POL S 323 - Elections in Canada](#)
- [POL S 327 - Indigenous Politics in Canada](#)
- [POL S 329 - Global Indigenous Politics](#)
- [POL S 331 - Indigenous Feminist Politics](#)
- [POL S 332 - Introduction to United States Politics and Government](#)
- [POL S 333 - Ecology and Politics](#)
- [POL S 354 - Topics in Comparative Politics](#)
- [POL S 364 - Introduction to International Political Economy](#)
- POL S 365
- [POL S 369 - The Politics of Money](#)
- [POL S 370 - Politics of the European Union](#)



<ul style="list-style-type: none"> <li>● <a href="#">POL S 371 - Populism and Democracy in Central Europe</a></li> <li>● POL S 374</li> <li>● <a href="#">POL S 375 - Politics of East Asia</a></li> <li>● <a href="#">POL S 380 - Politics in the Middle East</a></li> <li>● <a href="#">POL S 390 - Law and Politics</a></li> <li>● <a href="#">POL S 391 - Canadian Political Parties</a></li> <li>● POL S 405</li> <li>● <a href="#">POL S 417 - Topics in Human Rights</a></li> <li>● <a href="#">POL S 418 - Media and Politics in Canada</a></li> <li>● <a href="#">POL S 419 - Politics of the Canadian Constitution</a></li> <li>● <a href="#">POL S 423 - Canadian Federalism</a></li> <li>● <a href="#">POL S 425 - Ethnicity, Immigration and Social Policy</a></li> <li>● <a href="#">POL S 429 - Government and Politics of Alberta</a></li> <li>● <a href="#">POL S 433 - City Politics</a></li> <li>● <a href="#">POL S 436 - Topics in Indigenous Politics</a></li> <li>● <a href="#">POL S 437 - Indigenous Political Thought</a></li> <li>● <a href="#">POL S 440 - Topics in Canadian Public Policy</a></li> <li>● <a href="#">POL S 441 - Gender and Public Policy</a></li> <li>● <a href="#">POL S 442 - The Canadian State and Identity Politics</a></li> <li>● <a href="#">POL S 443 - Globalization, Ethnic Politics and the Nation-State</a></li> <li>● <a href="#">POL S 444 - Global Critical Race Theory</a></li> <li>● <a href="#">POL S 448 - Gender Politics and Mass Media</a></li> <li>● POL S 452</li> <li>● <a href="#">POL S 455 - Topics in Gender and Politics</a></li> <li>● <a href="#">POL S 458 - United States Foreign Policy</a></li> <li>● <a href="#">POL S 460 - Global Security</a></li> <li>● <a href="#">POL S 461 - International Relations of the Middle East</a></li> <li>● <a href="#">POL S 462 - Political Economy of Global Governance</a></li> <li>● <a href="#">POL S 464 - Gender, Conflict and Security</a></li> <li>● <a href="#">POL S 467 - Chinese Foreign Policy</a></li> <li>● <a href="#">POL S 468 - International Organization</a></li> <li>● <a href="#">POL S 469 - Ethics in International Relations</a></li> <li>● <a href="#">POL S 475 - Politics of China and Japan</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">POL S 371 - Populism and Democracy in Central Europe</a></li> <li>● POL S 374</li> <li>● <a href="#">POL S 375 - Politics of East Asia</a></li> <li>● <a href="#">POL S 380 - Politics in the Middle East</a></li> <li>● <a href="#">POL S 390 - Law and Politics</a></li> <li>● <a href="#">POL S 391 - Canadian Political Parties</a></li> <li>● POL S 405</li> <li>● <a href="#">POL S 417 - Topics in Human Rights</a></li> <li>● <a href="#">POL S 418 - Media and Politics in Canada</a></li> <li>● <a href="#">POL S 419 - Politics of the Canadian Constitution</a></li> <li>● <a href="#">POL S 423 - Canadian Federalism</a></li> <li>● <a href="#">POL S 425 - Ethnicity, Immigration and Social Policy</a></li> <li>● <a href="#">POL S 429 - Government and Politics of Alberta</a></li> <li>● <a href="#">POL S 433 - City Politics</a></li> <li>● <a href="#">POL S 436 - Topics in Indigenous Politics</a></li> <li>● <a href="#">POL S 437 - Indigenous Political Thought</a></li> <li>● <a href="#">POL S 440 - Topics in Canadian Public Policy</a></li> <li>● <a href="#">POL S 441 - Gender and Public Policy</a></li> <li>● <a href="#">POL S 442 - The Canadian State and Identity Politics</a></li> <li>● <a href="#">POL S 443 - Globalization, Ethnic Politics and the Nation-State</a></li> <li>● <a href="#">POL S 444 - Global Critical Race Theory</a></li> <li>● <a href="#">POL S 448 - Gender Politics and Mass Media</a></li> <li>● POL S 452</li> <li>● <a href="#">POL S 455 - Topics in Gender and Politics</a></li> <li>● <a href="#">POL S 458 - United States Foreign Policy</a></li> <li>● <a href="#">POL S 460 - Global Security</a></li> <li>● <a href="#">POL S 461 - International Relations of the Middle East</a></li> <li>● <a href="#">POL S 462 - Political Economy of Global Governance</a></li> <li>● <a href="#">POL S 464 - Gender, Conflict and Security</a></li> <li>● <a href="#">POL S 467 - Chinese Foreign Policy</a></li> <li>● <a href="#">POL S 468 - International Organization</a></li> <li>● <a href="#">POL S 469 - Ethics in International Relations</a></li> <li>● <a href="#">POL S 475 - Politics of China and Japan</a></li> </ul>
--	--

- [POL S 477 - Islam, Modernity, and Democracy](#)
- POL S 483

### 3 units in Sociology

or a class in current world issues/events

- [NS 111 - Contemporary Perspectives in Indigenous Studies](#)
- [NS 161 - Countering Stereotypes of Indigenous Peoples](#)
- [NS 200 - Indigenous | Canada: Looking Forward/Looking Back](#)
- [NS 201 - Indigenous | Canada: Looking Forward/Looking Back](#)
- [NS 361 - Race, Stereotypes, and Indigeneity](#)
- [PHIL 125 - Practical Logic](#)
- [PHIL 250 - Contemporary Ethical Issues](#)
- [PHIL 270 - Political Philosophy](#)
- [POL S 329 - Global Indigenous Politics](#)
- [POL S 425 - Ethnicity, Immigration and Social Policy](#)
- [POL S 443 - Globalization, Ethnic Politics and the Nation-State](#)
- [PSYCH 241 - Social Psychology](#)
- [SOC 100 - Introductory Sociology](#)
- [SOC 203 - Social Problems](#)
- [SOC 212 - Classical Social Theory](#)
- [SOC 224 - Sociology of Deviance and Conformity](#)
- [SOC 225 - Criminology](#)
- [SOC 226 - Surveillance Studies](#)
- [SOC 241 - Social Psychology](#)
- [SOC 251 - Population and Society](#)
- [SOC 260 - Inequality and Social Stratification](#)
- [SOC 269 - Introductory Sociology of Globalization](#)
- [SOC 291 - Introduction to Environmental Sociology](#)
- [SOC 301 - Sociology of Gender](#)
- [SOC 321 - Youth, Crime and Society](#)
- [SOC 323 - Sociology of Policing](#)
- [SOC 342 - Socialization](#)

- [POL S 477 - Islam, Modernity, and Democracy](#)
- POL S 483

### 3 units in Sociology

or a class in current world issues/events

- [EDPS 360 - Society and Education](#)
- [EDPS 411 - Cross Cultural Studies in Education](#)
- [EDPS 422 - International Development Education](#)
- [NS 111 - Contemporary Perspectives in Indigenous Studies](#)
- [NS 161 - Countering Stereotypes of Indigenous Peoples](#)
- [NS 200 - Indigenous | Canada: Looking Forward/Looking Back](#)
- [NS 201 - Indigenous | Canada: Looking Forward/Looking Back](#)
- [NS 361 - Race, Stereotypes, and Indigeneity](#)
- [PHIL 125 - Practical Logic](#)
- [PHIL 250 - Contemporary Ethical Issues](#)
- [PHIL 270 - Political Philosophy](#)
- [POL S 329 - Global Indigenous Politics](#)
- [POL S 425 - Ethnicity, Immigration and Social Policy](#)
- [POL S 443 - Globalization, Ethnic Politics and the Nation-State](#)
- [PSYCH 241 - Social Psychology](#)
- [SOC 100 - Introductory Sociology](#)
- [SOC 203 - Social Problems](#)
- [SOC 212 - Classical Social Theory](#)
- [SOC 224 - Sociology of Deviance and Conformity](#)
- [SOC 225 - Criminology](#)
- [SOC 226 - Surveillance Studies](#)
- [SOC 241 - Social Psychology](#)
- [SOC 251 - Population and Society](#)
- [SOC 260 - Inequality and Social Stratification](#)
- [SOC 269 - Introductory Sociology of Globalization](#)

- [SOC 343 - Social Movements](#)
- SOC 344
- [SOC 345 - Cultural Studies](#)
- SOC 346
- [SOC 363 - Sociology of Work and Industry](#)
- SOC 367
- [SOC 369 - Sociology of Globalization](#)
- [SOC 370 - Racism and Decolonization](#)
- [SOC 377 - Sociology of Youth](#)

**3 units in World History Content**

(i.e., covering more than one country)

- [CLASS 110 - The Ancient World](#)
- [HIST 104 - The Atomic Age: The World After 1945](#)
- [HIST 110 - The Pre-Modern World](#)
- [HIST 111 - The Early Modern World](#)
- [HIST 112 - The Modern World](#)
- [HIST 114 - The History of the World in the Last 10 Years](#)
- [HIST 115 - Technology and History](#)
- [HIST 116 - The Emergence of the Atlantic World](#)
- [HIST 121 - Topics in Global History](#)
- [HIST 123 - Plague: Disease and Epidemics in History](#)
- [HIST 127 - Drugs in Modern Global History](#)
- [HIST 128 - War, Revolution, and Society](#)
- [HIST 130 - Democracy, War and Consumer Capitalism: The Making of Modern Europe](#)
- [HIST 134 - Global History of Alchemy: Quests for Gold, Power, and Immortality](#)
- [HIST 179 - Sex Work and Intimate Labour in Global History](#)
- [HIST 191 - Video Games, History, and Storytelling](#)

- [SOC 291 - Introduction to Environmental Sociology](#)
- [SOC 301 - Sociology of Gender](#)
- [SOC 321 - Youth, Crime and Society](#)
- [SOC 323 - Sociology of Policing](#)
- [SOC 342 - Socialization](#)
- [SOC 343 - Social Movements](#)
- SOC 344
- [SOC 345 - Cultural Studies](#)
- SOC 346
- [SOC 363 - Sociology of Work and Industry](#)
- SOC 367
- [SOC 369 - Sociology of Globalization](#)
- [SOC 370 - Racism and Decolonization](#)
- [SOC 377 - Sociology of Youth](#)

**3 units in World History Content**

(i.e., covering more than one country)

- [CLASS 110 - The Ancient World](#)
- [HIST 104 - The Atomic Age: The World After 1945](#)
- [HIST 110 - The Pre-Modern World](#)
- [HIST 111 - The Early Modern World](#)
- [HIST 112 - The Modern World](#)
- [HIST 114 - The History of the World in the Last 10 Years](#)
- [HIST 115 - Technology and History](#)
- [HIST 116 - The Emergence of the Atlantic World](#)
- [HIST 121 - Topics in Global History](#)
- [HIST 123 - Plague: Disease and Epidemics in History](#)
- [HIST 127 - Drugs in Modern Global History](#)
- [HIST 128 - War, Revolution, and Society](#)
- [HIST 130 - Democracy, War and Consumer Capitalism: The Making of Modern Europe](#)
- [HIST 134 - Global History of Alchemy: Quests for Gold, Power, and Immortality](#)
- [HIST 179 - Sex Work and Intimate Labour in Global History](#)

- [HIST 195 - Warfare Since 1789: From Mass Armies to Thermonuclear War](#)
- [HIST 205 - Capitalism](#)
- [HIST 220 - The Making of the Modern Middle East](#)
- [HIST 237 - The Pacific World Since 1500](#)
- [HIST 241 - Colonial Latin America](#)
- [HIST 242 - Modern Latin America](#)
- [HIST 243 - The Golden Age of Islam: History of the Muslim World to the 16th Century](#)
- [HIST 246 - Africa from Medieval to Modern Times](#)
- [HIST 247 - Africa in the 20th and 21st Centuries: From Colonial Rule to Modern Nations](#)
- [HIST 252 - Slavery in the Americas](#)
- [HIST 272 - Religion in History](#)
- [HIST 280 - East Asia to 1500](#)
- [HIST 281 - East Asia from 1500](#)
- [HIST 285 - China and the West](#)
- [HIST 287 - The Chinese in Canada and Canadians in China](#)
- [HIST 291 - World War One](#)
- [HIST 293 - History of Science, Technology and Medicine: Key Moments](#)
- [HIST 294 - An Introduction to the History of Sciences, Technology, and Medicine](#)
- [HIST 295 - 20th-Century Warfare](#)
- [HIST 296 - World War Two](#)
- [HIST 297 - The History of Christianity](#)
- [HIST 301 - Europe in the Age of Total War, 1890-1945](#)
- [HIST 326 - Topics in History at the Movies](#)
- HIST 348
- [HIST 379 - Religion in Modern Europe](#)
- [HIST 391 - History of Technology](#)
- HIST 397
- [HIST 398 - History of Science II](#)
- HIST 435
- HIST 436
- [HIST 442 - Topics in Latin American History Since 1850](#)

- [HIST 191 - Video Games, History, and Storytelling](#)
- [HIST 195 - Warfare Since 1789: From Mass Armies to Thermonuclear War](#)
- [HIST 205 - Capitalism](#)
- [HIST 220 - The Making of the Modern Middle East](#)
- [HIST 237 - The Pacific World Since 1500](#)
- [HIST 241 - Colonial Latin America](#)
- [HIST 242 - Modern Latin America](#)
- [HIST 243 - The Golden Age of Islam: History of the Muslim World to the 16th Century](#)
- [HIST 246 - Africa from Medieval to Modern Times](#)
- [HIST 247 - Africa in the 20th and 21st Centuries: From Colonial Rule to Modern Nations](#)
- [HIST 252 - Slavery in the Americas](#)
- [HIST 272 - Religion in History](#)
- [HIST 280 - East Asia to 1500](#)
- [HIST 281 - East Asia from 1500](#)
- [HIST 285 - China and the West](#)
- [HIST 287 - The Chinese in Canada and Canadians in China](#)
- [HIST 291 - World War One](#)
- [HIST 293 - History of Science, Technology and Medicine: Key Moments](#)
- [HIST 294 - An Introduction to the History of Sciences, Technology, and Medicine](#)
- [HIST 295 - 20th-Century Warfare](#)
- [HIST 296 - World War Two](#)
- [HIST 297 - The History of Christianity](#)
- [HIST 301 - Europe in the Age of Total War, 1890-1945](#)
- [HIST 326 - Topics in History at the Movies](#)
- HIST 348
- [HIST 379 - Religion in Modern Europe](#)
- [HIST 391 - History of Technology](#)
- HIST 397
- [HIST 398 - History of Science II](#)
- HIST 435
- HIST 436

<ul style="list-style-type: none"> <li>● <a href="#">HIST 444 - Topics in Transnational History</a></li> <li>● <a href="#">HIST 446 - Themes and Issues in African History</a></li> <li>● <a href="#">HIST 493 - War and Society in the Modern World</a></li> </ul> <p><b>15 units chosen from</b></p> <hr/> <p>any course listed in the above categories, or those offered by social sciences departments and programs in: Aboriginal/Indigenous/Native studies, anthropology, classics, economics, geography, human geography and planning, history, philosophy, political science, psychology, religious studies, sociology, women and gender studies. Students are limited to 6 units in psychology.</p> <p>Notes</p> <hr/> <ul style="list-style-type: none"> <li>● Students must take <a href="#">EDSE 373</a> during the Introductory Professional Term (IPT), which is normally offered in both the Fall and Winter Terms.</li> <li>● Students must take <a href="#">EDSE 473</a> during the Advanced Professional Term (APT), which is normally offered in both the Fall and Winter Terms.</li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">HIST 442 - Topics in Latin American History Since 1850</a></li> <li>● <a href="#">HIST 444 - Topics in Transnational History</a></li> <li>● <a href="#">HIST 446 - Themes and Issues in African History</a></li> <li>● <a href="#">HIST 493 - War and Society in the Modern World</a></li> </ul> <p><b>15 units chosen from</b></p> <hr/> <p>any course listed in the above categories, or those offered by social sciences departments and programs in: Aboriginal/Indigenous/Native studies, anthropology, classics, economics, geography, human geography and planning, history, philosophy, political science, psychology, religious studies, sociology, women and gender studies. Students are limited to 6 units in psychology.</p> <p>Notes</p> <hr/> <ul style="list-style-type: none"> <li>● Students must take <a href="#">EDSE 373</a> during the Introductory Professional Term (IPT), which is normally offered in both the Fall and Winter Terms.</li> <li>● Students must take <a href="#">EDSE 473</a> during the Advanced Professional Term (APT), which is normally offered in both the Fall and Winter Terms.</li> </ul>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date: Faculty of Education, Undergraduate Academic Affairs Council (UAAC) Approved - November 23, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Education (Measurement, Evaluation, and Data Science)
Contact Person:	Mark Gierl
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>Undergraduate</li> <li><b>Graduate</b></li> </ul>
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

EDPY 505 is a required statistics course for students enrolled in the Measurement, Evaluation, and Data Science (MEDS) Thesis-based Master Program and the School and Clinical Child Psychology (SCCP) Master Program. Before starting their program, these students are expected to have taken EDPY 500 or show the evidence of an equivalent coursework in previous undergraduate and/or graduate training. Removing this prerequisite will help graduate students enroll in EDPY 505 via BearTracks without a manual enrollment process.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number:</b> EDPY 505</p> <p><b>Title:</b> Quantitative Methods I</p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty:</b> Faculty of Education  <b>Department:</b> N/A  <b>Typically Offered:</b> Fall / Winter</p> <p><b>Description</b></p> <p>This course will focus on the analysis of data from experiments and surveys using the analysis of variance. Students will develop knowledge of and skills in understanding the underlying statistical models, matching statistical models to research designs, using computer software to conduct appropriate statistical analyses, and interpreting and reporting findings. <b>Prerequisites: EDPY 500 or equivalent.</b></p>	<p><b>Subject &amp; Number:</b> EDPY 505</p> <p><b>Title:</b> Quantitative Methods I</p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty:</b> Faculty of Education  <b>Department:</b> N/A  <b>Typically Offered:</b> Fall / Winter</p> <p><b>Description</b></p> <p>This course will focus on the analysis of data from experiments and surveys using the analysis of variance. Students will develop knowledge of and skills in understanding the underlying statistical models, matching statistical models to research designs, using computer software to conduct appropriate statistical analyses, and interpreting and reporting findings.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Education (Measurement, Evaluation, and Data Science)
Contact Person:	Mark Gierl
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>Undergraduate</li> <li><b>Graduate</b></li> </ul>
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Currently, all incoming students in the Measurement, Evaluation, and Data Science (MEDS), School and Clinical Child Psychology (SCCP), and Counseling Psychology (CP) programs are required to take EDPY 500 or show the evidence of an equivalent coursework in previous undergraduate and/or graduate training. However, almost all students complete an introductory-level statistics course similar to EDPY 500 prior to taking EDPY 507. Therefore, EDPY 500 is not deemed necessary to enroll in EDPY 507 Measurement Theory I. Removing this prerequisite will help graduate students enroll in EDPY 507 (a required course for MEDS, SCCP, and CP) via BearTracks without a manual enrollment process.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number:</b> EDPY 507</p> <p><b>Title:</b> Measurement Theory I</p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty:</b> Faculty of Education  <b>Department:</b> N/A  <b>Typically Offered:</b> Fall / Winter</p> <p><b>Description</b></p> <p>This course will introduce students to the concepts and procedures required to develop, administer, and use educational and psychological assessments. Emphasis will be placed on the foundational concepts related to reliability and validity. <b>Prerequisites: EDPY 500 or equivalent.</b></p>	<p><b>Subject &amp; Number:</b> EDPY 507</p> <p><b>Title:</b> Measurement Theory I</p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty:</b> Faculty of Education  <b>Department:</b> N/A  <b>Typically Offered:</b> Fall / Winter</p> <p><b>Description</b></p> <p>This course will introduce students to the concepts and procedures required to develop, administer, and use educational and psychological assessments. Emphasis will be placed on the foundational concepts related to reliability and validity.</p>

**Reviewed/Approved by:**



REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Education (Measurement, Evaluation, and Data Science)
Contact Person:	Mark Gierl
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>Undergraduate</li> <li><b>Graduate</b></li> </ul>
For which term will this change take effect?	Winter 2025

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

EDPY 605 is a required doctoral-level statistics course for PhD students enrolled in the Measurement, Evaluation, and Data Science (MEDS) program. All incoming doctoral students are expected to have taken EDPY 505 or an equivalent course in previous undergraduate and/or graduate course work. Removing this prerequisite will help graduate students enroll in EDPY 605 via BearTracks without a manual enrollment process.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number:</b> EDPY 605</p> <p><b>Title:</b> Quantitative Methods II</p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty:</b> Faculty of Education  <b>Department:</b> N/A  <b>Typically Offered:</b> Winter</p> <p><b>Description</b></p> <p>This course will introduce students to advanced statistical techniques that are frequently used in data analysis in the social sciences. Selected topics such as multiple regression, MANOVA, canonical correlation, principal component analysis, and factor analysis will be covered.  <del>Prerequisites: EDPY 500 or equivalent.</del></p>	<p><b>Subject &amp; Number:</b> EDPY 605</p> <p><b>Title:</b> Quantitative Methods II</p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty:</b> Faculty of Education  <b>Department:</b> N/A  <b>Typically Offered:</b> Winter</p> <p><b>Description</b></p> <p>This course will introduce students to advanced statistical techniques that are frequently used in data analysis in the social sciences. Selected topics such as multiple regression, MANOVA, canonical correlation, principal component analysis, and factor analysis will be covered.  <b>Prerequisite: EDPY 505 or equivalent.</b></p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Education
Contact Person:	Scott Key
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>Undergraduate</li> </ul>
	<ul style="list-style-type: none"> <li><b>Graduate</b></li> </ul>
For which term will this change take effect?	Summer 2024 [ <b>EARLY IMPLEMENTATION</b> ]

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The calendar change is needed to align with program changes made in 2022-23. Specifically, the reduction of required courses from 8 to 4 courses. This requires adjustments to the prerequisites for EDU 510 as well as adjustment in the term offered.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>EDU 510</b></p> <p><b>Fundamentals of Educational Research</b></p> <p><b>3 Units</b> <b>3-0-0</b> <b>Non Standard - \$1,759.66</b> <b>Education</b> <b>Second</b></p> <p>Explores the findings of educational research, and works to apply the results of research to educational problems. Focuses on conceptualizing methods of educational research to specific and individual educational sites and issues. Prerequisites: Registration in the Master of Education in Educational Studies program, and <b>EDU 511 and EDU 512</b>. Sections may be offered at an increased rate of fee assessment; refer to the Tuition and Fees page in the University Regulations sections of the Calendar.</p>	<p><b>EDU 510</b></p> <p><b>Fundamentals of Educational Research</b></p> <p><b>3 Units</b> <b>3-0-0</b> <b>Non Standard - \$1,759.66</b> <b>Education</b> <b>Either</b></p> <p>Explores the findings of educational research, and works to apply the results of research to educational problems. Focuses on conceptualizing methods of educational research to specific and individual educational sites and issues. Prerequisites: Registration in the Master of Education in Educational Studies program and <b>consent of the program</b>. Sections may be offered at an increased rate of fee assessment; refer to the Tuition and Fees page in the University Regulations sections of the Calendar.</p>

--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Education
Contact Person:	Scott Key
Level of change: (choose one only) [?]	• Undergraduate
	• <b>Graduate</b>
For which term will this change take effect?	Summer 2024 [ <b>EARLY IMPLEMENTATION</b> ]

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The calendar change is needed to align with program changes made in 2022-23. Specifically, the reduction of required courses from 8 to 4 courses. This requires adjustments to the prerequisites for EDU 514 as well as adjustment in the term offered.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>EDU 514</b></p> <p><b>Planning for Educational Change</b></p> <p><b>3 Units</b> <b>3-0-0</b> <b>Non Standard - \$1,759.66</b> <b>Education</b> <b>Spring/Summer</b></p> <p>Introduces how educational research can enhance educational change toward school improvement. <del>Focuses on utilizing appropriate research methods to create a site-based research proposal for a specific school site. Focuses on planning educational research that improves schools.</del> Prerequisites: Registration in the Master of Education in Educational Studies program and EDU 510. Sections may be offered at an increased rate of fee assessment; refer to the Tuition and Fees page in the University Regulations sections of the Calendar.</p>	<p><b>EDU 514</b></p> <p><b>Planning for Educational Change</b></p> <p><b>3 Units</b> <b>3-0-0</b> <b>Non Standard - \$1,759.66</b> <b>Education</b> <b>Either</b></p> <p>Introduces how educational research can enhance educational change toward school improvement. <b>Focuses on utilizing research to create a site-based improvement or research proposal for a specific school site.</b> Prerequisites/co-requisites: Registration in the Master of Education in Educational Studies program and EDU 510. Sections may be offered at an increased rate of fee assessment; refer to the Tuition and Fees page in the University Regulations sections of the Calendar.</p>

--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Education
Contact Person:	Scott Key
Level of change: (choose one only) [?]	• Undergraduate
	• <b>Graduate</b>
For which term will this change take effect?	Summer 2024 [ <b>EARLY IMPLEMENTATION</b> ]

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The calendar change is needed to align with program changes made in 2022-23. The course title is changed to better reflect the diversity of course assignments. The prerequisites for EDU 515 are changed to reflect the reduction of required courses from 8 to 4 courses.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>EDU 515</b></p> <p><b>Conducting Educational Research</b></p> <p><b>3 Units</b> <b>3-0-0</b> <b>Non Standard - \$1,759.66</b> <b>Education</b> <b>Either</b></p> <p>A supervised research assignment to develop and apply knowledge and skills related to data collection, data analysis techniques, and research report preparation. Prerequisites: Registration in the Master of Education in Educational Studies program, <b>and EDU 513 and EDU 514</b>. Sections may be offered at an increased rate of fee assessment; refer to the Tuition and Fees page in the University Regulations sections of the Calendar.</p>	<p><b>EDU 515</b></p> <p><b>Applying Educational Research</b></p> <p><b>3 Units</b> <b>3-0-0</b> <b>Non Standard - \$1,759.66</b> <b>Education</b> <b>Either</b></p> <p>A supervised <b>applied</b> research assignment to develop and apply knowledge and skills related to data collection, data analysis techniques, and research report preparation. Prerequisites: Registration in the Master of Education in Educational Studies program <b>and consent of the program</b>. Sections may be offered at an increased rate of fee assessment; refer to the Tuition and Fees page in the University Regulations sections of the Calendar.</p>



**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Education
Contact Person:	Scott Key
Level of change: (choose one only) [?]	• Undergraduate
	• <b>Graduate</b>
For which term will this change take effect?	Summer 2024 [ <b>EARLY IMPLEMENTATION</b> ]

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The minor changes to the title and course description are a refinement based on teaching the course twice.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>EDU 560</b></p> <p><b>Bringing Life to Literacy Experiences</b></p> <p>★ 3 (fi 6)(EITHER, 3-0-0)</p> <p><b>Non-Standard Tuition: \$1,477</b></p> <p><b>Faculty of Education</b></p> <p><b>Description</b></p> <p>This course is designed to transform understandings of Indigenous ways of nurturing literacy learning. Students will have the opportunity to participate in diverse experiences designed to deepen understanding of the potential of Indigenous knowledges, <b>relational pedagogies, and autobiographical narrative inquiry</b> for transforming understandings of Literacy and how we can inspire and nurture literacy alongside our next generations of children and youth.</p>	<p><b>EDU 560</b></p> <p><b>Honouring Indigenous Ways of Knowing, Being, and Doing in Literacy Learning</b></p> <p>★ 3 (fi 6)(EITHER, 3-0-0)</p> <p><b>Non-Standard Tuition: \$1,477</b></p> <p><b>Faculty of Education</b></p> <p><b>Description</b></p> <p>This course is designed to transform understandings of Indigenous ways of nurturing literacy learning. Students will have the opportunity to participate in diverse experiences designed to deepen understanding of the potential of Indigenous knowledges <b>and pedagogies for transforming understandings of</b> Literacy and how we can inspire and nurture literacy alongside our next generations of children and youth.</p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

**December 4, 2023 by the Faculty of Education Graduate Academic Affairs Council (GAAC).**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	FoKSR
Contact Person:	Angela Bayduza Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	no

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Minor editorial changes found upon review of the calendar copy and updating of program plans for the BARST program in the 2024-2025 academic year.

### Calendar Copy

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48069](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48069)

<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> <b>New language</b>
<p><b>Bachelor of Arts in Recreation, Sport, and Tourism (Effective September 2024)</b></p> <p>The Bachelor of Arts in Recreation, Sport and Tourism (BARST) degree prepares graduates with a solid foundation of knowledge and skills underlying the delivery of recreation, sport and tourism. Students can create a diversified degree program that aligns with their individual interests through selection of one of four options: completion of the general BARST program or completion of the BARST program with a Minor (Minor in Community Development, Minor in</p>	<p><b>Bachelor of Arts in Recreation, Sport, and Tourism (Effective September 2024)</b></p> <p>The Bachelor of Arts in Recreation, Sport and Tourism (BARST) degree prepares graduates with a solid foundation of knowledge and skills underlying the delivery of recreation, sport and tourism. Students can create a diversified degree program that aligns with their individual interests through selection of one of four options: completion of the general BARST program or completion of the BARST program with a Minor (Minor in Community Development, Minor in</p>

Sport and Recreation Management, or Minor in Tourism and Natural Environments).

**General BARST Program Structure**

Effective September 2024

Students in the BARST Degree take a program of 120 units over a four-year period, consisting of:

...

**Notes**

1. The total course units taken in Open Options and In Field Learning courses in year 4 must equal 6 units.
2. Students are encouraged to contact the KSR Student Services Office and consult with an Academic Advisor for assistance in program building and course selection of Faculty Options in the completion of program requirements as well in selecting appropriate Open Options to support, prepare for, and meet In Field Learning course prerequisites and placement requirements.
3. Students approved to take the Advanced Project in lieu of In Field Learning would normally take the approved **course work** and research-based Directed Study in Year 4.
4. A maximum of 15 units in In Field Learning course offerings may be credited toward the BARST degree program.
5. [In Field Learning](#) courses are restricted to students who have completed a minimum of 45 units toward the BARST degree program.

**Minors**

A minor consists of at least 21 units **with at least 15 units at the 300 level or higher (see Notes)**. Students may choose to complete one of the following minors:

**Minor in Community Development**

The minor must include the following:

KRLS 352 - Leisure Facilities: Planning and Management

RLS 331 - Leisure Education

**RLS 447 - Professional Practicum**

In Field Learning course work focused on experiential learning in the community recreation sector.

At least 6 units from an approved list of options for the minor, available from the Student Services Office.

Sport and Recreation Management, or Minor in Tourism and Natural Environments).

**General BARST Program Structure**

Effective September 2024

Students in the BARST Degree take a program of 120 units over a four-year period, consisting of:

...

**Notes**

1. The total course units taken in Open Options and In Field Learning courses in year 4 must equal 6 units.
2. Students are encouraged to contact the KSR Student Services Office and consult with an Academic Advisor for assistance in program building and course selection of Faculty Options in the completion of program requirements as well in selecting appropriate Open Options to support, prepare for, and meet In Field Learning course prerequisites and placement requirements.
3. Students approved to take the Advanced Project in lieu of In Field Learning would normally take the approved **coursework** and research-based Directed Study in Year 4.
4. A maximum of 15 units in In Field Learning course offerings may be credited toward the BARST degree program.
5. [In Field Learning](#) courses are restricted to students who have completed a minimum of 45 units toward the BARST degree program.

**Minors**

A minor consists of at least 21 units. Students may choose to complete one of the following minors:

**Minor in Community Development**

The minor must include the following:

KRLS 352 - Leisure Facilities: Planning and Management

RLS 331 - Leisure Education

In Field Learning course work focused on experiential learning in the community recreation sector.

At least 6 units from an approved list of options for the minor, available from the Student Services Office.

**Minor in Sport and Recreation Management**

The minor must include the following:

KRLS 350 - Advanced Analysis of Sport and Leisure Organizations

KRLS 352 - Leisure Facilities: Planning and Management

In Field Learning course work focused on experiential learning in the sport and recreation management sector.

At least 6 units from an approved list of options for the minor, available from the Student Services Office.

**Minor in Tourism and Natural Environments**

The minor must include the following:

RLS 463 - Issues in Tourism Development

RLS 465 - Natural Area Tourism

In Field Learning course work focused on experiential learning in the tourism and natural environments sector.

At least 6 units from an approved list of options for the minor, available from the Student Services Office.

**Notes:**

1. Students who complete a minor will complete **21** units open options with at least **12** units at the 200-level or higher.
2. Students who complete a minor will complete **4** senior open options and 4 minor courses, instead of the regular program requirement of **4** senior faculty options and 4 senior out-of-faculty options for those students who do not choose to declare a minor.

**Removed language**

**Minor in Sport and Recreation Management**

The minor must include the following:

KRLS 350 - Advanced Analysis of Sport and Leisure Organizations

KRLS 352 - Leisure Facilities: Planning and Management

In Field Learning course work focused on experiential learning in the sport and recreation management sector.

At least 6 units from an approved list of options for the minor, available from the Student Services Office.

**Minor in Tourism and Natural Environments**

The minor must include the following:

RLS 463 - Issues in Tourism Development

RLS 465 - Natural Area Tourism

In Field Learning course work focused on experiential learning in the tourism and natural environments sector.

At least 6 units from an approved list of options for the minor, available from the Student Services Office.

**Notes:**

1. Students who complete a minor will complete **24** units open options with at least **15** units at the 200-level or higher.
2. Students who complete a minor will complete **5** senior open options and 4 minor courses, instead of the regular program requirement of **5** senior faculty options and 4 senior out-of-faculty options for those students who do not choose to declare a minor.

**New language**

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

KSR Undergraduate Programs Committee: November 8<sup>th</sup>, 2023 approval

KSR Faculty Executive: November 22<sup>nd</sup>, 2023 approval

KSR Faculty Council: November 29<sup>th</sup>, 2023 approval

Program Support Team (Undergraduate & Non-Credit): for omnibus consent agenda December 14<sup>th</sup>, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	FoKSR (Faculty of Kinesiology, Sport, & Recreation)
Contact Person:	Angela Bayduza Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Undergraduate</li> </ul>
	<ul style="list-style-type: none"> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Program</li> </ul>
	<ul style="list-style-type: none"> <li>• Regulation</li> </ul>
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	no

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Minor editorial change found upon review of the calendar copy for BKin/BEEd Secondary program. For Year 3, six units of Minor coursework is required (not 3).

The purpose of the proposed change to the BKinBEEd (Elementary) combined degrees program years 4 and 5 is to align with and reflect the new approach and calendar language in the Faculty of Education's Bachelor of Education in Elementary Education program years 3 and 4 of course selection and completion ([see this link](#)). Where course selection and completion are not listed by term, as it is currently organized and listed in calendar in the BKinBEEd (Elementary) combined degrees program years 4 and 5, but simply by course category groupings and credit unit completion. This allows the FoKSR to prepare KSR students for course selection and completion upon transfer from KSR to the Faculty of Education in year 4. As well, to assist the Faculty of Education in achieving greater flexibility in the ability to change how their courses are offered in terms of timetabling and resolving scheduling issues. This proposed change is an editorial reorganization of presentation of the course requirements with no changes to course or program completion requirements.

## Calendar Copy

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47896&returnto=12345](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47896&returnto=12345)

Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<p><b>Program Requirements (Secondary Route)</b> ...</p> <p><b>Year 3 (30 units)</b></p> <ul style="list-style-type: none"> <li>● EDU 211 - Aboriginal Education and Contexts for Professional and Personal Engagement</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● HE ED 321 - Psychological Dimensions of Health Promotion OR</li> <li>● KIN 303 - Psychology of Sport and Physical Activity</li> </ul> <ul style="list-style-type: none"> <li>● KIN 207 - Physical Growth and Psychomotor Development</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● KIN 240 - Introduction to Sports Injury Management OR</li> <li>● KIN 335 - Advanced Conditioning Methodology</li> </ul> <ul style="list-style-type: none"> <li>● KRLS 371 - Assessment and Evaluation in Physical Activity for Children and Youth</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● KIN 471 - Physical Activity for Individuals with Developmental Impairments OR</li> <li>● KIN 472 - Physical Activity for Individuals with Physical Impairments</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● KRLS 304 - Advanced Sociology of Sport and Leisure OR</li> <li>● KRLS 323 - Indigenous Perspective on Activity, Health, and Wellness in Canada</li> </ul> <ul style="list-style-type: none"> <li>● 3 units from Activity Core</li> <li>● <b>3</b> units in Minor courses</li> </ul> <p><b>Years 4 and 5 (60 units) Taken in the Faculty of Education</b></p>	<p><b>Program Requirements (Secondary Route)</b> ...</p> <p><b>Year 3 (30 units)</b></p> <ul style="list-style-type: none"> <li>● EDU 211 - Aboriginal Education and Contexts for Professional and Personal Engagement</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● HE ED 321 - Psychological Dimensions of Health Promotion OR</li> <li>● KIN 303 - Psychology of Sport and Physical Activity</li> </ul> <ul style="list-style-type: none"> <li>● KIN 207 - Physical Growth and Psychomotor Development</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● KIN 240 - Introduction to Sports Injury Management OR</li> <li>● KIN 335 - Advanced Conditioning Methodology</li> </ul> <ul style="list-style-type: none"> <li>● KRLS 371 - Assessment and Evaluation in Physical Activity for Children and Youth</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● KIN 471 - Physical Activity for Individuals with Developmental Impairments OR</li> <li>● KIN 472 - Physical Activity for Individuals with Physical Impairments</li> </ul> <p>One of:</p> <ul style="list-style-type: none"> <li>● KRLS 304 - Advanced Sociology of Sport and Leisure OR</li> <li>● KRLS 323 - Indigenous Perspective on Activity, Health, and Wellness in Canada</li> </ul> <ul style="list-style-type: none"> <li>● 3 units from Activity Core</li> <li>● <b>6</b> units in Minor courses</li> </ul> <p><b>Years 4 and 5 (60 units) Taken in the Faculty of Education</b></p>



...

**Program Requirements (Elementary Route)**

...

**Year 4 (30 units)**

**Fall Term: Course Requirements**

- EDEL 305 - Language Arts in the Elementary School OR
- EDEL 316 - Communication Through Mathematics Education
  
- EDEL 321 - Introduction to Curriculum and Pedagogy in Elementary School Physical Education
- EDPY 302 - Learning and Development in Childhood
- Indigenous Histories and Culture [See Education Courses (9 units).] (3 units)
- Open option. (3 units)

**Winter Term: Introductory Professional Term (15 units)**

Courses in the IPT are normally taken concurrently.

- EDEL 305 - Language Arts in the Elementary School OR
- EDEL 316 - Communication Through Mathematics Education
  
- EDEL 330 - Curriculum and Pedagogy in Elementary School Science OR
- EDEL 335 - Curriculum and Pedagogy in Elementary School Social Studies
  
- EDFX 325 - Elementary Route: Introductory Field Experience
- EDPY 303 - Educational Assessment

**Year 5 (30 units)**

**Fall Term: Advanced Professional Term (15 units)**

Courses in the APT are normally taken concurrently.

- EDEL 330 - Curriculum and Pedagogy in Elementary School Science OR
- EDEL 335 - Curriculum and Pedagogy in Elementary School Social Studies

...

**Program Requirements (Elementary Route)**

...

**Years 4 and 5**

**Senior Education Courses (30 units)**

- EDEL 305 - Language Arts in the Elementary School
- EDEL 316 - Communication Through Mathematics Education
- EDEL 330 - Curriculum and Pedagogy in Elementary School Science
- EDEL 335 - Curriculum and Pedagogy in Elementary School Social Studies
  
- EDEL 321 - Introduction to Curriculum and Pedagogy in Elementary School Physical Education
- 3 units from EDEL 302, EDEL 325, OR EDEL 345
- EDPY 301 - Introduction to Inclusive Education: Adapting Classroom Instruction for Students with Special Needs
- EDPY 302 - Learning and Development in Childhood
- EDPY 303 - Educational Assessment
- EDPS 410 - Ethics and Law in Teaching

**Field Placements (15 units)**

- EDFX 325 - Elementary Route: Introductory Field Experience
- EDFX 425 - Elementary Route: Advanced Field Experience

**Other program requirements (15 units)**

- EDEL (400-Level) Option (3 units)
- Open Option (3 units) (Education Coursework Recommended)
- Education Elective (3 units)
- Open Option (3 units) (Education Coursework Recommended)
- Indigenous Histories and Culture [See Education Courses] (3 units)

**Notes:**

1. EDEL 305 and EDEL 316 must be taken in Year 4 as pre/co-requisites to EDFX 325.

<ul style="list-style-type: none"> <li>● <del>EDFX 425 – Elementary Route: Advanced Field Experience</del></li> <li>● <del>EDPY 301 – Introduction to Inclusive Education: Adapting Classroom Instruction for Students with Special Needs</del></li> </ul> <p><b>Winter Term: Course Requirements</b></p> <ul style="list-style-type: none"> <li>● <del>EDEL (400-level) Option</del></li> <li>● <del>Education Elective</del></li> <li>● <del>Open Option</del></li> <li>● <del>EDEL 302 – Curriculum and Pedagogy in Elementary School Art OR</del></li> <li>● <del>EDEL 325 – Curriculum and Pedagogy in Elementary School Music OR</del></li> <li>● <del>EDEL 345 – Introduction to Curriculum and Pedagogy in Elementary School Health Education</del></li> </ul> <ul style="list-style-type: none"> <li>● <del>EDPS 410 – Ethics and Law in Teaching</del></li> </ul> <p>Removed language</p>	<ol style="list-style-type: none"> <li>2. The Introductory Professional Term is normally offered in Year 4 Winter Term only and consists of EDFX 325, ★6 EDEL courses, and EDPY 303.</li> <li>3. The Advanced Professional Term is normally offered in Year 5 Fall Term only and consists of EDFX 425, ★3 EDEL, and EDPY 301.</li> <li>4. Not all courses are offered each term or in a 13-week or condensed format.</li> <li>5. Students should be aware of course prerequisites and refer to their individual program sheets for the proper sequencing of courses.</li> </ol> <p>New language</p>
---	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.  
 KSR Undergraduate Programs Committee: November 8<sup>th</sup>, 2023 approval  
 KSR Faculty Executive: November 22<sup>nd</sup>, 2023 approval  
 KSR Faculty Council: November 29<sup>th</sup>, 2023 approval  
 Program Support Team (Undergraduate & Non-Credit): for omnibus consent agenda December 14<sup>th</sup>, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 Dr. Jennifer L. Branch-Mueller, Associate Dean, Academic, Teaching and Learning, Faculty of Education

Faculty (& Department or Academic Unit):	FoKSR
Contact Person:	Angela L. Bayduza Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only) [?]	• Undergraduate
	• Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Since governance approval pathways were completed (in Feb 2023) for implementation of the new In Field Learning (IFL) model across undergraduate programming in the Faculty of KSR beginning in the Fall of 2024, the Faculty of KSR has created a position within the Faculty to drive implementation.

The IFL model is an experiential learning structure focused on the provision of high density, rich, and applied outcomes based learning and learning opportunities more closely aligned with the Work Integrated Learning (WIL) principles of Field Placements. Upon joining the Faculty of KSR, the Practicum and Experiential Learning Lead has been tasked with immersing themselves in understanding the current, soon to be old Practicum model, and its administration. As well, the Practicum and Experiential Learning Lead has been actively involved with infusing their vision and experience within the development of an implementation strategy for the the new IFL model where students will be provided a variety of short term, micro, and macro intensive hands-on practical experiences, in settings relevant to their subjects of study and career pathways (reference: [CEWIL Canada - What is Work Integrated Learning \(WIL\)](#)). The Practicum and Experiential Learning Lead will champion the transition to and implementation of the new IFL model as well as complete the teach out phase of the old Practicum model.

Based upon the integration of the Practicum and Experiential Learning Lead into the Faculty of KSR, the following proposal reflects an advancement of the IFL model from an implementation perspective. The most substantive change within the course description proposal that follows is the condensing content of the two originally proposed IFL courses, KRLS 290 Career Explorations and KRLS 291 Professional Practice & Interpersonal Skill Building, into the first introductory foundational course now proposed to be titled KRLS 290 Introduction to In Field, Practice-Based, Learning: Career Explorations & Interpersonal/Interdisciplinary Competency Building. This new proposed course description of KRLS 290 results in a much more focused job shadowing and career exploration focus, as well as increased attention to interpersonal, interdisciplinary, and collaborative practice skill development and the flow of IFL course completion. KRLS 290 now becomes the foundational, preparatory IFL course and KRLS 291 now becomes the much more focused course on becoming the primary building block for student connection and networking to placements and opportunities.

Another substantive change is the creation of completion pathways (see [this link](#)). The addition of two new IFL courses (KRLS 391 Research Skills Development and KRLS 499 Student Directed Research Project) reflects a Research Pathway to take action upon two key Faculty of KSR strategic objectives: Delivering Transformational Pedagogy and Supporting Research Excellence. The addition of this research pathway and subsequent courses, allows for direct connection to researchers and research labs within and outside of Faculty, a focused and purposeful development of

fundamental research skills, and an opportunity and advantage for KSR undergraduate students to develop applied research competencies necessary for further academic careers and or careers in the research/innovation sphere outside of academia. A clarification of prerequisites of coursework within the IFL electives also further establishes these completion pathways and direction for students in meeting the requirements of their degree program and personal goals and objectives within the various available pathways.

The addition of a third new IFL course (KRLS 492 – In Field, Practice-Based, Learning – Comprehensive Micro Field Experience) in combination with the original KRLS 493 - In Field, Practice-Based, Learning - Comprehensive Field Experience, allows for the creation of a Comprehensive Field Experience Pathway that presents students opportunity to complete the IFL requirements from both a micro (3 units) or macro (6 units) placement perspective depending on an individual student’s own personal context, as well as placement partner needs. The two IFL courses will be scheduled and delivered together as a slash course scenario where the same curriculum and content, course learning objectives are delivered to attend to resourcing needs and limitations and students will enroll in and be assigned credit by the number of placement hrs expected to be completed and in accordance with student program completion room (e.g. room in program and IFL course completion of min of 9 to max of 12 credits).

These proposed changes to the course offerings of the recently approved KSR IFL delivery structure are intended to increase integration of engagement in career exploration, a more comprehensive understanding of professional certifying bodies, exposure to a wider array of work-integrated learning experiences, and a heightened awareness of one's professional identity and its relevance to their chosen career path or academic goals at an earlier stage of the degree program and more consistently across the programs as well. The proposed changes to the In Field Learning course structure also emphasize more profoundly the delivery of high-density, enriched, and outcomes-based learning experiences that align much more closely with the principles of Work Integrated Learning (WIL) in the context of field placements and in meeting Faculty and University wide strategic objectives (e.g., II + EDI Initiatives, Student Experience, and the Undergraduate Research Initiative). Lastly, the proposed changes to the In Field Learning course delivery structure also continues in the commitment to increase flexibility to students, supporting program completion through three dedicated IFL pathways (e.g., Research, Interdisciplinary, and Comprehensive pathways; see [this link](#)), accessibility, inclusivity, and fostering active engagement with outcome-based learning through a wider range of In Field Learning opportunities they can access and decide to pursue within the resourcing limitations of the faculty currently.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>KRLS 290 – An Introduction to In Field Learning: Career Explorations</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> Variable  <b>Fee index</b> 6  <b>Faculty</b> Kinesiology, Sport, &amp; Rec  <b>Department</b> Kinesiology, Sport, &amp; Rec  <b>Typically Offered</b> Variable</p> <p><b>Description</b>                      In this course, students will <b>explore the breadth of career paths and scope of practice that can be pursued</b> with their</p>	<p><b>KRLS 290 – Introduction to In Field Learning: Career Explorations &amp; Interpersonal/Interdisciplinary Competency Building</b>  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> Variable  <b>Fee index</b> 6  <b>Faculty</b> Kinesiology, Sport, &amp; Rec  <b>Department</b> Kinesiology, Sport, &amp; Rec  <b>Typically Offered</b> Variable</p> <p><b>Description</b>                      In this course, students will <b>embark on a journey to explore</b></p>

degrees. Strategies for conducting job searches, application and resume writing skills, interviewing and networking skills, and engaging stakeholders will also be addressed. Throughout the course, students will be tasked with creating a professional portfolio to be built upon and utilized as they progress through their remaining program, in field learning courses, and as they enter into their careers. Through multiple micro career explorations and informational interviewing with established practicing professionals students will be connected with throughout the course (e.g., alumni, practitioners in professions of interest), students will discover and uncover how professionals use degree knowledge to build careers. Through these micro career experiences (variable; ~1-4 hrs/week or ~15-60 hrs/term), students will be guided in learning how to identify and articulate transferable skills from all of their own experiences, including from their academic program, that can then be utilized in their future career journey. Notes: Classroom/tutorial sessions are variable per week in addition to the micro career explorations and in field learning experiences with working professionals students will engage with throughout the course. Prerequisite: Successful completion of 45 course units.

**KRLS 291 – In Field, Practice-Based, Learning – Professional Practice & Interpersonal Skill Building Course Career Undergraduate**

**Units** 3

**Approved Hours** Variable

**Fee index** 6

**Faculty** Kinesiology, Sport, & Rec

**Department** Kinesiology, Sport, & Rec

**Typically Offered** Variable

**Description**

This course provides students the opportunity to develop knowledge and competencies in interpersonal theory specific to Kinesiology, Sport, and/or Recreation settings. Content covered in this course include such topics as effective verbal, non-verbal, and written communication strategies, active listening with patients/clients, reflective practice, managing conflict and difficult conversations, negotiations in the workplace, decision making, leadership, respect for diversity, intercultural competence, self-awareness, collaboration, teamwork and interdisciplinary practice, and generating and synthesizing evidence, and applying ethical principles. This course draws upon previous coursework and integrates theory and practice across course learning activities to apply the course

diverse career opportunities aligned with their degrees. Students will acquire essential skills and strategies for job searches, resume writing, interviews, and networking, all while actively engaging with professional stakeholders. Additionally, students will undertake the development of a dynamic professional portfolio, a resource that will accompany them throughout their academic journey, in-field experiences, and future careers. This course will also examine interpersonal theory within Kinesiology, Sport, and Recreation settings. Covering topics like communication, attentive listening, conflict resolution, negotiation, leadership, fostering diversity appreciation, developing intercultural competence, enhancing self-awareness, promoting teamwork and team based care, synthesizing evidence, and upholding ethical principles. Practical insights will be obtained from micro career explorations and informational interviews, allowing students to allocate flexible time commitments of 1-4 hours weekly or 15-60 hours per term. These experiences will empower students to cultivate effective career-building strategies and articulate transferable skills derived from their diverse experiences. Notes: Classroom/tutorial sessions are variable per week in addition to the micro career explorations and in field learning experiences with working professionals students will engage with throughout the course. Prerequisite: Successful completion of 45 course units.

**KRLS 291 – In Field, Practice-Based, Learning – Introduction to Professional Practice Course Career Undergraduate**

**Units** 3

**Approved Hours** Variable

**Fee index** 6

**Faculty** Kinesiology, Sport, & Rec

**Department** Kinesiology, Sport, & Rec

**Typically Offered** Variable

**Description**

In this course, students will have the opportunity to apply their knowledge and competencies in interdisciplinary theory within the specific context of Kinesiology, Sport, and Recreation settings. This course builds upon prior coursework and integrates theory and practice throughout various learning activities. The course will provide students with the skills necessary to apply the course content across a wide spectrum of populations, settings, and career paths within the field of Kinesiology, Sport, and Recreation. Throughout the course, students will engage in multiple short group micro field placements, each with variable time commitments, typically ranging from approximately ~ 1 to 4 hours per week or ~ 15 to 60 hours per term. These placements will encompass various and

content to the breadth of populations, settings, and career pathways within the field of Kinesiology, Sport, and Recreation. As a part of the course, students will participate in multiple micro field placements (variable; ~1-4 hrs/ week or ~15-60 hrs/term) with assigned mentors, observing and engaging in interpersonal relations and participating in the planning and implementation of programs as is appropriate. Notes: Classroom/tutorial sessions are variable per week in addition to the micro in field learning experiences. Prerequisite: Successful completion of KRLS 290.

---New Course---

**KRLS 392 – In Field, Practice-Project Based, Learning – Interdisciplinary Problem Solving**  
 Course Career Undergraduate  
 Units 3  
 Approved Hours Variable  
 Fee index 6  
 Faculty Kinesiology, Sport, & Rec  
 Department Kinesiology, Sport, & Rec  
 Typically Offered Variable

diverse aspects of Kinesiology, Sport, and Recreation and involve interactions with various populations and various contexts. Students will have the opportunity to observe and actively engage in interpersonal relations, as well as participate in the planning and execution of relevant programs. Notes: Classroom/tutorial sessions are variable per week in addition to the micro in field learning experiences. Prerequisite: Successful completion of KRLS 290.

**KRLS 391 - In Field, Practice-Based, Learning – Research Skills Development**  
 Course Career Undergraduate  
 Units 3  
 Approved Hours Variable  
 Fee index 6  
 Faculty Kinesiology, Sport, & Rec  
 Department Kinesiology, Sport, & Rec  
 Typically Offered Variable

**Description**

In this micro field placement (variable; ~4 hrs/ week or ~60 hrs/term) research experience based course, students will work in the research labs and/or on the research projects of KSR faculty members. Students will work to develop and practice the various aspects of the research process including data collection/analysis, literature searches, manuscript writing, effective presentation skills, both written and oral/visual communication skills, ethical behaviour consistent with the responsible conduct of research and professional practice in working within the research process, etc. In addition to hands-on work in the research environment, the course will also include a seminar series covering research topics and methods typically used in the Faculty of KSR, and the Kinesiology, Sport, and Recreation Fields. Notes: Classroom/tutorial sessions are variable per week in addition to micro in field learning experiences scheduled for each iteration of the course. Normally completed over one term. Prerequisite: Successful completion of KRLS 291.

**KRLS 392 – In Field, Practice-Based, Learning – Interdisciplinary Projects**  
 Course Career Undergraduate  
 Units 3  
 Approved Hours Variable  
 Fee index 6  
 Faculty Kinesiology, Sport, & Rec  
 Department Kinesiology, Sport, & Rec  
 Typically Offered Variable



**Description**

In this project, micro field placement (variable; ~1-4 hrs/ week or ~15-60 hrs/term) based course, students will work in small interdisciplinary teams to analyze a complex problem and propose a **solution (strategies and interventions)** to address a real-world issue and context. Students will apply theoretical knowledge to attempt to solve practical challenges they identify, demonstrate their understanding of the challenge and potential solutions through presentation of their ideas, and design an implementation and evaluation strategy. Students will be asked to draw connections between their theoretical course learnings and the practical application of skills through discussion of proposed solutions with team members and other course participants. With the support of the Course Instructor, **Practicum Advisor**, and Industry Partners, students will visualize, identify, and articulate how the practical application of their knowledge altered their self-efficacy in the competency areas required of the experience. Notes: Classroom/tutorial sessions are variable per week in addition to micro in field learning experiences scheduled for each iteration of the course. Prerequisite: Successful completion of KRLS 291.

---New Course---

**Description**

In this project, micro field placement (variable; ~1-4 hrs/ week or ~15-60 hrs/term) based course, students will work in small interdisciplinary teams to analyze a complex problem and propose a **community led initiative** to address a real-world issue and context. Students will apply theoretical knowledge and **collaborate with community partners to address** practical challenges. **Students will present their practical understanding showcasing** their ideas, designs of implementation and evaluation strategies **with the community partner**. Students will be asked to draw connections between their theoretical course learnings and the practical application of skills through discussion of proposed solutions with **the community partner**, team members, and other course participants. With the support of the Course Instructor, **Faculty Experiential Lead**, and **Community Partners**, students will visualize, identify, and articulate how the practical application of their knowledge altered their self-efficacy in the competency areas required of the experience. Notes: Classroom/tutorial sessions are variable per week in addition to micro in field learning experiences scheduled for each iteration of the course. Prerequisite: Successful completion of KRLS 291.

**KRLS 492 – In Field, Practice-Based, Learning – Comprehensive Micro Field Experience**

Course Career Undergraduate

Units 3

Approved Hours Variable

Fee index 6

Faculty Kinesiology, Sport, & Rec

Department Kinesiology, Sport, & Rec

Typically Offered Variable

**Description**

Students will participate in a singular, comprehensive, high-density, micro learning (variable; ~ 4 hrs/ week or ~60 hrs/term), In Field Learning placement with an assigned mentor. During this intensive in the field learning experience, students will become fully integrated into the work of their assigned Field Placement that will provide students with an intensive short term, hands-on practical experience in a setting relevant to their subject of study and lead to relatively independent work by the completion of the placement. Students will work towards contributing to their assigned field placement's capacity, critically assessing issues, designing, implementing and evaluating strategic initiatives, while at the same time gaining confidence and skills as a practicing professional under the direction of the course instructor and the placement mentor. Students will report back to the course instructor regularly i). proposed ideas and plans for work appropriate

**KRLS 493 – In Field, Practice-Based, Learning – Comprehensive Placement**

Course Career Undergraduate

Units 6

Approved Hours Variable

Fee index 12

Faculty Kinesiology, Sport, &amp; Rec

Department Kinesiology, Sport, &amp; Rec

Typically Offered Variable

**Description**

Students will participate in a singular, comprehensive, high-density, macro learning (variable; ~8-12 hrs/week or ~120-180 hrs/term), In Field Learning placement with an assigned mentor. During this intensive in the field learning experience, students will become fully integrated into the work at their assigned Field Placement that will provide students with an intensive short term hands-on practical experience in a setting relevant to their subject of study and lead to relatively independent work by the completion of the placement. Students will work towards contributing to their assigned field placement's capacity, critically assessing issues, designing, implementing and evaluating strategic initiatives, and/or engaging actively in research while at the same time gaining confidence and skills as a practicing professional under the direction of the course instructor and the placement mentor. Students will report back to the course instructor regularly i). proposed ideas and plans for work appropriate to the working environment that aligns with the settings mission, values, and workflow; ii). information collected and resources utilized that were needed to assess and complete work functions; iii) evaluation of what skill sets are required to complete work functions, and iv). judgements on whether their current skill set meets the identified work functions. Notes: Classroom/tutorial sessions are variable per week in addition to the macro in field learning experience. Prerequisite: Successful completion of KRLS 290 or KRLS 291.

to the working environment that aligns with the settings mission, values, and workflow; ii). information collected and resources utilized that were needed to assess and complete work functions; iii) evaluation of what skill sets are required to complete work functions, and iv). judgements on whether their current skill set meets the identified work functions. Notes: Normally for students in their fourth year of study. Classroom/tutorial sessions are variable per week in addition to the micro in field learning experience. May be taken concurrently with KRLS 493. Prerequisite: Successful completion of KRLS 291.

**KRLS 493 – In Field, Practice-Based, Learning – Comprehensive Macro Field Experience**

Course Career Undergraduate

Units 6

Approved Hours Variable

Fee index 12

Faculty Kinesiology, Sport, &amp; Rec

Department Kinesiology, Sport, &amp; Rec

Typically Offered Variable

**Description**

Students will participate in a singular, comprehensive, high-density, macro (variable; ~8-12 hrs/week or ~120-180 hrs/term), In Field Learning placement with an assigned mentor. During this intensive in the field learning experience, students will become fully integrated into the work of their assigned Field Placement that will provide students with an intensive short term, hands-on practical experience in a setting relevant to their subject of study and lead to relatively independent work by the completion of the placement. Students will work towards contributing to their assigned field placement's capacity, critically assessing issues, designing, implementing and evaluating strategic initiatives, while at the same time gaining confidence and skills as a practicing professional under the direction of the course instructor and the placement mentor. Students will report back to the course instructor regularly i). proposed ideas and plans for work appropriate to the working environment that aligns with the settings mission, values, and workflow; ii). information collected and resources utilized that were needed to assess and complete work functions; iii) evaluation of what skill sets are required to complete work functions, and iv). judgements on whether their current skill set meets the identified work functions. Notes: Normally for students in their fourth year of study. Classroom/tutorial sessions are variable per week in addition to the macro in field learning experience. May be taken concurrently with KRLS 492. Prerequisite: Successful completion of KRLS 291.



**KRLS 496 – In Field, Practice-Based, Learning – Directed Project**

Course Career Undergraduate

Units 3

Approved Hours Variable

Fee index 6

Faculty Kinesiology, Sport, &amp; Rec

Department Kinesiology, Sport, &amp; Rec

Typically Offered Variable

**Description**

A course designed to meet the needs of individual students in completion of the In Field Learning requirements of their degree program. A singular, comprehensive, high-density, micro experience (variable; ~1-4 hrs/ week or ~15-60 hrs/term), in combination with academically focused work, completed under the supervision, mentorship, and direction of an academic member in the Faculty of Kinesiology, Sport, and Recreation or approved affiliate. Normally for students in their fourth year of study. Notes: Classroom/tutorial sessions are variable per week in addition to the micro in field learning experience. Prerequisite: KRLS 290 or KRLS 294 and consent of the Associate Dean (Undergraduate Programs). Students must arrange a project with an academic staff member or approved affiliate.

---New Course---

**KRLS 498 – In Field, Practice-Based, Learning – Student Directed Community Based Project**

Course Career Undergraduate

Units 6

Approved Hours Variable

Fee index 6

Faculty Kinesiology, Sport, &amp; Rec

Department Kinesiology, Sport, &amp; Rec

Typically Offered Variable

**Description**

A course designed to meet the needs of individual students in completion of the In Field Learning requirements of their degree program. A singular, comprehensive, high-density, macro experience (variable; ~8-12 hrs/week or ~120-180 hrs/term), in combination with academically focused work, completed under the direct supervision, mentorship, and instruction of an academic member in the Faculty of Kinesiology, Sport, and Recreation or approved affiliate. Normally for students in their fourth year of study. Notes: Classroom/tutorial sessions are variable per week in addition to the macro in field learning experience. Prerequisite: Successful completion of KRLS 392 and consent of the KSR Experiential Learning Lead. Students must arrange a project with an academic staff member or approved affiliate.

**KRLS 499 – In Field, Practice-Based, Learning – Student Directed Research Project**

Course Career Undergraduate

Units 3

Approved Hours Variable

Fee index 6

Faculty Kinesiology, Sport, &amp; Rec

Department Kinesiology, Sport, &amp; Rec

Typically Offered Variable

**Description**

A course designed to meet the needs of individual students in completion of the In Field Learning requirements of their degree program. A singular, comprehensive, high-density, research experience (variable; ~8 hrs/week or ~120 hrs/term), in combination with academically focused work, completed under the direct supervision, mentorship, and instruction of an academic member in the Faculty of Kinesiology, Sport, and Recreation or approved affiliate. Normally for students in their fourth year of study. Notes: Successful completion of KRLS 391 recommended and consent of the KSR Experiential Learning Lead. Students must arrange a project with an academic staff member or approved affiliate.

New language

<p>Removed language</p>	
-------------------------	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. KSR Undergraduate Programs Committee: November 8<sup>th</sup>, 2023 approval KSR Faculty Executive: November 22nd, 2023 approval KSR Faculty Council: November 29th, 2023 approval Program Support Team (Undergraduate &amp; Non-Credit): for omnibus consent agenda December 14th, 2023</p>
--

<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates. Dr. J. Sheppard, KSR Practicum and Experiential Learning Lead KSR Students Services Office Staff Nicole Lazorek, KSR Manager Academic Programs Dr. Kyra Pyke, Dean Faculty of KSR</p>
--

Faculty (& Department or Academic Unit):	FoKSR
Contact Person:	Angela L. Bayduza Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Since governance approval pathways were completed (in Feb 2023) for implementation of the new In Field Learning (IFL) model across undergraduate programming in the Faculty of KSR beginning in the Fall of 2024, the Faculty of KSR has created a position within the Faculty to drive implementation.

The IFL model is an experiential learning structure focused on the provision of high density, rich, and applied outcomes based learning and learning opportunities more closely aligned with the Work Integrated Learning (WIL) principles of Field Placements. Upon joining the Faculty of KSR, the Practicum and Experiential Learning Lead has been tasked with immersing themselves in understanding the current, soon to be old Practicum model, and its administration. As well, the Practicum and Experiential Learning Lead has been actively involved with infusing their vision and experience within the development of an implementation strategy for the the new IFL model where students will be provided a variety of short term, micro, and macro intensive hands-on practical experiences, in settings relevant to their subjects of study and career pathways (reference: [CEWIL Canada - What is Work Integrated Learning \(WIL\)](#)). The Practicum and Experiential Learning Lead will champion the transition to and implementation of the new IFL model as well as complete the teach out phase of the old Practicum model.

Based upon the integration of the Practicum and Experiential Learning Lead into the Faculty of KSR, the following proposal reflects an advancement of the IFL model from an implementation perspective. The most substantive change within the course description proposal that follows is the condensing content of the two originally proposed IFL courses, KRLS 290 Career Explorations and KRLS 291 Professional Practice & Interpersonal Skill Building, into the first introductory foundational course now proposed to be titled KRLS 290 Introduction to In Field, Practice-Based, Learning: Career Explorations & Interpersonal/Interdisciplinary Competency Building. This new proposed course description of KRLS 290 results in a much more focused job shadowing and career exploration focus, as well as increased attention to interpersonal, interdisciplinary, and collaborative practice skill development and the flow of IFL course completion. KRLS

290 now becomes the foundational, preparatory IFL course and KRLS 291 now becomes the much more focused course on becoming the primary building block for student connection and networking to placements and opportunities.

Another substantive change is the creation of completion pathways (see [this link](#)). The addition of two new IFL courses (KRLS 391 Research Skills Development and KRLS 499 Student Directed Research Project) reflects a Research Pathway to take action upon two key Faculty of KSR strategic objectives: Delivering Transformational Pedagogy and Supporting Research Excellence. The addition of this research pathway and subsequent courses, allows for direct connection to researchers and research labs within and outside of Faculty, a focused and purposeful development of fundamental research skills, and an opportunity and advantage for KSR undergraduate students to develop applied research competencies necessary for further academic careers and or careers in the research/innovation sphere outside of academia. A clarification of prerequisites of coursework within the IFL electives also further establishes these completion pathways and direction for students in meeting the requirements of their degree program and personal goals and objectives within the various available pathways.

The addition of a third new IFL course (KRLS 492 – In Field, Practice-Based, Learning – Comprehensive Micro Field Experience) in combination with the original KRLS 493 - In Field, Practice-Based, Learning - Comprehensive Field Experience, allows for the creation of a Comprehensive Field Experience Pathway that presents students opportunity to complete the IFL requirements from both a micro (3 units) or macro (6 units) placement perspective depending on an individual student’s own personal context, as well as placement partner needs. The two IFL courses will be scheduled and delivered together as a slash course scenario where the same curriculum and content, course learning objectives are delivered to attend to resourcing needs and limitations and students will enroll in and be assigned credit by the number of placement hrs expected to be completed and in accordance with student program completion room (e.g. room in program and IFL course completion of min of 9 to max of 12 credits).

These proposed changes to the course offerings of the recently approved KSR IFL delivery structure are intended to increase integration of engagement in career exploration, a more comprehensive understanding of professional certifying bodies, exposure to a wider array of work-integrated learning experiences, and a heightened awareness of one’s professional identity and its relevance to their chosen career path or academic goals at an earlier stage of the degree program and more consistently across the programs as well. The proposed changes to the In Field Learning course structure also emphasize more profoundly the delivery of high-density, enriched, and outcomes-based learning experiences that align much more closely with the principles of Work Integrated Learning (WIL) in the context of field placements and in meeting Faculty and University wide strategic objectives (e.g., II + EDI Initiatives, Student Experience, and the Undergraduate Research Initiative). Lastly, the proposed changes to the In Field Learning course delivery structure also continues in the commitment to increase flexibility to students, supporting program completion through three dedicated IFL pathways (e.g., Research, Interdisciplinary, and Comprehensive pathways; see [this link](#)), accessibility, inclusivity, and fostering active engagement with outcome-based learning through a wider range of In Field Learning opportunities they can access and decide to pursue within the resourcing limitations of the faculty currently.

## Calendar Copy

URL in current Calendar:

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=54575](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=54575)

**Current Copy:** ~~Removed language~~

**Proposed Copy:** New language

**In Field Learning Courses - Kinesiology, Sport and Recreation**

An important element of KSR undergraduate programs is the required completion of In Field Learning (with the exception of the BKin/BEEd combined degree program). This element of KSR undergraduate programming provides students with real world connection of theory into practice, career exploration, understanding of professional certifying standards, and access to a multitude of diverse work-integrated learning experiences with a large sampling of populations and cultures.

The following list of In Field Learning courses present experiences that complement program knowledge, previous work and volunteer history, as well as learning objectives.

**NOTE:** for students admitted to BARST, BKin, or BScKin in the Fall of 2024 and onwards, as well as for those students approved by the Faculty of KSR to transition their program to the new structure.

**Courses:**

- KRLS 290 - Introduction to In Field Learning: Career Explorations
- KRLS 291 - In Field, Practice-Based, Learning - Professional Practice & ~~Interpersonal Skill Building~~
- KRLS 392 - In Field, Practice-Based, Learning - Interdisciplinary ~~Problem Solving~~
- KRLS 493 - In Field, Practice-Based, Learning - Comprehensive Placement
- KRLS 498 - In Field, Practice-Based, Learning - Directed Project

Removed language

**In Field Learning Courses - Kinesiology, Sport and Recreation**

An important element of KSR undergraduate programs is the required completion of In Field Learning (with the exception of the BKin/BEEd combined degree program). This element of KSR undergraduate programming provides students with real world connection of theory into practice, career exploration, understanding of professional certifying standards, and access to a multitude of diverse work-integrated learning experiences with a large sampling of populations and cultures.

The following list of In Field Learning courses present experiences that complement program knowledge, previous work and volunteer history, as well as learning objectives.

**NOTE:** for students admitted to BARST, BKin, or BScKin in the Fall of 2024 and onwards, as well as for those students approved by the Faculty of KSR to transition their program to the new structure.

**Courses:**

- KRLS 290 - Introduction to In Field, Practice-Based, Learning: Career Explorations & Interpersonal/Interdisciplinary Competency Building
- KRLS 291 - In Field, Practice-Based, Learning - **Introduction to** Professional Practice
- KRLS 391 - In Field, Practice-Based, Learning: **Research Skills Development (NEW)**
- KRLS 392 - In Field, Practice-Based, Learning - Interdisciplinary Projects
- KRLS 492 - In Field, Practice-Based, Learning - **Comprehensive Micro Field Experience (NEW)**
- KRLS 493 - In Field, Practice-Based, Learning - Comprehensive **Macro Field Experience**
- KRLS 498 - In Field, Practice-Based, Learning - Student Directed **Community Based Project**
- KRLS 499 - In Field, Practice-Based, Learning - Student Directed **Research Project (NEW)**

New language

**Reviewed/Approved by:**

**REQUIRED:**

KSR Undergraduate Programs Committee: November 8th, 2023 approval  
 KSR Faculty Executive: November 22nd, 2023 approval  
 KSR Faculty Council: November 29th, 2023 approval  
 Program Support Team (Undergraduate & Non-Credit): for omnibus consent agenda December 14th, 2023

**OPTIONAL:** Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
 Dr. J. Sheppard, KSR Practicum and Experiential Learning Lead  
 KSR Students Services Office Staff

Nicole Lazorek, KSR Manager Academic Programs  
Dr. Kyra Pyke, Dean Faculty of KSR

Faculty (& Department or Academic Unit):	FoKSR
Contact Person:	Angela Bayduza KSR Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only) [?]	• Undergraduate
	• Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Currently the Faculty of KSR does not have a mechanism to allow an undergraduate student to complete a research thesis and be afforded the benefits from an undergraduate research experience that a course such as KRLS 500 can provide (Petrella & Jung, 2008, [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4739295/pdf/ijes\\_01\\_03\\_91.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4739295/pdf/ijes_01_03_91.pdf)) within the completion of their undergraduate program. The proposed new course, KRLS 500, is intended to fill this gap for those students who are inclined to gain experience of completing an undergraduate thesis. As well, this opportunity presents an advantage for KSR undergraduate students for meeting entrance requirements/desired experience when continuing on to graduate studies.

The addition of this Senior Undergraduate Research Thesis two term course offers a research focused opportunity for undergraduate students to demonstrate, on a small but relevant scale, scholastic work that contributes to scholarship within their undergraduate studies. This proposed new course will serve as an introduction to a realistic research experience in that it will provide an environment for an incremental, mentor/thesis advisor supported, knowledge construction that is tightly bound by both the time frame of two academic terms and supervisor resources. For example, within the approvals process it will be made clear to students that completion of the senior undergraduate research thesis should, by design, not extend their time in their KSR program. There may be unusual circumstances that develop where graduation deferral to complete the thesis may be warranted, but that will not be the initial plan. In terms of resources, costs related to implementing the thesis research will be covered by the supervising faculty member's research funds, or in more unusual circumstances, by research funds granted to the student through undergraduate research funding opportunities.

KRLS 500 will provide students with a realistic and important litmus test to assess their interest in pursuing a career focused on research.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
----------------------------------	-------------------------------

<p>---NEW---</p>	<p><b>KRLS 500 - Senior Undergraduate Research Thesis</b>  <b>Course Career Undergraduate</b>  <b>Units 6</b>  <b>Approved Hours Variable</b>  <b>Fee index 12</b>  <b>Faculty Kinesiology, Sport, &amp; Recreation</b>  <b>Department Kinesiology, Sport, &amp; Recreation</b>  <b>Typically Offered Two-term</b></p> <p><b>Description</b>  Students will pursue a topic of interest at an advanced level in an area relevant to their program of studies in the Faculty of Kinesiology, Sport, and Recreation and engage in an intensive self-directed study implementation under the supervision of a faculty member. Students are required to complete a detailed research proposal (with literature review and ethics approval if appropriate) in the Fall Term and the implementation of the study in the Winter Term. The Senior Undergraduate thesis involves the definition of an independent research proposal from the student, as well as the implementation of the research project, submission of the completed undergraduate research thesis, and a formal presentation of the project findings. <b>NOTE: Students must arrange for a faculty member approved by the Faculty of Kinesiology, Sport, and Recreation to oversee their thesis. Permission for enrollment in this course is required from the Associate Dean, Undergraduate Programs in the Faculty of Kinesiology, Sport, and Recreation. Students must contact their assigned academic advisor for information regarding application and completion requirements. Students must be in their fourth or final year standing in a Faculty of KSR undergraduate program and have achieved a cumulative GPA of a minimum of 3.0 at the time of application.</b></p>
------------------	--

### Reviewed/Approved by:

<p>REQUIRED: Faculty Council (or delegate) and approval date.  KSR Undergraduate Programs Committee: November 8<sup>th</sup>, 2023 approval  KSR Faculty Executive: November 22nd, 2023 approval  KSR Faculty Council: November 29th, 2023 approval  Program Support Team (Undergraduate &amp; Non-Credit): for omnibus consent agenda December 14th, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  Dr. J. Sheppard, KSR Practicum and Experiential Learning Lead  KSR Students Services Office Staff  Nicole Lazorek, KSR Manager Academic Programs  Dr. Kyra Pyke, Dean Faculty of KSR</p>





**Internal Suspension and Termination Template  
- for-credit programs not requiring Ministry approval -**

This template is to be used for proposals to suspend or terminate the following program types that do not require Ministry approval:

- Second-level specializations (e.g., minors of undergraduate programs, Honors streams of existing undergraduate programs, and second-level specializations of graduate programs)
- Embedded certificates

Faculties and Departments must consult with the Portfolio Initiatives Manager in the Office of the Provost and Vice-President (Academic) ([carley.roth@ualberta.ca](mailto:carley.roth@ualberta.ca)) on the appropriate template and process. Graduate proposers must also consult with the Faculty of Graduate Studies and Research ([fsgov@ualberta.ca](mailto:fsgov@ualberta.ca)).

**PROPOSAL TYPE**

<b>This proposal is for a (select one):</b>	
<input checked="" type="checkbox"/>	Suspension - Complete <a href="#">Section A</a> only
<input type="checkbox"/>	Termination - Complete <a href="#">Section B</a> only

**SECTION A: SUSPENSION**

Suspension of a program means to suspend admissions, thereby allowing currently enrolled students to complete the requirements while preventing new students from enrolling. Suspensions are typically implemented for a five-year period. A period of suspension must precede the termination of a program.

<b>1: Basics</b>		
<b>Specialization/Embedded Certificate Name</b>	Research Certificate in Kinesiology (Effective September 2024)	
<b>Faculty/Department</b>	Faculty of Kinesiology, Sport, and Recreation (FoKSR)	
<b>Contact information</b>	Name and Title	Angela Bayduza Associate Dean Undergraduate Programs
	Phone	780-492-7379
	Email	ksradu@ualberta.ca
<b>Proposed start date of suspension</b>	July 1, 2024	

<b>Proposed end date of suspension</b>	June 30, 2029
<b>Attachments</b>	
X    A - Proposed Calendar changes X    B - Letter of Support from the Dean of the Faculty	

<b>2: Rationale, Implications, and Impacts</b>	
<p><b>Rationale for Suspension of Specialization / Embedded Certificate</b></p> <p>Explain the reason for the suspension with supporting evidence (e.g., low student demand, declining labour market demand, institutional capacity, need for program redevelopment, quality assurance review recommendation, etc.).</p>	<p>It has been determined that considerable foundational changes to both structure, purpose, and course offerings of this Research Certificate in Kinesiology (RCiK) would have to be made in order to bring it into compliance with the new <a href="#">Undergraduate Embedded Certificate Framework</a>. In order to bring the RCiK within between 12 and 18 required units (currently over by 3-6 units) and no more than 3 units overlap with required courses (currently over by 6-9 units), a complete rebuild of this embedded certificate will be necessary.</p> <p>This embedded certificate was built with the intention to be completed by BScKin and BKin students and of the objectives of the day, when a comprehensive framework of compliance did not exist. To meet the requirements of the new Undergraduate Embedded Certificate Framework, the RCiK completion requirements and objectives now require to be completely reimagined. If the RCiK is to continue to remain purposeful for BScKin and BKin programs students, as well as accessible to students outside of the BScKin and BKin programs, include an interdisciplinary focus, contribute to Indigenization, and be considerate of administrative demands in a sustainable way, the Faculty of KSR requires a substantial amount of time to complete a more thorough and thoughtful program design and recreation of the RCiK to be compliant.</p> <p>The FoKSR is also currently undergoing a curriculum review within all of its undergraduate programming. The required work to align the RCiK with the new Undergraduate Embedded Certificate Framework will parallel the curriculum review process which is expected to take a minimum of two years to complete. The FoKSR does not have the capacity to complete a more thorough and thoughtful program redesign and recreation of the RCiK outside of the curriculum review process by the Fall 2025 deadline for compliance. As a result, the suspension of the RCiK is intended to allow for the time for this work to occur while simultaneously making clear, by its suspension, that it does not align nor comply with current Faculty or Institutional strategic directions. The suspension of the RCiK will also allow administrative focus onto the rebuild and recreation of the RCiK in step with the curriculum review process while also managing to maintain the day to day administration of programming delivery.</p>

The current small demand for this certificate also does not indicate a substantial impact on students (average # completion of approx 7 students per year over the last 8 years). Research focused course offerings (both required and elective) will continue to be offered to students as well. Including the substantive research focused coursework that has been built into the new In Field Learning Pathway that will begin replacing practicums in Fall 2024.

**Document enrolments by head count for the most recent 5-year period**

Enrolment	2019	2020	2021	2022	2023
<b>Total Headcount</b>	6 BScKin - 4 BKin - 2	13 BScKin - 11 BKin - 2	12 BScKin - 11 BKin - 1	8 BScKin - 5 BKin - 3	6 BScKin - 3 BKin - 3
<b>Yr/Level of Program</b>	BScKin - 4 Y4 BKin - 2 Y4	1 Y2, 3 Y3, 7 Y4 1 Y3, 1Y4	4 Y3, 7 Y4 1 Y4	5 Y4 3 Y4	1 Y3, 2 Y4 1 Y3, 2 Y4

**Rationale for End date**

Briefly explain the rationale for the proposed end date for the suspension.

The RCiK was originally designed so that students could apply right before completion of their programs in order to be awarded the certificate at graduation. The majority of students who apply for the RCiK apply as year 4 students. As the above enrolment data shows, the majority of students who have applied for enrolment in the RCiK are at minimum in years 3 or 4 of their program. In the last 5 years there has only been one year 2 applicant into the RCiK.

If there are any further enrollments into the RCiK from this current academic year, they most likely will come from the year 3 or year 4 cohorts. However, the proposed suspension start and end dates encompass a five year period to allow time for completion of this year's active students as well as any other students who might apply between now and the suspension start date of July 1, 2024.

**Current Students**

Describe how active students will be assisted in completing graduation requirements during the suspension period, as well as information regarding formal communication plans.

The current small demand of this certificate does not indicate a substantial impact for students (average # of completions is approx 7 students per year over the last 8 years). Research focused course offerings (both required and elective), that are required for completion of the RCiK, will continue to be offered to active students as well, including the research focused coursework that has been built into the new In Field Learning Pathway that will begin replacing practicums in Fall 2024. All requirements of the RCiK will continue to be offered for active students during the suspension period. Communication of this information will occur through the Student Services Office, Advising sessions, the biweekly KSR UG newsletter, and through governance pathways (KSR UPC and Faculty Council) where undergraduate representation and participation is included.

All active students in the RCiK as of June 30, 2024 will be allowed to continue in completion of the RCiK.

<p><b>Stop-Out Students</b> Describe how stop-out students will be managed, including information regarding communication plans.</p>	<p>For the current 2023-2024 enrolment cohort, there are two year 3 students enrolled within the RCiK that the suspension period will need to account for. These active year 3 students would normally require 1 more year to complete the current requirements of the RCiK. However if these students, or even year 2 students who apply between now and the suspension start date, were to be granted a year's leave, the proposed suspension end date would be sufficient to cover the year's leave and the remaining time for program completion.</p> <p>The approach by the Faculty of has always been to readily accommodate formal student requests in circumstances such as these and there is no anticipation of that changing.</p> <p>Because the RCiK is structured in such a way that the course requirements overlap with degree specializations/majors and core course requirements, KSR anticipates that active students will not face significant challenges in completing the RCiK by the suspension period, even with having taken a year's leave.</p> <p>Options and supports will be communicated through announcements regarding the suspension of the RCiK that will be communicated through the KSRSS student group, placed in the Faculty bi-weekly Undergraduate Newsletter to all undergraduate students, in direct communications to students enrolled in the certificate, as well as in postings within the Student Service Office and advisement sessions and through governance pathways (KSR UPC and Faculty Council) where undergraduate representation and participation is included.</p>
<p><b>Consultation</b> Briefly describe the consultation process that occurred with students and other relevant stakeholders, and the feedback received.</p>	<ul style="list-style-type: none"> <li>- Dr. Janice Causgrove Dunn (Vice Provost (Programs), Provost &amp; Vice-President Academic) &amp; the Implementation of the Undergraduate Embedded Certificate Framework Team (November 10th, 2023)</li> <li>- Darcie Tessari, KSR Students Services Office Lead (November 16th, 2023)</li> <li>- Nicole Lazorek, KSR Manager Academic Programs (November 16th, 2023)</li> <li>- Dr. Kyra Pyke, Dean Faculty of KSR (November 16th, 2023)</li> <li>- KSR Undergraduate Programs Committee: November 8th, 2023 early consultation; January 10th, 2024 approval (pending)</li> <li>- KSR Faculty Executive: November 22nd, 2023 early consultation; January 24th, 2024 approval (pending)</li> <li>- KSR Faculty Council: November 29th, early consultation</li> </ul>
<p><b>Resource Implications</b> Identify relevant financial impact, including reallocation of internal resources.</p>	<p>No financial impacts are expected. Resources will be reallocated to advisement and the internal curriculum review process currently underway in the FoKSR with a parallel focus on envisioning the RCiK in alignment with the new Undergraduate Embedded Certificate Framework .</p>
<p><b>Approval Process</b> Indicate the internal governance path, including meeting dates</p>	<ul style="list-style-type: none"> <li>- Program Support Team (Undergraduate &amp; Non-Credit): December 14th, 2023 early consultation; for omnibus consent agenda January 25th, 2024 (pending)</li> <li>- KSR Undergraduate Programs Committee: January 10th, 2024 approval (pending)</li> <li>- KSR Faculty Executive: January 24th, 2024 approval (pending)</li> <li>- KSR Faculty Council: January 31, 2024 approval (pending)</li> </ul>

**SECTION B: TERMINATION**

Termination of a program means that the program has been eliminated and can no longer be offered. Terminations must be preceded by a period of suspension, typically five years.

1: Basics		
<b>Specialization / Embedded Certificate Name</b>		
<b>Faculty/Department</b>		
<b>Contact information</b>	Name and Title	
	Phone	
	Email	
<b>Proposed effective date of termination</b>		
<b>Attachments</b>		
<input type="checkbox"/> Proposed Calendar changes <input type="checkbox"/> Letter of Support from the Dean of the Faculty		

2: Rationale, Implications and Impacts	
<b>Rationale for Termination</b> Identify the reason(s) for the termination with supporting rationale and evidence.	
<b>Was the proposal preceded by a suspension?</b> If yes, please indicate the date of the suspension. If not, explain why a period of suspension was not implemented and indicate	

<p>when students were last admitted to the program.</p> <p><i>Note: terminations that are not preceded by a period of suspension must first be approved by the Vice-Provost (Programs) prior to entering the approval process.</i></p>	
<p><b>Consultation</b></p> <p>Describe the consultation process that occurred with relevant stakeholders.</p>	
<p><b>Communications</b></p> <p>Describe plans for communicating the termination decision to relevant stakeholders.</p>	
<p><b>Resource Implications</b></p> <p>Describe plans for reallocation of resources previously used for this Specialization/Embedded Certificate.</p>	
<p><b>Approval Process</b></p> <p>Indicate the internal governance path, including meeting dates</p>	

**Appendix A**  
**Calendar Change Request Form**  
 for Program and Regulation Changes  
 See the Calendar Guide for tips on how to complete this form.

Faculty (& Department or Academic Unit):	FoKSR
--	-------

Contact Person:	Angela Bayduza Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	no

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Upon implementation of the new [Undergraduate Embedded Certificate Framework](#), the Faculty of Kinesiology, Sport, and Recreation (KSR) was notified, that based upon the Vice Provost (Programs) & the Implementation of the Undergraduate Embedded Certificate Framework Team's analysis, the UG embedded Research Certificate in Kinesiology (RCiK) appeared to not be in compliance with the new Framework. In particular the RCiK currently has more than the maximum allowable credits and is only open or available to KSR students in the BScKin or BKin degree programs as the completion of this certificate requires considerably more than 3 units of overlap with required courses.

After internal review in KSR and a subsequent discussion with the Vice Provost (Programs) & the Implementation of the Undergraduate Embedded Certificate Framework Team, it was determined that considerable and foundational changes to both structure, purpose, and course offerings of this embedded certificate would have to be made in order to bring it into compliance. In order to bring the RCiK within the between 12 and 18 required units (currently over by 3-6 units) and no more than 3 units overlap with required courses (currently over by 6-9 units), a complete rethink and rebuild of this embedded certificate was determined to be necessary.

This embedded certificate was built with the intention to be completed by BScKin and BKin students primarily and of the objectives of the day, when a comprehensive framework of compliance did not exist. To meet the requirements of the new Undergraduate Embedded Certificate Framework, the RCiK completion requirements now require to be completely reimagined with a different purpose. If the RCiK is to still remain purposeful for BScKin and BKin programs students, but also more accessible to students outside of the BScKin and BKin programs, and include an interdisciplinary focus, contribute to Indigenization, and be considerate of administrative demands in a sustainable way, the Faculty of KSR requires a substantial amount of time to complete a more thorough and thoughtful program design and recreation of the RCiK.

The Faculty of KSR does not believe it currently has the capacity to complete a more thorough and thoughtful program redesign and recreation of the RCiK by the Fall 2025 deadline for compliance. As a result, the deletion of the RCiK is intended to allow for the time for this work to occur while simultaneously making clear, by its deletion, that it does not align or comply with current strategic directions. The deletion of the RCiK will also allow administrative focus onto the rebuild and recreation of the RCiK while continuing the day to day administration of programming. The current small demand of this certificate also does not indicate a substantial impact on students (average # completion, approx 7 students per year over the last 8 years). Research focused course offerings (both required and elective) will continue to





be offered to students as well, including the research focused coursework that has been built into the new In Field Learning Pathway that will begin replacing practicums in Fall 2024.

## Calendar Copy

<p>URL in current Calendar (or “New page”)  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=54578&amp;returnto=12345">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=54578&amp;returnto=12345</a></p>	
<p><b>Current Copy:</b> <del>Removed language</del></p>	<p><b>Proposed Copy:</b> New language</p>
<p><b><del>Research Certificate in Kinesiology (Effective September 2024)</del></b></p> <p><del>The Research Certificate in Kinesiology is open to undergraduate students in the Faculty of Kinesiology, Sport, and Recreation’s BSc Kin or BKin degree programs. Consent of the Faculty is required. Normally, a student will be able to fulfill the requirements for this certificate as part of a BSc Kin or BKin program although some students may need to complete more than the minimum number of credits required in order to qualify for both the degree and the certificate.</del></p> <p><del>Students may pursue the Research Certificate in Kinesiology by fulfilling the existing requirements for their program and by completing a minimum of 21 to a maximum of 24 units as follows:</del></p> <ol style="list-style-type: none"> <li><del>1. 9 to a maximum of 12 units from a list of 300- and 400-level approved option courses that include instruction and experience in research methods, data collection, data handling and analysis, interpretation, and/or practical skills. A maximum of 6 units may be selected from KIN 398, KIN 399, KIN 498 , or KRLS 495.</del></li> <li><del>2. Minimum of 9 to a maximum of 12 units of In Field Learning that is focused on research completed under the supervision of a University of Alberta academic faculty member or an approved research affiliate.</del></li> <li><del>3. Presentation at a conference either on or off campus.</del></li> </ol> <p><del>Students wishing to receive the Research Certificate in Kinesiology must apply through Undergraduate</del></p>	<p><b>Research Certificate in Kinesiology (Effective September 2024)</b></p> <p>Effective July 1, 2024 there will be no further admissions into the Research Certificate in Kinesiology. Students who entered the Research Certificate prior to June 30, 2024 will have until June 30, 2028 to complete all program requirements. Students can refer to the Calendar in effect at the time of their admission or readmission for the regulations governing the certificate requirements. The last degree with the Research Certificate in Kinesiology awarded, will be at Fall Convocation 2028.</p>

<p>Student Services in the Faculty of Kinesiology, Sport, and Recreation by the application deadline for convocation (see Academic Schedule).</p>	
---	--

**Reviewed/Approved by:**

<p><b>REQUIRED:</b>          Program Support Team (Undergraduate &amp; Non-Credit): December 14th, 2023 early consultation; for omnibus consent agenda January 25th, 2024 (pending)          KSR Undergraduate Programs Committee: November 8th, 2023 early consultation; January 10th, 2024 approval (pending)          KSR Faculty Executive: November 22nd, 2023 early consultation; January 24th, 2024 approval (pending)          KSR Faculty Council: November 29th, early consultation; January 31, 2024 approval (pending)</p>
<p><b>OPTIONAL:</b>          Dr. Janice Causgrove Dunn (Vice Provost (Programs), Provost &amp; Vice-President Academic) &amp; the Implementation of the Undergraduate Embedded Certificate Framework Team (November 10th, 2023)          Darcie Tessari, KSR Students Services Office Lead (November 16th, 2023)          Nicole Lazorek, KSR Manager Academic Programs (November 16th, 2023)          Dr. Kyra Pyke, Dean Faculty of KSR (November 16th, 2023)</p>

**Appendix B**  
**Letter of Support from the Dean of the Faculty**

To be completed

Faculty (& Department or Academic Unit):	FoKSR
Contact Person:	Angela Bayduza Associate Dean, Undergraduate Programs ksradu@ualberta.ca
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Undergraduate</li> </ul>
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Program</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Regulation</li> </ul>
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	no

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Upon implementation of the new [Undergraduate Embedded Certificate Framework](#), the Faculty of Kinesiology, Sport, and Recreation (KSR) was notified that based upon the Vice Provost (Programs) & the Implementation of the Undergraduate Embedded Certificate Framework Team's analysis, the UG embedded Research Certificate in Kinesiology (RCiK) appeared to not be in compliance with the new Framework. In particular the RCiK currently has more than the maximum allowable credits and is only open or available to KSR students in the BScKin or BKin degree programs as the completion of this certificate requires considerably more than 3 units of overlap with required courses.

After this notification and internal review in KSR, as well as a subsequent discussion with the Vice Provost (Programs) & the Implementation of the Undergraduate Embedded Certificate Framework Team, it was determined that considerable and foundational changes to both structure, purpose, and course offerings of this embedded certificate would have to be made in order to bring it into compliance. In order to bring the RCiK within the between 12 and 18 required units (currently over by 3-6 units) and no more than 3 units overlap with required courses (currently over by 6-9 units), a complete rethink and rebuild of this embedded certificate was determined to be necessary.

This embedded certificate was built with the intention to be completed by BScKin and BKin students primarily and of the objectives of the day, when a comprehensive framework of compliance did not exist. To meet the requirements of the new Undergraduate Embedded Certificate Framework, the RCiK completion requirements now require to be completely reimagined with a different purpose. If the RCiK is to still remain purposeful for BScKin and BKin programs students, but also more accessible to students outside of the BScKin and BKin programs, and include an interdisciplinary focus, contribute to Indigenization, and be considerate of administrative demands in a sustainable way, the Faculty of KSR requires a substantial amount of time to complete a more thorough and thoughtful program design and recreation of the RCiK.

The FoKSR is also currently undergoing a curriculum review within all of its undergraduate programming. The required work to align the RCiK with the new Undergraduate Embedded Certificate Framework will parallel the curriculum review process which is expected to take a minimum of two years to complete. The FoKSR does not have the capacity to complete a more thorough and thoughtful program redesign and recreation of the RCiK outside of the curriculum review

process by the Fall 2025 deadline for compliance. As a result, the suspension of the RCiK is intended to allow for the time for this work to occur while simultaneously making clear, by its suspension, that it does not align nor comply with current Faculty or Institutional strategic directions. The suspension of the RCiK will also allow administrative focus onto the rebuild and recreation of the RCiK in step with the curriculum review process while also managing to maintain the day to day administration of programming.

The current small demand of this certificate also does not indicate a substantial impact on students (average # completion of approx 7 students per year over the last 8 years). Research focused course offerings (both required and elective) will continue to be offered to students, including the substantive research focused coursework that has been built into the new In Field Learning Pathway that will begin replacing practicums in Fall 2024.

## Calendar Copy

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=54578&returnto=12345](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=54578&returnto=12345)

**Current Copy:** ~~Removed language~~

**Proposed Copy:** New language

### ~~Research Certificate in Kinesiology (Effective September 2024)~~

~~The Research Certificate in Kinesiology is open to undergraduate students in the Faculty of Kinesiology, Sport, and Recreation's BSc Kin or BKin degree programs. Consent of the Faculty is required. Normally, a student will be able to fulfill the requirements for this certificate as part of a BSc Kin or BKin program although some students may need to complete more than the minimum number of credits required in order to qualify for both the degree and the certificate.~~

~~Students may pursue the Research Certificate in Kinesiology by fulfilling the existing requirements for their program and by completing a minimum of 21 to a maximum of 24 units as follows:~~

- ~~1. 9 to a maximum of 12 units from a list of 300- and 400-level approved option courses that include instruction and experience in research methods, data collection, data handling and analysis, interpretation, and/or practical skills. A maximum of 6 units may be selected from KIN 398, KIN 399, KIN 498, or KRLS 495.~~
- ~~2. Minimum of 9 to a maximum of 12 units of In Field Learning that is focused on research completed under the supervision of a University of Alberta academic faculty member or an approved research affiliate.~~

### Research Certificate in Kinesiology (Effective September 2024)

Effective July 1, 2024 there will be no further admissions into the Research Certificate in Kinesiology. Students who entered the Research Certificate prior to June 30, 2024 will have until June 30, 2029 to complete all program requirements. Students can refer to the Calendar in effect at the time of their admission or readmission for the regulations governing the certificate requirements. The last degree with the Research Certificate in Kinesiology will be awarded at Fall Convocation 2029.

<p>3. <del>Presentation at a conference either on or off campus.</del></p> <p><del>Students wishing to receive the Research Certificate in Kinesiology must apply through Undergraduate Student Services in the Faculty of Kinesiology, Sport, and Recreation by the application deadline for convocation (see Academic Schedule).</del></p>	
--	--

**Reviewed/Approved by:**

<p>REQUIRED:</p> <p>Program Support Team (Undergraduate &amp; Non-Credit): December 14th, 2023 early consultation; for omnibus consent agenda January 25th, 2024 (pending)</p> <p>KSR Undergraduate Programs Committee: November 8th, 2023 early consultation; January 10th, 2024 approval (pending)</p> <p>KSR Faculty Executive: November 22nd, 2023 early consultation; January 24th, 2024 approval (pending)</p> <p>KSR Faculty Council: November 29th, 2023 early consultation; January 31, 2024 approval (pending)</p>
<p>OPTIONAL:</p> <p>Dr. Janice Causgrove Dunn, Vice Provost (Programs) &amp; Implementation of the Undergraduate Embedded Certificate Framework Team (November 10th, 2023)</p> <p>Darcie Tessari, KSR Students Services Office Lead (November 16th, 2023)</p> <p>Nicole Lazorek, KSR Manager Academic Programs (November 16th, 2023)</p> <p>Dr. Kyra Pyke, Dean Faculty of KSR (November 16th, 2023)</p>

Faculty (& Department or Academic Unit):	Department of Dentistry
Contact Person:	Deniz Ozgan (ozgan@ualberta.ca)
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> <b>Undergraduate</b>
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Department of Dentistry is seeking to expand post graduate dental education opportunities. Currently we offer PGDE 912 which is a 12 month general residency program, but we would like to provide additional shorter residency programs (i.e. 1 - 12 months). The Department of Medicine offers a series of PGME courses (PGME 901-912) but has requirements specific to the MD program. Therefore, Dentistry would like to develop similar courses specific for dental graduates.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<b>Subject &amp; Number</b>  <b>Title</b>  <b>Course Career</b> <b>Units</b> <b>Approved Hours</b> <b>Fee index</b> <b>Faculty</b> <b>Department</b> <b>Typically Offered</b>  <b>Description</b>	<b>Subject &amp; Number: PGDE 901</b>  <b>Title: One-Month Dentistry Fellowship</b>  <b>Course Career: Undergraduate</b> <b>Units: 0</b> <b>Approved Hours: 4 WEEKS</b> <b>Fee index: 1</b> <b>Faculty: Medicine and Dentistry</b> <b>Department: Dentistry</b> <b>Typically Offered: variable</b>  <b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.

	<p><b>Subject &amp; Number:</b> PGDE 902</p> <p><b>Title:</b> Two-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 0  <b>Approved Hours:</b> 8 WEEKS  <b>Fee index:</b> 2  <b>Faculty:</b> Medicine and Dentistry  <b>Department:</b> Dentistry  <b>Typically Offered:</b> variable</p> <p><b>Description</b>  This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>
	<p><b>Subject &amp; Number:</b> PGDE 903</p> <p><b>Title:</b> Three-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 0  <b>Approved Hours:</b> 12 WEEKS  <b>Fee index:</b> 3  <b>Faculty:</b> Medicine and Dentistry  <b>Department:</b> Dentistry  <b>Typically Offered:</b> variable</p> <p><b>Description</b>  This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>



	<p><b>Subject &amp; Number:</b> PGDE 904</p> <p><b>Title:</b> Four-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 0 <b>Approved Hours:</b> 16 WEEKS <b>Fee index:</b> 4 <b>Faculty:</b> Medicine and Dentistry <b>Department:</b> Dentistry <b>Typically Offered:</b> variable</p> <p><b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>
	<p><b>Subject &amp; Number:</b> PGDE 905</p> <p><b>Title:</b> Five-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 0 <b>Approved Hours:</b> 20 WEEKS <b>Fee index:</b> 5 <b>Faculty:</b> Medicine and Dentistry <b>Department:</b> Dentistry <b>Typically Offered:</b> variable</p> <p><b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>

	<p><b>Subject &amp; Number:</b> PGDE 906</p> <p><b>Title:</b> Six-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 0 <b>Approved Hours:</b> 24 WEEKS <b>Fee index:</b> 6 <b>Faculty:</b> Medicine and Dentistry <b>Department:</b> Dentistry <b>Typically Offered:</b> variable</p> <p><b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>
	<p><b>Subject &amp; Number:</b> PGDE 907</p> <p><b>Title:</b> Seven-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 0 <b>Approved Hours:</b> 28 WEEKS <b>Fee index:</b> 7 <b>Faculty:</b> Medicine and Dentistry <b>Department:</b> Dentistry <b>Typically Offered:</b> variable</p> <p><b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>

	<p><b>Subject &amp; Number:</b> PGDE 908</p> <p><b>Title:</b> Eight-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 0 <b>Approved Hours:</b> 32 WEEKS <b>Fee index:</b> 8 <b>Faculty:</b> Medicine and Dentistry <b>Department:</b> Dentistry <b>Typically Offered:</b> variable</p> <p><b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>
	<p><b>Subject &amp; Number:</b> PGDE 909</p> <p><b>Title:</b> Nine-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 0 <b>Approved Hours:</b> 36 WEEKS <b>Fee index:</b> 9 <b>Faculty:</b> Medicine and Dentistry <b>Department:</b> Dentistry <b>Typically Offered:</b> variable</p> <p><b>Description</b> This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>

	<p><b>Subject &amp; Number:</b> PGDE 910</p> <p><b>Title:</b> Ten-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 0  <b>Approved Hours:</b> 40 WEEKS  <b>Fee index:</b> 10  <b>Faculty:</b> Medicine and Dentistry  <b>Department:</b> Dentistry  <b>Typically Offered:</b> variable</p> <p><b>Description</b>  This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>
	<p><b>Subject &amp; Number:</b> PGDE 911</p> <p><b>Title:</b> Eleven-Month Dentistry Fellowship</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 0  <b>Approved Hours:</b> 44 WEEKS  <b>Fee index:</b> 11  <b>Faculty:</b> Medicine and Dentistry  <b>Department:</b> Dentistry  <b>Typically Offered:</b> variable</p> <p><b>Description</b>  This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training as a Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p>

<p><b>Subject &amp; Number:</b> PGDE 912</p> <p><b>Title:</b> Postgraduate Dental Education</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 0  <b>Approved Hours:</b> 52 WEEKS  <b>Fee index:</b> 12  <b>Faculty:</b> <b>Medicine and Dentistry</b>  <b>Department:</b> <b>Medicine and Dentistry</b>  <b>Typically Offered:</b> <b>two term</b></p> <p><b>Description</b>  This general residency program is one calendar year in length, July 1 through June 30. Six DDS graduates are accepted each year, those accepted primarily being DDS graduates in the year in which they begin the residency. Under the direction of dental specialists and general practitioners, residents will provide care to patients who cannot be seen by undergraduate dental students because of the complexity and/or scope of the required treatment. Through seminar sessions and clinical teaching, the areas of endodontics, periodontics, prosthodontics, oral surgery, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry are taught. Residents will also be involved in the University of Alberta Hospital Dental Service, providing clinical treatment to patients during scheduled daytime clinics, evening and weekend emergency walk-in clinics and on-call. An important additional component of this residency program is off site rotations to underserved areas of this province.</p>	<p><b>Subject &amp; Number:</b> PGDE 912</p> <p><b>Title:</b> Postgraduate Dental Education</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 0  <b>Approved Hours:</b> 52 WEEKS  <b>Fee index:</b> 12  <b>Faculty:</b> <b>Medicine and Dentistry</b>  <b>Department:</b> <b>Dentistry</b>  <b>Typically Offered:</b> <b>variable</b></p> <p><b>Description</b>  This represents a contract period of registration with variable start and end dates for DDS graduates who are completing training either as a Resident or Fellow. The focus of training is based upon the area of specialization. Areas of training can include endodontics, periodontics, orthodontics, oral and maxillofacial surgery, TMD, prosthodontics, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry.</p> <p>Under the direction of dental specialists and general practitioners, Residents will provide care to patients who cannot be seen by undergraduate dental students because of the complexity and/or scope of the required treatment. Through seminar sessions and clinical teaching, the areas of endodontics, periodontics, prosthodontics, oral surgery, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry are taught. Residents will also be involved in the University of Alberta Hospital Dental Service, providing clinical treatment to patients during scheduled daytime clinics, evening and weekend emergency walk-in clinics and on-call. An important additional component of this residency program is off site rotations to underserved areas of this province.</p>
---	--

**Reviewed/Approved by:**

<p>REQUIRED:  FoMD Faculty Learning Committee (Faculty Council-delegated Approver) – October 20, 2023</p>
<p>OPTIONAL: Approved by Dentistry Department Council on September 21, 2023</p>

Faculty (& Department or Academic Unit):	Faculty of Medicine & Dentistry – Department of Biochemistry
Contact Person:	Jonathan Parrish <a href="mailto:jparrish@ualberta.ca">jparrish@ualberta.ca</a>
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

**BIOCH 409** – BIOCH 409 is an individual study course and allows students to have an opportunity to explore a particular area of research that is not covered in other courses. The list of prerequisite courses has been updated to reflect current offerings. It is also resource intensive with respect to Faculty (with a 1:1 student:faculty ratio) and restricting this to students in the final year of an honors program is a reasonable stipulation to require.

**BIOCH 415** – The language is being updated to address course enrollment issues and to ensure that Biochemistry students will be able to take the class as part of their degree requirements.

**BIOCH 498** – BIOCH 498 description is being updated to indicate that the expectation that students taking this course will be senior biochemistry students or will have a substantial background in biochemistry theory or techniques.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>BIOCH 409</b></p> <p><b>Biochemistry Tutorial</b></p> <p><b>Course Career: Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 0-0-8</b>  <b>Fee index 6</b>  <b>Faculty Medicine and Dentistry</b>  <b>Department Biochemistry</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>            Research and/or reading course. This course allows a student to study an area of biochemistry in much greater detail than is usual in most courses. The format is usually a reading/tutorial in which the student carries out directed reading and meets with the tutor at regular intervals for discussion and further guidance. Term papers or presentations may be used for evaluation purposes. A mature attitude towards learning is essential, as the course often requires independent study and research. Students who have a particular interest in any specific area of biochemistry are encouraged to meet with the</p>	<p><b>BIOCH 409</b></p> <p><b>Biochemistry Tutorial</b></p> <p><b>Course Career: Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 0-0-8</b>  <b>Fee index 6</b>  <b>Faculty Medicine and Dentistry</b>  <b>Department Biochemistry</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>            Research and/or reading course. This course allows a student to study an area of biochemistry in much greater detail than is usual in most courses. The format is usually a reading/tutorial in which the student carries out directed reading and meets with the tutor at regular intervals for discussion and further guidance. Term papers or presentations may be used for evaluation purposes. A mature attitude towards learning is essential, as the course often requires independent study and research. Students who have a particular interest in any specific area of biochemistry are encouraged to meet with the</p>

<p>faculty members to explore the possibilities of arranging a mutually satisfactory topic. Prerequisites: At least <b>one</b> of BIOCH 410, 420, 430, 441, 455, or 465. Available only to students in the Biochemistry Specialization or Honors programs. <b>Credit for this course may be obtained more than once.</b></p>	<p>faculty members to explore the possibilities of arranging a mutually satisfactory topic. Prerequisites: At least <b>two</b> of BIOCH 410, <b>415</b>, 420, <b>425</b>, 430, 441, 455, or 465 <b>and consent of the Department.</b> Available only to students in the Biochemistry Specialization or Honors programs <b>in the final year of their program.</b></p>
<p><b>BIOCH 415</b></p> <p><b>Metabolic Modifications in Health and Disease</b></p> <p><b>Course Career: Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 3-0-0</b>  <b>Fee index 6</b>  <b>Faculty Medicine and Dentistry</b>  <b>Department Biochemistry</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>  This course introduces students to adaptive and pathological changes in human metabolic pathways. The course will cover various situations which alter the 'normal' function of the metabolic pathways, such as lifestyle modifications (e.g. exercise, diet), starvation, cancer, diabetes, aging and neurodegenerative disorders, immune diseases, and mitochondrial diseases. Prerequisite(s): BIOCH 310 with a minimum grade of B-; <b>or consent of the Department.</b></p>	<p><b>BIOCH 415</b></p> <p><b>Metabolic Modifications in Health and Disease</b></p> <p><b>Course Career: Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 3-0-0</b>  <b>Fee index 6</b>  <b>Faculty Medicine and Dentistry</b>  <b>Department Biochemistry</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>  This course introduces students to adaptive and pathological changes in human metabolic pathways. The course will cover various situations which alter the 'normal' function of the metabolic pathways, such as lifestyle modifications (e.g. exercise, diet), starvation, cancer, diabetes, aging and neurodegenerative disorders, immune diseases, and mitochondrial diseases. Prerequisite(s): BIOCH 310 with a minimum grade of B-; <b>This course is restricted to students in an Honors or Major Program in Biochemistry, students in other programs may be admitted subject to availability and with the consent of the Department.</b></p>
<p><b>Current</b></p> <p><del>Removed language</del></p> <p><b>BIOCH 498</b></p> <p><b>Directed Research Project</b></p> <p><b>Course Career: Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 0-0-8</b>  <b>Fee index 6</b>  <b>Faculty Medicine and Dentistry</b>  <b>Department Biochemistry</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>  Supervised research within a laboratory in the Department of Biochemistry, to be carried out over one</p>	<p><b>Proposed</b></p> <p><b>New language</b></p> <p><b>BIOCH 498</b></p> <p><b>Directed Research Project</b></p> <p><b>Course Career: Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 0-0-8</b>  <b>Fee index 6</b>  <b>Faculty Medicine and Dentistry</b>  <b>Department Biochemistry</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>  Supervised research within a laboratory in the Department of Biochemistry, to be carried out over one</p>

<p>term (Fall or Winter). The results of the research project will be presented in a short seminar. This course is intended for students in Honors or Specialization in Biochemistry. Students in other programs may be admitted subject to availability and with the consent of the Department. This course is not a substitute for required courses in Biochemistry. Can be taken for credit prior to BIOCH 499.</p>	<p>term (Fall or Winter). The results of the research project will be presented in a short seminar. This course is intended for senior students in Honors or Specialization in Biochemistry. Students in other programs may be admitted subject to availability and background. This course is not a substitute for required courses in Biochemistry. Requires consent of the Department.</p>
--	---

**Reviewed/Approved by:**

<p>REQUIRED: FoMD Faculty Learning Committee (Faculty Council-delegated Approver) – Oct 27, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p>



Faculty (& Department or Academic Unit):	<b>FoMD</b> – <i>Departments of Biochemistry, Cell Biology, Medical Microbiology and Immunology, Pharmacology and Physiology and the Neuroscience and Mental Health Institute</i>
Contact Person:	Jonathan Parrish, Department of Biochemistry <a href="mailto:jparrish@ualberta.ca">jparrish@ualberta.ca</a>
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

These changes are designed to recategorize and update some of the course offerings that contribute to the specific requirements of the Certificate in Biomedical Research.

### Calendar Copy

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=48086](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=48086)

Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<p><b>Certificate in Biomedical Research</b></p> <p>The Certificate in Biomedical Research is offered by the Departments of Biochemistry, Cell Biology, Pharmacology, and Physiology. Students who pursue the certificate will be engaged in world-class biomedical research programs and will acquire a broad range of research skills through substantive laboratory course and independent research project experiences.</p> <p>Students wishing to pursue the Certificate in Biomedical Research must discuss their program of study both with their own program advisor and, where different, a program advisor in one of the Departments of Biochemistry, Cell Biology, Pharmacology <b>or</b> Physiology. Completion of the certificate must be recorded with the Biomedical Sciences Undergraduate Education Committee at least one week prior to the application</p>	<p><b>Certificate in Biomedical Research</b></p> <p>The Certificate in Biomedical Research is offered by the Departments of Biochemistry, Cell Biology, <b>Medical Microbiology and Immunology</b>, Pharmacology, and Physiology <b>and the Neuroscience and Mental Health Institute</b>. Students who pursue the certificate will be engaged in world-class biomedical research programs and will acquire a broad range of research skills through substantive laboratory course and independent research project experiences.</p> <p>Students wishing to pursue the Certificate in Biomedical Research must discuss their program of study both with their own program advisor and, where different, a program advisor in one of the Departments of Biochemistry, Cell Biology, <b>Medical Microbiology and Immunology</b>, Pharmacology, Physiology, <b>or the</b></p>

deadline for convocation (see Academic Schedule). Students wishing to receive the Certificate in Biomedical Research must also apply through Undergraduate Student Services in their home Faculty by the application deadline for convocation (see Academic Schedule).

**Students may pursue the Certificate in Biomedical Research by fulfilling the existing requirements for their program and by completing at least 18 units in courses as follows:**

- Presentation at a research day or conference either on or off campus (see Note 1).

**A minimum of 3 units in senior laboratory skills courses selected from: (See Note 2).**

- BIOCH 398 - Research Project (See Note 3)
- BIOCH 401
- BIOL 391 - Techniques in Molecular Biology and Bioinformatics
- BIOL 398 - Research Project
- CELL 398 - Research Project (See Note 3)
- IMIN 372 - Research Techniques in Immunology
- MLSCI 481 - Techniques in Molecular Biology
- MMI 352 - Microbial Pathogenesis
- MMI 391 - Current Methods in Molecular Biology
- MMI 398 - Research Project (See Note 3)
- MMI 490 - Advanced Techniques in Microbiology and Immunology
- PHYSL 310 - Experimental Techniques in Physiology
- ~~PMCOL 301 - Introduction to Research in Pharmacology~~
- PMCOL 337 - Experimental Procedures in Pharmacology

**3-9 units in courses which explore current biomedical research literature selected from: (See Note 2).**

- BIOCH 409 - Biochemistry Tutorial
- BIOCH 425 - Proteomics
- BIOCH 465 - Methods in Molecular Biophysics
- BIOCH 495 - Special Topics in Biochemistry
- CELL 402 - The Birth and Death of a Cell
- CELL 405 - Cell Biology of Disease
- CELL 425 - Systems Biology
- CELL 445 - Current Topics in Cell Biology
- IMIN 401 - Comparative Immunology
- IMIN 405 - Innate Immunity
- IMIN 452 - Advanced Immunology
- ~~MMI 405 - Advanced Microbial Pathogenicity~~

**Neuroscience and Mental Health Institute.** Completion of the certificate must be recorded with the Biomedical Sciences Undergraduate Education Committee at least one week prior to the application deadline for convocation (see Academic Schedule). Students wishing to receive the Certificate in Biomedical Research must also apply through Undergraduate Student Services in their home Faculty by the application deadline for convocation (see Academic Schedule).

**Students may pursue the Certificate in Biomedical Research by fulfilling the existing requirements for their program and by completing at least 18 units in courses as follows:**

- Presentation at a research day or conference either on or off campus (see Note 1).

**A minimum of 3 units in senior laboratory skills courses selected from: (See Note 2).**

- BIOCH 398 - Research Project (See Note 3)
- BIOCH 401
- BIOL 391 - Techniques in Molecular Biology and Bioinformatics
- BIOL 398 - Research Project
- CELL 398 - Research Project (See Note 3)
- IMIN 372 - Research Techniques in Immunology
- MLSCI 481 - Techniques in Molecular Biology
- MMI 352 - Microbial Pathogenesis
- MMI 391 - Current Methods in Molecular Biology
- MMI 398 - Research Project (See Note 3)
- MMI 490 - Advanced Techniques in Microbiology and Immunology
- PHYSL 310 - Experimental Techniques in Physiology
- PMCOL 337 - Experimental Procedures in Pharmacology

**3-9 units in courses which explore current biomedical research literature selected from: (See Note 2).**

- BIOCH 409 - Biochemistry Tutorial
- **BIOCH 410 - Signal Transduction**
- BIOCH 425 - Proteomics
- BIOCH 465 - Methods in Molecular Biophysics
- **BIOCH 481 - Design and Construction of Synthetic Biological Systems I**
- BIOCH 495 - Special Topics in Biochemistry
- CELL 402 - The Birth and Death of a Cell
- CELL 405 - Cell Biology of Disease
- CELL 425 - Systems Biology
- CELL 445 - Current Topics in Cell Biology
- IMIN 401 - Comparative Immunology

- MMI 415 - Advanced Virology
- MMI 436 - Inflammation
- MLSCI 430 - Advanced Hematology
- NEURO 450 - Readings on Selected Topics in Neuroscience
- ONCOL 425 - Advanced Topics in Cancer Research
- PMCOL 415 - Cardiovascular Pharmacology
- PMCOL 416 - Current Topics in Endocrine Pharmacology
- PMCOL 425 - Problem Solving in Pharmacology and Therapeutics
- PHYSL 444 - Current Topics in Neuroscience
- PHYSL 466 - Undergraduate Tutorial

**A minimum of 9 units in directed research project(s) selected from:**  
(See Notes 2 & 4)

- BIOCH 398 - Research Project (See Note 3)
- ~~BIOCH 481 - Design and Construction of Synthetic Biological Systems I~~
- BIOCH 497 - International Directed Research Project
- BIOCH 498 - Directed Research Project
- BIOCH 499 - Directed Research Project
- BIOL 498 - Research Project
- BIOL 499 - Research Project
- CELL 398 - Research Project (See Note 3)
- CELL 498 - Research Project
- CELL 499 - Research Project
- MLSCI 409 - Research Project
- MLSCI 491 - Research Project
- MMI 398 - Research Project (See Note 3)
- ~~MMI 405 - Advanced Microbial Pathogenicity~~
- MMI 498 - Research Project in Infection and Immunity
- MMI 499 - Independent Research in Infection and Immunity
- NEURO 451 - Honors Research Project in Neuroscience
- NEURO 452 - Honors Research Project in Neuroscience
- NEURO 498 - Honors Research Project in Neuroscience I
- NEURO 499 - Honors Research Project in Neuroscience II
- PHYSL 461 - Undergraduate Research Project
- PHYSL 467 - Undergraduate Research Project
- PHYSL 468 - Undergraduate Research Thesis I
- PHYSL 469 - Undergraduate Research Thesis II
- PMCOL 302 - Introduction to Research in Pharmacology

- IMIN 405 - Innate Immunity
- IMIN 452 - Advanced Immunology
- MMI 415 - Advanced Virology
- MMI 436 - Inflammation
- MLSCI 430 - Advanced Hematology
- NEURO 450 - Readings on Selected Topics in Neuroscience
- ONCOL 425 - Advanced Topics in Cancer Research
- **PMCOL 403 - Advanced Topics in Pharmacology**
- **PMCOL 408 - Clinical Pharmacology**
- PMCOL 415 - Cardiovascular Pharmacology
- PMCOL 416 - Current Topics in Endocrine Pharmacology
- PMCOL 425 - Problem Solving in Pharmacology and Therapeutics
- PHYSL 444 - Current Topics in Neuroscience
- PHYSL 466 - Undergraduate Tutorial

**A minimum of 9 units in directed research project(s) focusing on biomedical research selected from:**  
(See Notes 2 & 4)

- BIOCH 398 - Research Project (See Note 3)
- **BIOCH 482 - Design and Construction of Synthetic Biological Systems II**
- BIOCH 497 - International Directed Research Project
- BIOCH 498 - Directed Research Project
- BIOCH 499 - Directed Research Project
- BIOL 498 - Research Project
- BIOL 499 - Research Project
- CELL 398 - Research Project (See Note 3)
- CELL 498 - Research Project
- CELL 499 - Research Project
- MLSCI 409 - Research Project
- MLSCI 491 - Research Project
- MMI 398 - Research Project (See Note 3)
- MMI 498 - Research Project in Infection and Immunity
- MMI 499 - Independent Research in Infection and Immunity
- NEURO 451 - Honors Research Project in Neuroscience
- NEURO 452 - Honors Research Project in Neuroscience
- NEURO 498 - Honors Research Project in Neuroscience I
- NEURO 499 - Honors Research Project in Neuroscience II
- PHYSL 461 - Undergraduate Research Project
- PHYSL 467 - Undergraduate Research Project
- PHYSL 468 - Undergraduate Research Thesis I
- PHYSL 469 - Undergraduate Research Thesis II
- **PMCOL 301 - Introduction to Research in Pharmacology**
- PMCOL 302 - Introduction to Research in

<ul style="list-style-type: none"> <li>● PMCOL 401 - Pharmacology Tutorial</li> <li>● PMCOL 402 - Pharmacology Tutorial</li> <li>● PMCOL 498 - Pharmacology Research Program</li> </ul> <p><b>Notes:</b> Students should plan the completion of the research certificate in consultation with the program advisor of one of the departments listed to ensure appropriate courses are taken.</p> <ol style="list-style-type: none"> <li>1. The form of presentation includes both oral and poster.</li> <li>2. The courses and research projects listed are examples and the lists are not exclusive. Courses and research projects other than those listed may be approved as equivalent. For more information, please consult your program advisor. Final approval is by the Biomedical Sciences Undergraduate Education Committee.</li> <li>3. BIOCH 398, CELL 398, and MMI 398 may be used for credit towards 3 units in senior laboratory skills courses or 9 units in directed research project(s), but NOT both.</li> <li>4. If only 6 units in directed research project(s) is credited, other research completed during the student's undergraduate program may be considered as equivalent to 3 units in directed research courses. This research must be verified by the project supervisor, and must have been presented or disseminated in some form, normally poster, oral, or written. The Biomedical Sciences Undergraduate Education Committee will determine equivalence.</li> </ol>	<p align="center">Pharmacology</p> <ul style="list-style-type: none"> <li>● PMCOL 401 - Pharmacology Tutorial</li> <li>● PMCOL 402 - Pharmacology Tutorial</li> <li>● PMCOL 498 - Pharmacology Research Program</li> <li>● PMCOL 497 - Honors Research Project in Pharmacology I</li> <li>● PMCOL 499 - Honors Research Project in Pharmacology II</li> </ul> <p><b>Notes:</b> Students should plan the completion of the research certificate in consultation with the program advisor of one of the departments listed to ensure appropriate courses are taken.</p> <ol style="list-style-type: none"> <li>1. The form of presentation includes both oral and poster.</li> <li>2. The courses and research projects listed are examples and the lists are not exclusive. Courses and research projects other than those listed may be approved as equivalent. For more information, please consult your program advisor. Final approval is by the Biomedical Sciences Undergraduate Education Committee.</li> <li>3. BIOCH 398, CELL 398, MMI 398, NEURO 451, and NEURO 452 may be used for credit towards 3 units in senior laboratory skills courses or 9 units in directed research project(s), but NOT both.</li> <li>4. If only 6 units in directed research project(s) is credited, other research completed during the student's undergraduate program may be considered as equivalent to 3 units in directed research courses. This research must be verified by the project supervisor, and must have been presented or disseminated in some form, normally poster, oral, or written. The Biomedical Sciences Undergraduate Education Committee will determine equivalence.</li> </ol>
---	---

**Reviewed/Approved by:**

<p>REQUIRED: FoMD Faculty Learning Committee (Faculty Council-delegated Approver) – Oct 27, 2023</p>
<p>The Biomedical Sciences Undergraduate Education Committee (Approved September 21, 2023)                  Department of Biochemistry (Approved October 17, 2023)                  Department of Cell Biology (Approved September 27, 2023)                  Department of Medical Microbiology and Immunology (Approved September 27, 2023)                  Department of Pharmacology (Approved September 27, 2023)                  Department of Physiology (October 19, 2023)                  Neuroscience and Mental Health Institute (Approved September 26, 2023)</p>

## Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	<b>FoMD – Department of Pharmacology</b>
Contact Person:	Jennifer Beattie <a href="mailto:pmcol.gradadmin@ualberta.ca">pmcol.gradadmin@ualberta.ca</a> Elena Posse de Chaves <a href="mailto:elena.chaves@ualberta.ca">elena.chaves@ualberta.ca</a>
Level of change (choose one only) [?]	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

The FoMD has established core competencies for all the graduate programs. This new course will provide students the opportunity to fulfil part of the requirements for training in communication.

### Course Template

Current	Proposed
NEW COURSE	<p><b>Subject &amp; Number</b> PMCOL 601</p> <p><b>Title</b> Pharmacology Graduate Seminars</p> <p><b>Course Career</b> Graduate</p> <p><b>Units</b> 0</p> <p><b>Approved Hours</b> 0-1S-0</p> <p><b>Fee index</b> 2</p> <p><b>Faculty of Medicine and Dentistry</b> <b>Department of Pharmacology</b> <b>Typically Offered:</b> Two-term</p> <p><b>Description</b> All graduate students are required to participate in this credit/no-credit graduate course every year by attending the weekly sessions and giving one presentation per year. The course consists of presentations by graduate students, University of Alberta faculty members and external speakers, and workshops and information sessions relevant to graduate studies. Note: Open only to Graduate students in Pharmacology.</p>

**Reviewed/Approved by:**

REQUIRED:

FoMD Faculty Learning Committee (Faculty Council-delegated Approver) – October 20, 2023

Other consultation groups, departments, or internal faculty approving bodies and approval dates.

Approved by FoMD Graduate Programs Committee – October 6, 2023

Approved by Department of Pharmacology Committee – September 27- 2023

Faculty (& Department or Academic Unit):	Nursing
Contact Person:	Kara Schick-Makaroff (Associate Dean, Graduate Studies)
Level of change:	<input type="checkbox"/> Undergraduate
	<input checked="" type="checkbox"/> Graduate
For which term will this change take effect?	Fall, 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

### NURS 593 - Applied Inquiry I (593) and NURS 594 Applied Inquiry II

NURS 593 & 594 were originally conceptualized in the MN curriculum redesign as co or pre-requisites of Community of Inquiry courses (NURS 589, 590, 591). In curriculum enactment and development, they have not been designed or taught in this manner.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number:</b> NURS 593</p> <p><b>Title:</b> Applied Inquiry I - Framing the Inquiry Focus</p> <p><b>Course Career:</b> Graduate  <b>Units:</b> 3  <b>Approved Hours:</b> 0-3S-0  <b>Fee index:</b> 6  <b>Faculty:</b> Nursing  <b>Department:</b> Nursing  <b>Typically Offered:</b> either term</p> <p><b>Description</b>            Engage in structured inquiry in relation to issues from health care and/or nursing practice. Emphasis is placed on exploring key elements of such issues, identifying knowledge gaps, and shaping current understanding in pursuit of questions and methods appropriate for systematic research and inquiry. <b>Co or Prerequisite:</b> <del>NURS 589, NURS 595.</del></p>	<p><b>Subject &amp; Number:</b> NURS 593</p> <p><b>Title:</b> Applied Inquiry I - Framing the Inquiry Focus</p> <p><b>Course Career:</b> Graduate  <b>Units:</b> 3  <b>Approved Hours:</b> 0-3S-0  <b>Fee index:</b> 6  <b>Faculty:</b> Nursing  <b>Department:</b> Nursing  <b>Typically Offered:</b> either term</p> <p><b>Description</b>            Engage in structured inquiry in relation to issues from health care and/or nursing practice. Emphasis is placed on exploring key elements of such issues, identifying knowledge gaps, and shaping current understanding in pursuit of questions and methods appropriate for systematic research and inquiry.</p>

<p><b>Subject &amp; Number:</b> NURS 594</p> <p><b>Title:</b> Applied Inquiry II - Grand Challenge Questions</p> <p><b>Course Career:</b> Graduate  <b>Units:</b> 3  <b>Approved Hours:</b> 0-3S-0  <b>Fee index:</b> 6  <b>Faculty:</b> Nursing  <b>Department:</b> Nursing  <b>Typically Offered:</b> either term</p> <p><b>Description</b>  Participate in guided inquiry, applying research skills and inquiry approaches, designing solutions, and contributing to a knowledge-building community. Student teams investigate a current nursing issue from a range of perspectives informed by advanced leadership, education, clinical and research-based knowledge, theory and practice. <del>Prerequisite: NURS 593.</del></p>	<p><b>Subject &amp; Number:</b> NURS 594</p> <p><b>Title:</b> Applied Inquiry II - Grand Challenge Questions</p> <p><b>Course Career:</b> Graduate  <b>Units:</b> 3  <b>Approved Hours:</b> 0-3S-0  <b>Fee index:</b> 6  <b>Faculty:</b> Nursing  <b>Department:</b> Nursing  <b>Typically Offered:</b> either term</p> <p><b>Description</b>  Participate in guided inquiry, applying research skills and inquiry approaches, designing solutions, and contributing to a knowledge-building community. Student teams investigate a current nursing issue from a range of perspectives informed by advanced leadership, education, clinical and research-based knowledge, theory and practice.</p>
---	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date.</p> <ul style="list-style-type: none"> <li>● GPST Graduate Program Support Team - <b>Meets Oct 23, 2023</b></li> <li>● Faculty of Nursing Council - <b>Meets Oct 24, 2023</b></li> <li>● Policy Review Committee - <b>Not scheduled, last year was November</b></li> <li>● FGSR Council - <b>Meets Oct 11, Nov 8, Dec 6</b></li> <li>● Programs Committee - <b>Jan 2024</b></li> </ul>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <ul style="list-style-type: none"> <li>● Faculty of Nursing Graduate Education Committee - <b>Approved - Sep 18, 2023</b></li> <li>● Faculty of Nursing Caucus - <b>Approved Sep 25, 2023</b></li> </ul>



Faculty (& Department or Academic Unit):	Nursing
Contact Person:	Kara Schick-Makaroff (Associate Dean, Graduate Studies)
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Program</li> </ul>
For which term is this intended to take effect?	Fall, 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Completion of an interview with the prospective supervisor “and / or Graduate Admission Committee”:  
Adding the option for an interview during the admissions/applications process will allow the Nursing Graduate Admissions Committee to learn more about the doctoral applicants and determine if they are a good fit for the PhD Nursing program.

NURS 594:

Master of Nursing students with a ‘Research’ focus do not have an elective in their program. We propose that the required NURS 594 course may be replaced with a 500 or 600 level research methods or equivalent course to support their program and thesis..

Academic Standing Requirement:

At this time, students who apply to our masters programs require a 3.0 GPA, and students who apply to our phd program require a 3.5. Once accepted into nursing programs, we have used the FGSR-stated minimum requirement of a cumulative grade point average (GPA) of 2.7. We are proposing to increase our minimum GPA from 2.7 to 3.0. This change would apply to all nursing masters and doctoral graduate students. For students who are struggling, a drop in GPA may be an early indication of challenges or struggles. Raising the GPA for academic standing will allow us to put strategies in place to proactively support students, triggering early interventions for them to be successful in their programs.

### Calendar Copy

URL in current Calendar (or “New page”)

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47761&returnto=12424](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47761&returnto=12424)

**Current Copy:** ~~Removed language~~

**Proposed Copy:** New language

<p><b>For the PhD in Nursing</b>, the Faculty's minimum admission requirements are:</p> <ul style="list-style-type: none"> <li>● a Master's degree in Nursing with an admission GPA of at least 3.5 on the 4-point scale from the University of Alberta, or an equivalent qualification and standing from a recognized institution. The admission GPA will be calculated on the last 60 units of graded coursework completed, or on the equivalent of the last two years of full-time graded coursework. Students who do not hold the equivalent to this degree may be admitted and required to undertake additional course work in nursing theory, practice and/or research.</li> <li>● A GPA of 3.5 in the last two years of study.</li> <li>● Graduate qualitative and quantitative (with some statistics) research courses, or one graduate course in statistics and one in research methods (or equivalent), with a final grade of B or higher.</li> <li>● Completion of an interview with the prospective supervisor.</li> <li>● Written agreement with a supervisor.</li> </ul>	<p><b>For the PhD in Nursing</b>, the Faculty's minimum admission requirements are:</p> <ul style="list-style-type: none"> <li>● a Master's degree in Nursing with an admission GPA of at least 3.5 on the 4-point scale from the University of Alberta, or an equivalent qualification and standing from a recognized institution. The admission GPA will be calculated on the last 60 units of graded coursework completed, or on the equivalent of the last two years of full-time graded coursework. Students who do not hold the equivalent to this degree may be admitted and required to undertake additional course work in nursing theory, practice and/or research.</li> <li>● A GPA of 3.5 in the last two years of study.</li> <li>● Graduate qualitative and quantitative (with some statistics) research courses, or one graduate course in statistics and one in research methods (or equivalent), with a final grade of B or higher.</li> <li>● Completion of an interview with the prospective supervisor <b>and / or Graduate Admission Committee</b>.</li> <li>● Written agreement with a supervisor.</li> </ul>
<p><b>Master of Nursing</b></p> <p><b>Program Requirements</b></p> <p>...</p> <p><b>Required courses (24 units)</b></p> <p>...</p> <ul style="list-style-type: none"> <li>● NURS 594 - Applied Inquiry II - Grand Challenge Questions <b>OR a 600 level research methods course or equivalent course approved by department</b></li> </ul>	<p><b>Master of Nursing</b></p> <p><b>Program Requirements</b></p> <p>...</p> <p><b>Required courses (24 units)</b></p> <p>...</p> <ul style="list-style-type: none"> <li>● NURS 594 - Applied Inquiry II - Grand Challenge Questions. <b>Note: may choose a 500 or 600 level research methods course or equivalent course approved by department as alternative</b></li> </ul>

<p><b>ADD to</b>  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47761&amp;returnto=12424">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47761&amp;returnto=12424</a></p>	<p><b>Master of Nursing</b></p> <p><b>Program Requirements</b></p> <p>The MN program aims to prepare graduates to:</p> <ul style="list-style-type: none"> <li>• Explore, develop, and apply knowledge in a substantive area of nursing inquiry to advance practice, health, and system improvement.</li> </ul> <p>...</p> <p><b>Academic Standing Requirement</b></p> <p>Students are required to maintain a minimum cumulative grade point average (GPA) of 3.0, with no grade less than C+, throughout the course of the program. Failure to maintain the required cumulative GPA will normally result in a recommendation by the Associate Dean, Graduate Studies to FGSR that the student be placed on academic probation or required to withdraw.</p> <p><b>Length of Program</b></p> <p>The Master’s program can be completed within a two-year period...</p>
<p><b>ADD to</b>  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47761&amp;returnto=12424">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47761&amp;returnto=12424</a></p>	<p><b>Master of Nursing with specialization in Aging (Nursing)</b></p> <p>A Specialization in Aging is offered in collaboration with the Faculty of Nursing and the Department of Human Ecology. Students focus their capping project or thesis on aging. The required course is NURS 604.</p> <p><b>Program Requirements</b></p> <p>Students in the MN program with a specialization in Aging can select a thesis-based or course-based route.</p> <p>...</p> <p><b>Academic Standing Requirement</b></p> <p>Students are required to maintain a minimum cumulative grade point average (GPA) of 3.0, with no grade less than C+, throughout the course of the program. Failure to maintain the required cumulative GPA will normally result in a recommendation by the Associate Dean, Graduate Studies to FGSR that the student be placed on academic probation or required to withdraw.</p>

	<p><b>Clinical Requirements for Nursing Courses</b></p> <p>Students are responsible for the health...</p>
<p><b>ADD to</b>  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47761&amp;returnto=12424">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=47761&amp;returnto=12424</a></p>	<p><b>Doctor of Philosophy (Nursing)</b></p> <p><b>Program Mission</b></p> <p>...</p> <p><b>Academic Standing Requirement</b></p> <p>Students are required to maintain a minimum cumulative grade point average (GPA) of 3.0, with no grade less than C+, throughout the course of the program. Failure to maintain the required cumulative GPA will normally result in a recommendation by the Associate Dean, Graduate Studies to FGSR that the student be placed on academic probation or required to withdraw.</p> <p><b>Residence Requirement</b></p> <p>There is no requirement for a minimum period of residence on campus...</p>

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date.</p> <ul style="list-style-type: none"> <li>● GPST Graduate Program Support Team - Oct 23, 2023</li> <li>● Faculty of Nursing Council - Oct 24, 2023, submitted to Nursing Dean Oct 6, submitted updated copy Oct 16</li> <li>● FGSR Council - Dec 6, 2023</li> <li>● Programs Committee - Jan 2024</li> </ul>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <ul style="list-style-type: none"> <li>● Faculty of Nursing Graduate Education Committee - Approved - Sep 18, 2023</li> <li>● Faculty of Nursing Caucus - Approved Sep 25, 2023</li> </ul>

Faculty (& Department or Academic Unit):	Biological Sciences, Faculty of Science
Contact Person:	Maya Evenden, bioacu@ualberta.ca
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>Undergraduate</li> <li>Graduate</li> </ul>
For which term will this change take effect?	

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This change reflects how the course (Bioin 401) has been operating for the past 5 years (after the Bioinformatics Major was dropped by the Faculty of Science). The change is intended to increase course enrollment, to engage and draw more undergraduate students into bioinformatics research, to prepare more students for graduate studies in bioinformatics and to recognize the fact that bioinformatics is not just about genetics or the application of computing to solve genetics problems. It also provides more flexibility for the course instructor(s) to admit students into the course who do not have exactly the right prerequisites but who are more-than-qualified to take the course.

## Course Template

Current: <del>Removed language</del>	Proposed: New language
<p><b>Subject &amp; Number</b> BIOIN 401</p> <p><b>Title</b> Bioinformatics I</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3.0  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty</b>  <b>Department</b>  <b>Typically Offered</b> Winter (second term)</p> <p><b>Description</b></p> <p>Advanced topics in bioinformatics will be covered. A major part of the course will be devoted to team-based projects involving writing novel bioinformatics tools to deal with current problems in bioinformatics. Prerequisites: BIOIN 301, a 300-level CMPUT course and a 300-level GENET course. (Offered jointly by the Departments of Computing Science and Biological Sciences). [Biological Sciences].</p>	<p><b>Subject &amp; Number</b> BIOIN 401</p> <p><b>Title</b> Bioinformatics I</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3.0  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty</b>  <b>Department</b>  <b>Typically Offered</b> Winter ( second Term)</p> <p><b>Description</b></p> <p>Advanced topics in bioinformatics will be covered. A major part of the course will be devoted to team-based projects involving writing novel bioinformatics tools to deal with current problems in bioinformatics. Prerequisites: BIOIN 301, a 300-level CMPUT course and an additional 300-level course in any of the following BIOCH, BIOIN, BIOL, BOT, CELL, ENT, GENET, IMIN, MA SC, MICRB, MMI, NEURO, PALEO, PHYSL, PMCOL, ZOOL.</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) approved on March 3, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Biological Sciences Department Course and curriculum committee approved on Jan 31, 2023.

Biological Science Departmental Council approved on Feb 15, 2023.

Faculty (& Department or Academic Unit):	Science/Biological Sciences
Contact Person:	Mark Boyce
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Winter 2025

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

1. As an advanced course in ecology with a strong quantitative prerequisite, BIOL 331 is an anomaly at the 300-level. It would make more sense to have a 400-level course instead.
2. A 400-level replacement for BIOL 331 could be opened up to graduate students and offered as BIOL 431/531, which would be useful because we are urgently deficient in winter-term courses for graduate students.

Please note that this is not simply a change of course number (the description is different, as well as the prerequisites list). We therefore request a new course id for BIOL 431.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> BIOL-334</p> <p><b>Title</b> Population Ecology</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-3</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Science</p> <p><b>Department</b> Biological Sciences</p> <p><b>Typically Offered</b> second term</p> <p><b>Description</b></p> <p>Principles of population ecology as they apply to plants and animals; population consequences of variation among individuals; habitat structure and population structure; habitat selection and foraging theory; life tables, demography, and the evolution of life history patterns; population dynamics; interactions among organisms (predation, competition, mutualism); and population regulation. Prerequisites: BIOL-208; any one of MATH 113, 114, 115, 120, 125 or SCI 100; STAT 151 or SCI 151.</p>	<p>[delete course]</p>

<p>[new course]</p>	<p><b>Subject &amp; Number</b> BIOL 431</p> <p><b>Title</b> Population Ecology</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-3</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Science</p> <p><b>Department</b> Biological Sciences</p> <p><b>Typically Offered</b> second term</p> <p><b>Description</b></p> <p>Principles of population ecology as they apply to plants and animals; population consequences of variation among individuals; habitat structure and population structure; habitat selection and foraging theory; life tables, demography, and the evolution of life history patterns; population dynamics; interactions among organisms (predation, competition, mutualism, parasites/disease); harvesting; and population regulation. Prerequisites: BIOL 208; BIOL 330; one of MATH 114, 125, 134, 144, or 154; STAT 151 or 161.</p>
---------------------	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty of Science Undergraduate Program Committee on October 6, 2023.</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p>



Faculty (& Department or Academic Unit):	Science/Chemistry
Contact Person:	Christie McDermott/Chris Cairo
Level of change: (choose one only) [?]	● Undergraduate
	● Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The course description for CHEM 399 is changing due to the different way CHEM 399 can be used in the new BSc programs. The course description for CHEM 313 is changing to update for the new Physics course, PHYS 181.

## Course Template

Current: <del>Removed language</del>	Proposed: New language
<p><b>CHEM 313 - Instrumentation in Chemical Analysis</b></p> <hr/> <p><b>Course Career Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 3-0-4</b>  <b>Fee index 6</b>  <b>Faculty Science</b>  <b>Department Chemistry</b>  <b>Typically Offered first term</b></p> <p><b>Description</b>            A continuation of CHEM 213 delving more deeply into advanced concepts in chemical instrumentation including separations, mass spectrometry, optical spectroscopy and electrochemistry. Concepts of signals, electronics, and data interpretation are also explored and applied in the laboratory. Prerequisites: CHEM 213 and PHYS 124 or 144. PHYS 126 or 146 is recommended.</p>	<p><b>CHEM 313 - Instrumentation in Chemical Analysis</b></p> <hr/> <p><b>Course Career Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 3-0-4</b>  <b>Fee index 6</b>  <b>Faculty Science</b>  <b>Department Chemistry</b>  <b>Typically Offered first term</b></p> <p><b>Description</b>            A continuation of CHEM 213 delving more deeply into advanced concepts in chemical instrumentation including separations, mass spectrometry, optical spectroscopy and electrochemistry. Concepts of signals, electronics, and data interpretation are also explored and applied in the laboratory. Prerequisites: CHEM 213 and PHYS 124 or 144. PHYS 126 or 146 <b>or 181</b> is recommended.</p>

<p><b>CHEM 399 - Research Experience in Chemistry</b></p> <hr/> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1.5  <b>Approved Hours</b> 0-0-6  <b>Fee index</b> 3  <b>Faculty Science</b>  <b>Department</b> Chemistry  <b>Typically Offered</b> either term</p> <p><b>Description</b>  A credit/no-credit course for participation in a research project under the direction of a member of the Department. Students taking CHEM 401 or 403 cannot concurrently take CHEM 399. <del>Credits for CHEM 399 count as science options in all chemistry programs.</del> Credit for this course may be obtained up to four times. Prerequisites: Departmental permission. *9 of 200-level chemistry or *3 of 300-level chemistry.</p>	<p><b>CHEM 399 - Research Experience in Chemistry</b></p> <hr/> <p><b>Course Career</b> Undergraduate  <b>Units</b> 1.5  <b>Approved Hours</b> 0-0-6  <b>Fee index</b> 3  <b>Faculty Science</b>  <b>Department</b> Chemistry  <b>Typically Offered</b> either term</p> <p><b>Description</b>  A credit/no-credit course for participation in a research project under the direction of a member of the Department. Students taking CHEM 401 or 403 cannot concurrently take CHEM 399. Credit for this course may be obtained up to four times. Prerequisites: Departmental permission. *9 of 200-level chemistry or *3 of 300-level chemistry.</p>
---	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. **Science Undergraduate Programs Committee, November 24, 2023**

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Science, Computing Science
Contact Person:	Ken Wong
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

CMPUT 403 no longer has a project component, and so it is removed as a way to satisfy the Honors capstone requirement.

CMPUT 401 is a basic requirement of the Software Practice option (both Major and Honors), so it should not appear on the list of options to satisfy the Honors capstone for the Software Practice option.

Instead of requiring CMPUT 367 or 466, the AI option programs will require just CMPUT 467 (new course to replace CMPUT 367).

Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200 level or above.

Notes changed as needed to ensure that enough CMPUT units are taken at the 400-level.

### Calendar Copy

URL in current Calendar (or "New page")	
<a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50435">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50435</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language

# Honors in Computing Science Requirements

---

## Foundation Courses

---

- CMPUT 174 - Introduction to the Foundations of Computation I
- CMPUT 175 - Introduction to the Foundations of Computation II

3 units from:

---

- MATH 117 - Honors Calculus I
- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I

3 units from:

---

- MATH 118 - Honors Calculus II
- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and

# Honors in Computing Science Requirements

---

## Foundation Courses

---

- CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)

3 units from:

---

- MATH 117 - Honors Calculus I
- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I

3 units from:

---

- MATH 118 - Honors Calculus II
- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and

Economics II

3 units from:

---

- MATH 125 - Linear Algebra I
- MATH 127 - Honors Linear Algebra I

3 units from:

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I

Senior Courses

---

- CMPUT 201 - Practical Programming Methodology
- CMPUT 204 - Algorithms I
- CMPUT 229 - Computer Organization and Architecture I
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 291 - Introduction to File and Database Management

3 units from:

---

Economics II

3 units from:

---

- MATH 125 - Linear Algebra I
- MATH 127 - Honors Linear Algebra I

3 units from:

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I

Senior Courses

---

- CMPUT 201 - Practical Programming Methodology (See Note 1)
- CMPUT 204 - Algorithms I
- CMPUT 229 - Computer Organization and Architecture I
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 291 - Introduction to File and Database Management

3 units from:

---

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 300 - Computers and Society

3 units from:

---

- CMPUT 399 - Topics in Computing Science (See Note 2)
- CMPUT 401 - Software Process and Product Management
- ~~CMPUT 403 - Algorithmics in Competitive Programming~~
- CMPUT 469 - Artificial Intelligence Capstone
- CMPUT 499 - Topics in Computing Science

3 units from:

---

- STAT 252 - Introduction to Applied Statistics II
- STAT 266 - Probability and Statistics II

18 units from:

---

- any 300- and 400-level CMPUT course

12 units from:

---

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 300 - Computers and Society

3 units from:

---

- CMPUT 399 - Topics in Computing Science (See Note 2)
- CMPUT 401 - Software Process and Product Management
- CMPUT 469 - Artificial Intelligence Capstone
- CMPUT 499 - Topics in Computing Science

3 units from:

---

- STAT 252 - Introduction to Applied Statistics II
- STAT 266 - Probability and Statistics II

18 units from:

---

- any 300- and 400-level CMPUT course

12 units from:

---

- any 400-level CMPUT course

Notes:

---

1. ~~CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175 and CMPUT 201.~~
2. If CMPUT 399 is taken, at least 3 units of the 18 units from any 300- and 400-level CMPUT course requirement must be at the 400 level.
3. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.

- any 400-level CMPUT course

Notes:

---

1. Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200 level or above.
2. If CMPUT 399 is taken, at least 3 units of the 18 units from any 300 and 400-level CMPUT course requirement must be at the 400 level.
3. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.

Major in Computing Science Requirements

---

Foundation Courses

---

- [CMPUT 174 - Introduction to the](#)

Major in Computing Science Requirements

---

Foundation Courses

---

- [CMPUT 174 - Introduction to the](#)

- Foundations of Computation I
- CMPUT 175 - Introduction to the Foundations of Computation II
  - MATH 125 - Linear Algebra I

3 units from:

- 
- MATH 134 - Calculus for the Life Sciences I
  - MATH 144 - Calculus for the Mathematical and Physical Sciences I
  - MATH 154 - Calculus for Business and Economics I

3 units from:

- 
- MATH 136 - Calculus for the Life Sciences II
  - MATH 146 - Calculus for the Mathematical and Physical Sciences II
  - MATH 156 - Calculus for Business and Economics II

3 units from:

- 
- STAT 151 - Introduction to Applied Statistics I
  - STAT 235 - Introductory Statistics for Engineering

- Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)
  - MATH 125 - Linear Algebra I

3 units from:

- 
- MATH 134 - Calculus for the Life Sciences I
  - MATH 144 - Calculus for the Mathematical and Physical Sciences I
  - MATH 154 - Calculus for Business and Economics I

3 units from:

- 
- MATH 136 - Calculus for the Life Sciences II
  - MATH 146 - Calculus for the Mathematical and Physical Sciences II
  - MATH 156 - Calculus for Business and Economics II

3 units from:

- 
- STAT 151 - Introduction to Applied Statistics I
  - STAT 235 - Introductory Statistics for Engineering



- [STAT 265 - Probability and Statistics I](#)

## Senior Courses

---

6 units from:

---

- [CMPUT 201 - Practical Programming Methodology](#)
- [CMPUT 204 - Algorithms I](#)
- [CMPUT 229 - Computer Organization and Architecture I](#)
- [CMPUT 272 - Formal Systems and Logic in Computing Science](#)
- [CMPUT 291 - Introduction to File and Database Management](#)

3 units from:

---

- [CMPUT 200 - Ethics of Data Science and Artificial Intelligence](#)
- [CMPUT 300 - Computers and Society](#)

3 units from:

---

- [STAT 252 - Introduction to Applied Statistics II](#)
- [STAT 266 - Probability and Statistics II](#)

18 units from:

- [STAT 265 - Probability and Statistics I](#)

## Senior Courses

---

6 units from:

---

- [CMPUT 201 - Practical Programming Methodology \(See Note 1\)](#)
- [CMPUT 204 - Algorithms I](#)
- [CMPUT 229 - Computer Organization and Architecture I](#)
- [CMPUT 272 - Formal Systems and Logic in Computing Science](#)
- [CMPUT 291 - Introduction to File and Database Management](#)

3 units from:

---

- [CMPUT 200 - Ethics of Data Science and Artificial Intelligence](#)
- [CMPUT 300 - Computers and Society](#)

3 units from:

---

- [STAT 252 - Introduction to Applied Statistics II](#)
- [STAT 266 - Probability and Statistics II](#)

18 units from:

<hr/> <ul style="list-style-type: none"> <li>any 300- and 400-level CMPUT course</li> </ul> <p>6 units from:</p> <hr/> <ul style="list-style-type: none"> <li>any 400-level CMPUT course</li> </ul> <p>Notes:</p> <hr/> <ol style="list-style-type: none"> <li><del>CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175 and CMPUT 201.</del></li> <li>Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</li> </ol>	<hr/> <ul style="list-style-type: none"> <li>any 300- and 400-level CMPUT course</li> </ul> <p>6 units from:</p> <hr/> <ul style="list-style-type: none"> <li>any 400-level CMPUT course</li> </ul> <p>Notes:</p> <hr/> <ol style="list-style-type: none"> <li>Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200 level or above.</li> <li>Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</li> </ol>
<p>Honors in Computing Science - Software Practice Option</p>	<p>Honors in Computing Science - Software Practice Option</p>

## Requirements

---

### Foundation Courses

---

- CMPUT 174 - Introduction to the Foundations of Computation I
- CMPUT 175 - Introduction to the Foundations of Computation II

### 3 units from:

---

- MATH 117 - Honors Calculus I
- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I

### 3 units from:

---

- MATH 118 - Honors Calculus II
- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and Economics II

## Requirements

---

### Foundation Courses

---

- CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)

### 3 units from:

---

- MATH 117 - Honors Calculus I
- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I

### 3 units from:

---

- MATH 118 - Honors Calculus II
- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and Economics II

3 units from:

---

- MATH 125 - Linear Algebra I
- MATH 127 - Honors Linear Algebra I

3 units from:

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I

Senior Courses

---

- CMPUT 201 - Practical Programming Methodology
- CMPUT 204 - Algorithms I
- CMPUT 229 - Computer Organization and Architecture I
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 291 - Introduction to File and Database Management
- CMPUT 301 - Introduction to Software Engineering
- CMPUT 325 - Non-Procedural Programming Languages
- CMPUT 379 - Operating System Concepts

3 units from:

---

- MATH 125 - Linear Algebra I
- MATH 127 - Honors Linear Algebra I

3 units from:

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I

Senior Courses

---

- CMPUT 201 - Practical Programming Methodology (See Note 1)
- CMPUT 204 - Algorithms I
- CMPUT 229 - Computer Organization and Architecture I
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 291 - Introduction to File and Database Management
- CMPUT 301 - Introduction to Software Engineering
- CMPUT 325 - Non-Procedural Programming Languages
- CMPUT 379 - Operating System Concepts

- CMPUT 401 - Software Process and Product Management
- CMPUT 402 - Software Quality

3 units from:

---

- STAT 252 - Introduction to Applied Statistics II
- STAT 266 - Probability and Statistics II

3 units from:

---

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 300 - Computers and Society

3 units from:

---

- CMPUT 304 - Algorithms II
- CMPUT 340 - Introduction to Numerical Methods
- CMPUT 474 - Formal Languages, Automata, and Computability

3 units from:

---

- CMPUT 399 - Topics in Computing Science
- ~~CMPUT 401 - Software Process and Product Management~~

- CMPUT 401 - Software Process and Product Management
- CMPUT 402 - Software Quality

3 units from:

---

- STAT 252 - Introduction to Applied Statistics II
- STAT 266 - Probability and Statistics II

3 units from:

---

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 300 - Computers and Society

3 units from:

---

- CMPUT 304 - Algorithms II (See Note 2)
- CMPUT 340 - Introduction to Numerical Methods (See Note 2)
- CMPUT 474 - Formal Languages, Automata, and Computability

3 units from:

---

- CMPUT 399 - Topics in Computing Science (See Note 2)
- CMPUT 469 - Artificial Intelligence

<ul style="list-style-type: none"> <li>• <del>CMPUT 403 – Algorithmics in Competitive Programming</del></li> <li>• CMPUT 469 - Artificial Intelligence Capstone</li> <li>• CMPUT 499 - Topics in Computing Science</li> </ul> <p>12 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• any 300- and 400-level CMPUT course</li> </ul> <p>9 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• any 400-level CMPUT course (up to 3 units can be at the 300-level if CMPUT 474 taken above)</li> </ul> <p>12 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• any course offered by the Faculty of Business (with the exception of BTM 311, BTM 415, BTM 419, and MGTSC 312); must include 6 units in courses with the following course designators: <ul style="list-style-type: none"> <li>○ BTM</li> <li>○ MGTSC</li> <li>○ OM</li> </ul> </li> </ul> <p>8-, 12-, or 16-month Science Internship (SIP)</p>	<p>Capstone</p> <ul style="list-style-type: none"> <li>• CMPUT 499 - Topics in Computing Science</li> </ul> <p>12 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• any 300- and 400-level CMPUT course</li> </ul> <p>9 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• any 400-level CMPUT course</li> </ul> <p>12 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• any course offered by the Faculty of Business (with the exception of BTM 311, BTM 415, BTM 419, and MGTSC 312); must include 6 units in courses with the following course designators: <ul style="list-style-type: none"> <li>○ BTM</li> <li>○ MGTSC</li> <li>○ OM</li> </ul> </li> </ul> <p>8-, 12-, or 16-month Science Internship (SIP)</p>
--	---

- Students who fail to complete a placement in the SIP must withdraw from the program and reapply to continue in the Honors in Computing Science or Major in Computing Science programs.
- See Science Internship Program for more information.

Notes:

1. ~~CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175 and CMPUT 201.~~
2. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.

Major in Computing Science - Software Practice Option

- Students who fail to complete a placement in the SIP must withdraw from the program and reapply to continue in the Honors in Computing Science or Major in Computing Science programs.
- See Science Internship Program for more information.

Notes:

1. Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200 level or above.
2. At least 18 CMPUT units must be taken at the 400-level.
3. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.

Major in Computing Science - Software Practice Option

## Requirements

---

### Foundation Courses

---

- [CMPUT 174 - Introduction to the Foundations of Computation I](#)
- [CMPUT 175 - Introduction to the Foundations of Computation II](#)
- [MATH 125 - Linear Algebra I](#)

3 units from:

---

- [MATH 134 - Calculus for the Life Sciences I](#)
- [MATH 144 - Calculus for the Mathematical and Physical Sciences I](#)
- [MATH 154 - Calculus for Business and Economics I](#)

3 units from:

---

- [MATH 136 - Calculus for the Life Sciences II](#)
- [MATH 146 - Calculus for the Mathematical and Physical Sciences II](#)
- [MATH 156 - Calculus for Business](#)

## Requirements

---

### Foundation Courses

---

- [CMPUT 174 - Introduction to the Foundations of Computation I \(See Note 1\)](#)
- [CMPUT 175 - Introduction to the Foundations of Computation II \(See Note 1\)](#)
- [MATH 125 - Linear Algebra I](#)

3 units from:

---

- [MATH 134 - Calculus for the Life Sciences I](#)
- [MATH 144 - Calculus for the Mathematical and Physical Sciences I](#)
- [MATH 154 - Calculus for Business and Economics I](#)

3 units from:

---

- [MATH 136 - Calculus for the Life Sciences II](#)
- [MATH 146 - Calculus for the Mathematical and Physical Sciences II](#)
- [MATH 156 - Calculus for Business](#)



and Economics II

3 units from:

- 
- STAT 151 - Introduction to Applied Statistics I
  - STAT 235 - Introductory Statistics for Engineering
  - STAT 265 - Probability and Statistics I

Senior Courses

- 
- CMPUT 201 - Practical Programming Methodology
  - CMPUT 204 - Algorithms I
  - CMPUT 229 - Computer Organization and Architecture I
  - CMPUT 272 - Formal Systems and Logic in Computing Science
  - CMPUT 291 - Introduction to File and Database Management
  - CMPUT 301 - Introduction to Software Engineering
  - CMPUT 325 - Non-Procedural Programming Languages
  - CMPUT 379 - Operating System Concepts
  - CMPUT 401 - Software Process and Product Management
  - CMPUT 402 - Software Quality

3 units from:

---

and Economics II

3 units from:

- 
- STAT 151 - Introduction to Applied Statistics I
  - STAT 235 - Introductory Statistics for Engineering
  - STAT 265 - Probability and Statistics I

Senior Courses

- 
- CMPUT 201 - Practical Programming Methodology (See Note 1)
  - CMPUT 204 - Algorithms I
  - CMPUT 229 - Computer Organization and Architecture I
  - CMPUT 272 - Formal Systems and Logic in Computing Science
  - CMPUT 291 - Introduction to File and Database Management
  - CMPUT 301 - Introduction to Software Engineering
  - CMPUT 325 - Non-Procedural Programming Languages
  - CMPUT 379 - Operating System Concepts
  - CMPUT 401 - Software Process and Product Management
  - CMPUT 402 - Software Quality

3 units from:

---

- [STAT 252 - Introduction to Applied Statistics II](#)
- [STAT 266 - Probability and Statistics II](#)

3 units from:

- 
- [CMPUT 200 - Ethics of Data Science and Artificial Intelligence](#)
  - [CMPUT 300 - Computers and Society](#)

3 units from:

- 
- [CMPUT 304 - Algorithms II](#)
  - [CMPUT 340 - Introduction to Numerical Methods](#)
  - [CMPUT 474 - Formal Languages, Automata, and Computability](#)

6 units from:

- 
- any 300- and 400-level CMPUT course

3 units from:

- 
- any 400-level CMPUT course (can be at the 300-level if [CMPUT 474](#) taken above)

- [STAT 252 - Introduction to Applied Statistics II](#)
- [STAT 266 - Probability and Statistics II](#)

3 units from:

- 
- [CMPUT 200 - Ethics of Data Science and Artificial Intelligence](#)
  - [CMPUT 300 - Computers and Society](#)

3 units from:

- 
- [CMPUT 304 - Algorithms II](#)
  - [CMPUT 340 - Introduction to Numerical Methods](#)
  - [CMPUT 474 - Formal Languages, Automata, and Computability](#)

6 units from:

- 
- any 300- and 400-level CMPUT course

3 units from:

- 
- any 400-level CMPUT course (can be at the 300-level if [CMPUT 474](#) taken above)

12 units from:

- any course offered by the Faculty of Business (with the exception of [BTM 311](#), [BTM 415](#), [BTM 419](#), and [MGTSC 312](#)); must include 6 units in courses with the following course designators:
  - BTM
  - MGTSC
  - OM

8-, 12-, or 16-month Science Internship (SIP)

- Students who fail to complete a placement in the SIP must withdraw from the program and reapply to continue in the Major in Computing Science program.
- See [Science Internship Program](#) for more information.

Notes:

~~1. [CMPUT 274](#) can serve as a substitute for [CMPUT 174](#). [CMPUT 275](#) can serve as a substitute for [CMPUT 175](#)~~

12 units from:

- any course offered by the Faculty of Business (with the exception of [BTM 311](#), [BTM 415](#), [BTM 419](#), and [MGTSC 312](#)); must include 6 units in courses with the following course designators:
  - BTM
  - MGTSC
  - OM

8-, 12-, or 16-month Science Internship (SIP)

- Students who fail to complete a placement in the SIP must withdraw from the program and reapply to continue in the Major in Computing Science program.
- See [Science Internship Program](#) for more information.

Notes:

1. Students may replace [CMPUT 174](#) with [CMPUT 274](#), and [CMPUT 175](#) with [CMPUT 275](#). Students who take [CMPUT 275](#) cannot

<p><del>and CMPUT 201.</del></p> <p>2. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</p>	<p>take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200 level or above.</p> <p>2. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</p>
<h2>Honors in Computing Science - Artificial Intelligence Option Requirements</h2> <hr/> <h3>Foundation Courses</h3> <hr/> <ul style="list-style-type: none"> <li>• CMPUT 174 - Introduction to the Foundations of Computation I</li> <li>• CMPUT 175 - Introduction to the Foundations of Computation II</li> </ul> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• MATH 117 - Honors Calculus I</li> <li>• MATH 134 - Calculus for the Life Sciences I</li> <li>• MATH 144 - Calculus for the Mathematical and Physical Sciences I</li> </ul>	<h2>Honors in Computing Science - Artificial Intelligence Option Requirements</h2> <hr/> <h3>Foundation Courses</h3> <hr/> <ul style="list-style-type: none"> <li>• CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)</li> <li>• CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)</li> </ul> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>• MATH 117 - Honors Calculus I</li> <li>• MATH 134 - Calculus for the Life Sciences I</li> <li>• MATH 144 - Calculus for the Mathematical and Physical Sciences I</li> </ul>

- MATH 154 - Calculus for Business and Economics I

3 units from:

- 
- MATH 118 - Honors Calculus II
  - MATH 136 - Calculus for the Life Sciences II
  - MATH 146 - Calculus for the Mathematical and Physical Sciences II
  - MATH 156 - Calculus for Business and Economics II

3 units from:

- 
- MATH 125 - Linear Algebra I
  - MATH 127 - Honors Linear Algebra I

3 units from:

- 
- STAT 151 - Introduction to Applied Statistics I
  - STAT 235 - Introductory Statistics for Engineering
  - STAT 265 - Probability and Statistics I

## Senior Courses

- 
- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
  - CMPUT 201 - Practical Programming Methodology
  - CMPUT 204 - Algorithms I
  - CMPUT 229 - Computer Organization and Architecture I
  - CMPUT 261 - Introduction to Artificial Intelligence
  - ~~CMPUT 267 - Basics of Machine Learning~~
  - CMPUT 272 - Formal Systems and Logic in Computing Science
  - CMPUT 291 - Introduction to File and

- MATH 154 - Calculus for Business and Economics I

3 units from:

- 
- MATH 118 - Honors Calculus II
  - MATH 136 - Calculus for the Life Sciences II
  - MATH 146 - Calculus for the Mathematical and Physical Sciences II
  - MATH 156 - Calculus for Business and Economics II

3 units from:

- 
- MATH 125 - Linear Algebra I
  - MATH 127 - Honors Linear Algebra I

3 units from:

- 
- STAT 151 - Introduction to Applied Statistics I
  - STAT 235 - Introductory Statistics for Engineering
  - STAT 265 - Probability and Statistics I

## Senior Courses

- 
- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
  - CMPUT 201 - Practical Programming Methodology (See Note 1)
  - CMPUT 204 - Algorithms I
  - CMPUT 229 - Computer Organization and Architecture I
  - CMPUT 261 - Introduction to Artificial Intelligence
  - ~~CMPUT 267 - Basics of Machine Learning~~
  - ~~CMPUT 272 - Formal Systems and Logic in Computing Science~~
  - ~~CMPUT 291 - Introduction to File and~~

<p>Database Management</p> <ul style="list-style-type: none"> <li>● CMPUT 365 - Introduction to Reinforcement Learning</li> <li>● CMPUT 366 - Search and Planning in Artificial Intelligence</li> <li>● CMPUT 469 - Artificial Intelligence Capstone</li> </ul> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● STAT 252 - Introduction to Applied Statistics II</li> <li>● STAT 266 - Probability and Statistics II</li> </ul> <p><del>3 units from:</del></p> <hr/> <ul style="list-style-type: none"> <li>● <del>CMPUT 367 - Intermediate Machine Learning (see Note 3)</del></li> <li>● <del>CMPUT 466 - Machine Learning (see Note 3)</del></li> </ul> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● CMPUT 312 - Introduction to Robotics and Mechatronics</li> <li>● CMPUT 328 - Visual Recognition</li> <li>● CMPUT 340 - Introduction to Numerical Methods</li> <li>● CMPUT 350 - Advanced Games Programming</li> </ul> <p>6 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● CMPUT 412 - Experimental Mobile Robotics</li> <li>● CMPUT 455 - Search, Knowledge and Simulation</li> <li>● CMPUT 461 - Introduction to Natural Language Processing</li> <li>● CMPUT 463 - Probabilistic Graphical</li> </ul>	<p>Database Management</p> <ul style="list-style-type: none"> <li>● CMPUT 365 - Introduction to Reinforcement Learning</li> <li>● CMPUT 366 - Search and Planning in Artificial Intelligence</li> <li>● <b>CMPUT 467 - Machine Learning II</b></li> <li>● CMPUT 469 - Artificial Intelligence Capstone</li> </ul> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● STAT 252 - Introduction to Applied Statistics II</li> <li>● STAT 266 - Probability and Statistics II</li> </ul> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● CMPUT 312 - Introduction to Robotics and Mechatronics</li> <li>● CMPUT 328 - Visual Recognition</li> <li>● CMPUT 340 - Introduction to Numerical Methods</li> <li>● CMPUT 350 - Advanced Games Programming</li> </ul> <p>6 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● CMPUT 412 - Experimental Mobile Robotics</li> <li>● CMPUT 455 - Search, Knowledge and Simulation</li> <li>● CMPUT 461 - Introduction to Natural Language Processing</li> <li>● CMPUT 463 - Probabilistic Graphical</li> </ul>
---	---

<p style="text-align: center;">Models</p> <p><b>15</b> units from:</p> <hr/> <ul style="list-style-type: none"> <li>any 300- and 400-level CMPUT course</li> </ul> <p><b>9</b> units from:</p> <hr/> <ul style="list-style-type: none"> <li>any 400-level CMPUT course</li> </ul> <p>Notes:</p> <hr/> <ol style="list-style-type: none"> <li><del>CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175 and CMPUT 201.</del></li> <li>Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</li> <li><del>Credit may not be obtained for both CMPUT 367 and CMPUT 466.</del></li> </ol>	<p style="text-align: center;">Models</p> <p><b>18</b> units from:</p> <hr/> <ul style="list-style-type: none"> <li>any 300- and 400-level CMPUT course</li> </ul> <p><b>6</b> units from:</p> <hr/> <ul style="list-style-type: none"> <li>any 400-level CMPUT course</li> </ul> <p>Notes:</p> <hr/> <ol style="list-style-type: none"> <li>Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200 level or above.</li> <li>Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</li> </ol>
<p style="text-align: center;"><b>Major in Computing Science - Artificial Intelligence Option Requirements</b></p> <hr/>	<p style="text-align: center;"><b>Major in Computing Science - Artificial Intelligence Option Requirements</b></p> <hr/>

## Foundation Courses

---

- CMPUT 174 - Introduction to the Foundations of Computation I
- CMPUT 175 - Introduction to the Foundations of Computation II
- MATH 125 - Linear Algebra I

3 units from:

---

- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I

3 units from:

---

- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and Economics II

3 units from:

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I

## Senior Courses

---

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 204 - Algorithms I

## Foundation Courses

---

- CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)
- MATH 125 - Linear Algebra I

3 units from:

---

- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I

3 units from:

---

- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and Economics II

3 units from:

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I

## Senior Courses

---

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 204 - Algorithms I



- CMPUT 261 - Introduction to Artificial Intelligence
- CMPUT 267 - Basics of Machine Learning
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 365 - Introduction to Reinforcement Learning
- CMPUT 366 - Search and Planning in Artificial Intelligence

3 units from:

- 
- CMPUT 201 - Practical Programming Methodology
  - CMPUT 291 - Introduction to File and Database Management

3 units from:

- 
- STAT 252 - Introduction to Applied Statistics II
  - STAT 266 - Probability and Statistics II

~~3 units from:~~

- 
- ~~CMPUT 367 - Intermediate Machine Learning (see Note 3)~~
  - ~~CMPUT 466 - Machine Learning (see Note 3)~~

3 units from:

- 
- CMPUT 312 - Introduction to Robotics and Mechatronics
  - CMPUT 328 - Visual Recognition
  - CMPUT 340 - Introduction to Numerical Methods
  - CMPUT 350 - Advanced Games

- CMPUT 261 - Introduction to Artificial Intelligence
- CMPUT 267 - Basics of Machine Learning
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 365 - Introduction to Reinforcement Learning
- CMPUT 366 - Search and Planning in Artificial Intelligence
- **CMPUT 467 - Machine Learning II**

3 units from:

- 
- CMPUT 201 - Practical Programming Methodology **(See Note 1)**
  - CMPUT 291 - Introduction to File and Database Management

3 units from:

- 
- STAT 252 - Introduction to Applied Statistics II
  - STAT 266 - Probability and Statistics II

3 units from:

- 
- CMPUT 312 - Introduction to Robotics and Mechatronics
  - CMPUT 328 - Visual Recognition
  - CMPUT 340 - Introduction to Numerical Methods
  - CMPUT 350 - Advanced Games

<p style="text-align: center;">Programming</p> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● CMPUT 412 - Experimental Mobile Robotics</li> <li>● CMPUT 455 - Search, Knowledge and Simulation</li> <li>● CMPUT 461 - Introduction to Natural Language Processing</li> <li>● CMPUT 463 - Probabilistic Graphical Models</li> </ul> <p>12 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● any 300- and 400-level CMPUT course</li> </ul> <p>6 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● any 400-level CMPUT course</li> </ul> <p>Notes:</p> <hr/> <ol style="list-style-type: none"> <li>1. <del>CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175 and CMPUT 201.</del></li> <li>2. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</li> <li>3. <del>Credit may not be obtained for both CMPUT 367 and CMPUT 466.</del></li> </ol>	<p style="text-align: center;">Programming</p> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● CMPUT 412 - Experimental Mobile Robotics</li> <li>● CMPUT 455 - Search, Knowledge and Simulation</li> <li>● CMPUT 461 - Introduction to Natural Language Processing</li> <li>● CMPUT 463 - Probabilistic Graphical Models</li> </ul> <p>12 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● any 300- and 400-level CMPUT course</li> </ul> <p>6 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● any 400-level CMPUT course</li> </ul> <p>Notes:</p> <hr/> <ol style="list-style-type: none"> <li>1. Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit.</li> <li>2. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.</li> </ol>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Department of Computing Science Council, approved November 30, 2023.

Faculty (& Department or Academic Unit):	Faculty of Science, Computing Science
Contact Person:	Ken Wong
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

To clarify the pathway for students interested in machine learning, they can do either: (1) an in-depth, “foundational” two-course sequence involving CMPUT 267 and 467, or (2) a “nutshell”, “one-stop shop” course involving just CMPUT 466. Students in the Computing Science AI Option program would do pathway (1). Either pathway ends with CMPUT 400-level units.

CMPUT 467 replaces CMPUT 367, and requires CMPUT 267 as a prerequisite. (Credit cannot be obtained for both CMPUT 367 and 467.) CMPUT 467 can be cross-listed as a grad course, CMPUT 567. Typically, CMPUT 467/567 will be offered in the winter.

CMPUT 466 does not require CMPUT 267 as a prerequisite. CMPUT 466 can be cross-listed as a grad course, CMPUT 566. Typically, CMPUT 466/566 will be offered in the fall.

Machine learning is a very popular topic. To manage enrollments in the courses and to avoid overlaps, students will be encouraged to choose one pathway. That is, credit cannot be obtained for CMPUT 466 if a student already has credit for CMPUT 467. (However, taking CMPUT 466 then CMPUT 467 would be allowed; see further below.)

Historically, the prerequisites of CMPUT 466 have changed from not requiring CMPUT 267, to requiring CMPUT 267, to back to not requiring CMPUT 267.

Historically, credit in both CMPUT 367 and CMPUT 466 was allowed, then not allowed. Credit in both is not allowed in the preview of the AI Option program. We need to handle cases of students who have already taken these courses.

For students who have already taken just CMPUT 367 and want to transfer into the AI Option program, we could waive the CMPUT 467 requirement, and use CMPUT 367 to satisfy it. They will need to take another CMPUT 400-level course, however.

For students who have already taken just CMPUT 466 and want to transfer into the AI Option program, we would have them take CMPUT 467, waiving the CMPUT 267 prerequisite if needed. (That is, credit can be obtained for CMPUT 467 if a student already has credit for CMPUT 466.)

For students who have already taken both CMPUT 367 and 466 and want to transfer into the AI Option program, we would waive the CMPUT 467 requirement, and use CMPUT 367 to satisfy it. CMPUT 466 would count toward their CMPUT 400-level units.

As another course change, to better prepare students for CMPUT 340, which covers algorithms for matrix factorization, a prerequisite of “Linear Algebra II” (i.e., MATH 225 or 227) has been added.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b></p> <p><b>Title</b></p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty</b>  <b>Department</b>  <b>Typically Offered</b></p> <p><b>Description</b></p>	<p><b>Subject &amp; Number</b></p> <p><b>Title</b></p> <p><b>Course Career</b>  <b>Units</b>  <b>Approved Hours</b>  <b>Fee index</b>  <b>Faculty</b>  <b>Department</b>  <b>Typically Offered</b></p> <p><b>Description</b></p>
<p><b>Subject &amp; Number:</b> CMPUT 267</p> <p><b>Title:</b> <b>Basics of Machine Learning</b></p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Computing Science  <b>Typically Offered:</b> either term</p> <p><b>Description</b>  This course introduces the fundamental statistical, mathematical, and computational concepts in analyzing data. The goal for this introductory course is to provide a solid foundation in the mathematics of machine learning, in preparation for more advanced machine learning concepts. The course focuses on univariate models, to simplify some of the mathematics and emphasize some of the underlying concepts in machine learning, including: how should one think about data, how can data be summarized, how models can be estimated from data, what sound estimation principles look like, how generalization is achieved, and how to evaluate the performance of learned models. Prerequisites: CMPUT 174 or 274; one of MATH 100, 114, 117, 134, 144, or 154. Corequisites: CMPUT 175 or 275; CMPUT 272; MATH 125 or 127; one of STAT 144, 151, 235, or 265, or SCI 151.</p>	<p><b>Subject &amp; Number:</b> CMPUT 267</p> <p><b>Title:</b> <b>Machine Learning I</b></p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Computing Science  <b>Typically Offered:</b> either term</p> <p><b>Description</b>  This course introduces the fundamental statistical, mathematical, and computational concepts in analyzing data. The goal for this introductory course is to provide a solid foundation in the mathematics of machine learning, in preparation for more advanced machine learning concepts. The course focuses on univariate models, to simplify some of the mathematics and emphasize some of the underlying concepts in machine learning, including: how should one think about data, how can data be summarized, how models can be estimated from data, what sound estimation principles look like, how generalization is achieved, and how to evaluate the performance of learned models. Prerequisites: CMPUT 174 or 274; one of MATH 100, 114, 117, 134, 144, or 154. Corequisites: CMPUT 175 or 275; CMPUT 272; MATH 102, 125 or 127; one of STAT 151, 161, 181, 235, 265, SCI 151, or MATH 181.</p>

<p><b>Subject &amp; Number:</b> <del>CMPUT 367</del></p> <p><b>Title:</b> <del>Intermediate Machine Learning</del></p> <p><b>Course Career:</b> <del>Undergraduate</del></p> <p><b>Units:</b> <del>3</del></p> <p><b>Approved Hours:</b> <del>3-0-0</del></p> <p><b>Fee index:</b> <del>6</del></p> <p><b>Faculty:</b> <del>Science</del></p> <p><b>Department:</b> <del>Computing Science</del></p> <p><b>Typically Offered:</b> <del>either term</del></p> <p><b>Description</b>  <del>This course in machine learning focuses on higher dimensional data and a broader class of nonlinear function approximation approaches. Topics include: optimization approaches (constrained optimization, Hessians, matrix solutions), kernel machines, neural networks, dimensionality reduction, latent variables, feature selection, more advanced methods for assessing generalization (cross validation, bootstrapping), introduction to non-iid data and missing data. Credit cannot be obtained for both CMPUT 367 and CMPUT 466. Prerequisites: CMPUT 204 and 267; one of MATH 115, 118, 136, 146, or 156.</del></p>	<p>Deleted course</p>
<p><b>Subject &amp; Number:</b> CMPUT 466</p> <p><b>Title:</b> <del>Machine Learning</del></p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-0-3</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Computing Science</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description</b>  <del>Learning is essential for many real-world tasks, including recognition, diagnosis, forecasting and data-mining. This course covers a variety of learning scenarios (supervised, unsupervised and partially supervised), as well as foundational methods for regression, classification, dimensionality reduction and modeling. Techniques such as kernels, optimization and probabilistic graphical models will typically be introduced. It will also provide the formal foundations for understanding when learning is possible and practical. Credit cannot be obtained for both CMPUT 367 and CMPUT 466. Prerequisites: CMPUT 204 or 275; MATH 125; CMPUT 267 or MATH 214; or consent of the instructor.</del></p>	<p><b>Subject &amp; Number:</b> CMPUT 466</p> <p><b>Title:</b> <del>Machine Learning</del> <b>Machine Learning Essentials</b></p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-0-3</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Computing Science</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description</b>  <del>Learning is essential for many real-world tasks, including recognition, diagnosis, forecasting and data-mining. This course provides a broad overview of topics in machine learning, from foundational methods for regression, classification and dimensionality reduction to more complex modeling with neural networks. It will also provide the formal foundations for understanding when learning is possible and practical. This single course is an alternative to the more in-depth two-course sequence on machine learning with CMPUT 267 and 467. Prerequisites: CMPUT 204 or 275; any 300-level Computing Science course; MATH 125 or 127; one of MATH 115, 118, 136, 146, or 156; and one of STAT 141,</del></p>

	<p>151, 161, 181, 235, 265, SCI 151, or MATH 181. Credit cannot be obtained in CMPUT 466 if credit has already been obtained for CMPUT 467.</p>
<p>New course</p>	<p><b>Subject &amp; Number:</b> CMPUT 467</p> <p><b>Title:</b> Machine Learning II</p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-0-0</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Computing Science</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description</b>  This is the second course of a two-course sequence on machine learning, with a focus on extending to nonlinear modeling with neural networks and higher-dimensional data. Topics include: optimization approaches (constrained optimization, hessians, matrix solutions), deep learning and neural networks, generative models, more advanced methods for assessing generalization (cross-validation, bootstrapping), introduction to non-iid data and missing data. Prerequisites: CMPUT 204 and CMPUT 267; any 300-level Computing Science course; and one of MATH 101, 115, 118, 136, 146, or 156. Credit cannot be obtained in both CMPUT 367 and 467.</p>
<p><b>Subject &amp; Number:</b> CMPUT 340</p> <p><b>Title:</b> Introduction to Numerical Methods</p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-1S-3</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Computing Science</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description</b>  Computer arithmetic and errors. The study of computational methods for solving problems in linear algebra, non-linear equations, optimization, interpolation and approximation, and integration. This course will provide a basic foundation in numerical methods that supports further study in machine learning; computer</p>	<p><b>Subject &amp; Number:</b> CMPUT 340</p> <p><b>Title:</b> Introduction to Numerical Methods</p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-1S-3</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Computing Science</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description</b>  Computer arithmetic and errors. The study of computational methods for solving problems in linear algebra, non-linear equations, optimization, interpolation and approximation, and integration. This course will provide a basic foundation in numerical methods that supports further study in machine learning; computer</p>

<p>graphics, vision and multimedia; robotics; and other topics in Science and Engineering. Prerequisites: CMPUT 204 or 275; <del>MATH 125, 214</del>; one of STAT <del>141</del>, 151, 235 <del>or 265</del> <del>or</del> SCI 151.</p>	<p>graphics, vision and multimedia; robotics; and other topics in Science and Engineering. Prerequisites: CMPUT 204 or 275; MATH 214; one of MATH 102, 125, or 127; one of MATH 225 or 227; and one of STAT 151, 161, 181, 235, 265, SCI 151, or MATH 181.</p>
---	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.



Faculty (& Department or Academic Unit):	Science - Mathematical and Statistical Sciences
Contact Person:	Christoph Frei, msschair@ualberta.ca
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The proposed changes are necessary for the implementation of a new data science undergraduate program: - It is suggested to change MATH 181 and 281 to STAT 181 and 281, making their course labels consistent with STAT 265, which is in the same area. In the programs of the BSc Renewal, the requirement of STAT 265 will be replaced by requiring STAT 265 or both STAT 181 and STAT 281. Where applicable, the requirement of STAT 266 will be replaced by requiring STAT 266 or STAT 276. Moreover, STAT 281 will replace STAT 371, whose course description is outdated and which will be phased out. - MATH 471 is a new course on Markov models and will be required in the mathematics theme of the data science program. MATH 471 will replace STAT 471, whose course description is outdated and which will be phased out. - Ideally, 181/281/471 would be cross-listed as MATH and STAT, as these probability courses belong to both mathematics and statistics. However, this is not possible for administrative reasons (issues with registrations, repetitions, and transfers). The proposed split in STAT 181/281 and MATH 471 is the best solution given the constraints and reflects that STAT 181 and 281 are closer to statistics while MATH 471 is closer to mathematics. - The introduction of MATH 498 (Mathematical Topics in Data Science) and STAT 498 (Statistical Topics in Data Science) will allow for flexible course offerings related to data science.

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
Subject & Number: <span style="background-color: yellow;">MATH</span> 181 Title : Introduction to Combinatorics and Probability Course Career: Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: fi 6 Faculty: Science Department: Mathematical and Statistical Sciences Typically Offered: either term Description: Induction; principles of counting, multinomial coefficients, negative binomial distribution; maximum likelihood estimation, probability axioms; conditional probability, Bayes' rule; independence; probability mass, distribution, and moment generating functions; strong law of large numbers; conditional expectation estimators; gambler's ruin; transience and recurrence; compound processes; applications. Corequisite: One of MATH 101, 118, 136, 146, or 156. Prerequisite: One of MATH 125 or 127. Note: Credit can be obtained in at most two of <span style="background-color: yellow;">MATH 181, MATH 281, or STAT 265</span> .	Subject & Number: <span style="background-color: yellow;">STAT</span> 181 Title: Introduction to Combinatorics and Probability Course Career: Undergraduate Units: 3 Approved Hours: 3-0-0 Fee index: fi 6 Faculty: Science Department: Mathematical and Statistical Sciences Typically Offered: either term Description: Induction; principles of counting, multinomial coefficients, negative binomial distribution; maximum likelihood estimation, probability axioms; conditional probability, Bayes' rule; independence; probability mass, distribution, and moment generating functions; strong law of large numbers; conditional expectation estimators; gambler's ruin; transience and recurrence; compound processes; applications. Corequisite: One of MATH 101, 118, 136, 146, or 156. Prerequisite: One of MATH 125 or 127. Notes: <span style="background-color: yellow;">(1) Credit can be obtained in at most two of STAT 181, STAT 265, or STAT 281. (2) Credit cannot be</span>

	<p>obtained in STAT 181 if credit has already been obtained in MATH 181.</p>
--	--

<p>Subject &amp; Number: <b>MATH 281</b>          Title: Probability by Counting and Queuing Course          Career: Undergraduate          Units: 3 Approved          Hours: 3-0-0          Fee index: fi 6          Faculty: Science          Department: Mathematical and Statistical Sciences          Typically Offered: either term          Description: Review of binomial and negative binomial distributions; continuous random variables; uniform, exponential, and gamma distributions; conditional probability; properties of conditional expectation; stochastic processes; finite-dimensional distributions, Poisson approximation; Poisson measures; counting processes, Markov queues, customer time in queue ues; steady-state distributions; applications. Corequisite: One of MATH 209, 214, or 217. Credit can be obtained in at most two of <b>MATH 181</b>, STAT 265, or <b>MATH 281</b>. <b>Credit can only be obtained in one of MATH 281 or STAT 371.</b></p>	<p>Subject &amp; Number: <b>STAT 281</b>          Title: Probability by Counting and Queuing Course          Career: Undergraduate          Units: 3          Approved Hours: 3-0-0          Fee index: fi 6          Faculty: Science          Department: Mathematical and Statistical Sciences          Typically Offered: either term          Description: Review of binomial and negative binomial distributions; continuous random variables; uniform, exponential, and gamma distributions; conditional probability; properties of conditional expectation; stochastic processes; finite-dimensional distributions, Poisson approximation; Poisson measures; counting processes, Markov queues, customer time in queues; steady-state distributions; applications. Corequisite: One of MATH 209, 214, or 217. Notes: <b>(1)</b> Credit can be obtained in at most two of <b>STAT 181</b>, STAT 265, or <b>STAT 281</b>. <b>(2) Credit cannot be obtained in STAT 281 if credit has already been obtained in STAT 371.</b></p>
---	---

<p><b>New Course</b></p>	<p>Subject &amp; Number: <b>MATH 471</b>          Title: <b>Markov Models</b>          Course Career: <b>Undergraduate</b>          Units: <b>3</b>          Approved Hours: <b>3-0-0</b>          Fee index: <b>fi 6</b>          Faculty: <b>Science</b>          Department: <b>Mathematical and Statistical Sciences</b>          Typically Offered: <b>either term</b>          Description: <b>Birth-death processes; continuous-time Markov chains; functional central limit theorem; Brownian motion; weak solutions to stochastic differential equations; weak uniqueness; filtrations; discrete and continuous martingales; martingales problems; strong Markov property; Kolmogorov forward and backward equations; stationary distributions; null and positive recurrence; transience; particle filtering. Prerequisite: STAT 281 or STAT 371. Note: Credit cannot be obtained in MATH 471 if credit has already been in STAT 471.</b></p>
--------------------------	--

<p><b>New Course</b></p>	<p>Subject &amp; Number: <b>MATH 498</b>            Title: <b>Mathematical Topics in Data Science</b>            Course Career: <b>Undergraduate</b>            Units: <b>3</b>            Approved Hours: <b>3-0-0</b>            Fee index: <b>fi 6</b>            Faculty: <b>Science</b>            Department: <b>Mathematical and Statistical Sciences</b>            Typically Offered: <b>either term</b>            Description: <b>This topics course is designed for new course offerings that may be offered in a given term.</b>            Prerequisites: <b>One of MATH 209, 214, or 217 and one of MATH 225 or 227. Additional prerequisites may be required. Note: Credit for this course may be obtained more than once.</b></p>
--------------------------	--

<p><b>New Course</b></p>	<p>Subject &amp; Number: <b>STAT 498</b>            Title: <b>Statistical Topics in Data Science</b>            Course Career: <b>Undergraduate</b>            Units: <b>3</b>            Approved Hours: <b>3-0-0</b>            Fee index: <b>fi 6</b>            Faculty: <b>Science</b>            Department: <b>Mathematical and Statistical Sciences</b>            Typically Offered: <b>either term</b>            Description: <b>This topics course is designed for new course offerings that may be offered in a given term.</b>            Prerequisites: <b>One of STAT 266 or 276. Additional prerequisites may be required. Note: Credit for this course may be obtained more than once.</b></p>
--------------------------	--

--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. March 3, 2023

Approved Mathematical and Statistical Sciences Departmental Council, February 7, 2023

Faculty (& Department or Academic Unit):	Mathematical and Statistical Sciences
Contact Person:	David McNeilly dm15@ualberta.ca
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Students taking introductory probability courses (STAT 181, STAT 265, and STAT 281) should be allowed to take STAT 151 or 161. Students should only be prevented from getting credit in STAT 151/161 if they have taken a higher level statistics course such as STAT 235, STAT 266, or STAT 276. Furthermore credit should be granted in at most one of STAT 151, STAT 161, and STAT 235

### Course Template

STAT 151 - Introduction to Applied Statistics I	STAT 151 - Introduction to Applied Statistics I
<b>Course Career</b> Undergraduate	<b>Course Career</b> Undergraduate
<b>Units</b> 3	<b>Units</b> 3
<b>Approved Hours</b> 3-0-0	<b>Approved Hours</b> 3-0-0
<b>Fee index</b> 6	<b>Fee index</b> 6
<b>Faculty</b> Science	<b>Faculty</b> Science
<b>Department</b> Mathematical & Statistical Sci	<b>Department</b> Mathematical & Statistical Sci
<b>Typically Offered</b> either term	<b>Typically Offered</b> either term
<b>Description</b>	<b>Description</b>
Data collection and presentation, descriptive statistics. Probability distributions, sampling distributions and the central limit theorem. Point estimation and hypothesis testing. Correlation and regression analysis. Goodness of fit and contingency table. Prerequisite:	Data collection and presentation, descriptive statistics. Probability distributions, sampling distributions and the central limit theorem. Point estimation and hypothesis testing. Correlation and regression analysis. Goodness of fit and contingency table. Prerequisite:

<p>Mathematics 30-1 or 30-2. <b>Note:</b> This course may not be taken for credit if credit has been obtained in <b>any STAT course, or in</b> KIN 109, PEDS 109, PSYCH 211, SCI 151 or SOC 210.</p>	<p>Mathematics 30-1 or 30-2. <b>Notes: (1) Credit can be obtained in at most one of STAT 151, STAT 161, and STAT 235. (2)</b> This course may not be taken for credit if credit has been obtained in <b>STAT 222, STAT 266, STAT 276,</b> KIN 109, PEDS 109, PSYCH 211, <b>PTHER 352,</b> SCI 151 or SOC 210.</p>
<p>STAT 161 - Introductory Statistics for Business and Economics</p> <hr/> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Mathematical &amp; Statistical Sci  <b>Typically Offered</b> either term</p> <p><b>Description</b>  Data collection and presentation, descriptive statistics. Probability distributions, sampling distributions and the central limit theorem. Point estimation and hypothesis testing. Correlation and regression analysis. Goodness of fit and contingency table. Use of a microcomputer software package for statistical analyses in business and economics. Prerequisite: Mathematics 30-1 or 30-2. This course may not be taken for credit if credit has been obtained in <b>any STAT course, or in</b> KIN 109, PEDS 109, PSYCH 211, PHER 352, SCI 151 or SOC 210.</p>	<p>STAT 161 - Introductory Statistics for Business and Economics</p> <hr/> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Mathematical &amp; Statistical Sci  <b>Typically Offered</b> either term</p> <p><b>Description</b>  Data collection and presentation, descriptive statistics. Probability distributions, sampling distributions and the central limit theorem. Point estimation and hypothesis testing. Correlation and regression analysis. Goodness of fit and contingency table. Use of a microcomputer software package for statistical analyses in business and economics. Prerequisite: Mathematics 30-1 or 30-2. <b>Notes: (1) Credit can be obtained in at most one of STAT 151, STAT 161, and STAT 235. (2)</b> This course may not be taken for credit if credit has been obtained in <b>STAT 222, STAT 266, STAT 276,</b> KIN 109, PEDS 109,</p>

	PSYCH 211, PHER 352, SCI 151 or SOC 210.
<p>STAT 235 - Introductory Statistics for Engineering</p> <hr/> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3.8  <b>Approved Hours</b> 3-0-1.5  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Mathematical &amp; Statistical Sci  <b>Typically Offered</b> either term or Spring/Summer</p> <p><b>Description</b>  Descriptive data analysis. Calculus of Probability. Binomial, multinomial, Poisson, normal, beta, exponential, gamma, hypergeometric, and Weibull distributions. Sampling distributions. Estimation, testing hypotheses, goodness-of-fit tests, and one-way analysis of variance. Linear correlation and regression. Sampling. Quality control. Use of a microcomputer software package for statistical analyses in engineering applications. Prerequisite: MATH 100. Corequisite: MATH 101. Notes: (1) This course may not be taken for credit if credit has already been obtained in one of STAT <del>141</del>, 151, 222, 265, 266; PSYCH 211, SCI 151 or SOC 210. (2) Intended for Engineering students. Other students who take this course will receive *3.0.</p>	<p>STAT 235 - Introductory Statistics for Engineering</p> <hr/> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3.8  <b>Approved Hours</b> 3-0-1.5  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Mathematical &amp; Statistical Sci  <b>Typically Offered</b> either term or Spring/Summer</p> <p><b>Description</b>  Descriptive data analysis. Calculus of Probability. Binomial, multinomial, Poisson, normal, beta, exponential, gamma, hypergeometric, and Weibull distributions. Sampling distributions. Estimation, testing hypotheses, goodness-of-fit tests, and one-way analysis of variance. Linear correlation and regression. Sampling. Quality control. Use of a microcomputer software package for statistical analyses in engineering applications. Prerequisite: MATH 100. Corequisite: MATH 101. Notes: (1) This course may not be taken for credit if credit has already been obtained in one of STAT 151, <del>161</del>, 222, 265, 266, <del>276, 281</del>; KIN 109, PEDS 109, PSYCH 211, PHER 352, SCI 151 or SOC 210. (2) Intended for Engineering students. Other students who take this course will receive *3.0.</p>

--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. March 3, 2023
--

Approved Mathematical and Statistical Sciences Departmental Council, February 7, 2023
---



## CALENDAR CHANGE REQUEST FORM

**Department: Earth and Atmospheric Sciences**

Highlight type of change request below:

1. **Course Change** (new course, change to existing course, course deletion)      2. **Editorial Change** (basic editing)      3. **Admission Requirement**      4. **Program Change**

<b>CURRENT</b> <small>Enter the Calendar URL here</small>	<b>PROPOSED</b>
<p><del>Strike through and highlight</del> deletions</p> <p><b>EAS 234 - Geology Field School</b> Course Career Undergraduate Units 3 Approved Hours 12 DAYS Fee index 6 Faculty Science Department Earth &amp; Atmospheric Sci Typically Offered <b>second</b> term</p> <p>Geological field studies with emphasis on properties of sedimentary rocks, paleontology, stratigraphy, Quaternary geology, structural mapping, and Cordilleran tectonics. Field exercises teach the fundamentals of recording field data, reconstructing depositional environments, and tectonic interpretation. <del>This field school takes place immediately following the Winter examination period.</del> Requires payment of additional student instructional support fees. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Enrolment is restricted to <del>honours and specialization</del> students in Geology, Environmental Earth Sciences and Paleontology. Prerequisites: EAS 233, and one of EAS 222, 235 or 236. Cannot be taken if credit has already been received for EAS 237. [Faculty of Science]</p>	<p><u>Underline and highlight</u> additions</p> <p><b>EAS 234 - Geology Field School</b> Course Career Undergraduate Units 3 Approved Hours 12 DAYS Fee index 6 Faculty Science Department Earth &amp; Atmospheric Sci Typically Offered <b>first or second</b> term</p> <p>Geological field studies with emphasis on properties of sedimentary rocks, paleontology, stratigraphy, Quaternary geology, structural mapping, and Cordilleran tectonics. Field exercises teach the fundamentals of recording field data, reconstructing depositional environments, and tectonic interpretation. Requires payment of additional student instructional support fees. Refer to the Tuition and Fees page in the University Regulations section of the Calendar. Enrolment is restricted to students in Geology, Environmental Earth Sciences and Paleontology <b>programs</b>. Prerequisites: EAS 233, and one of EAS 222, 235 or 236. Cannot be taken if credit has already been received for EAS 237. [Faculty of Science]</p>

**Rationale for change:** (Not required for course deletion or editorial changes)

(Include documentation that other departments or Faculties offering similar courses support this proposal. In the case of substantial program changes you must also include evidence of consultation with students.)

**Needed to provide flexibility for time of offering.**

<b>Department Contact</b> Name: Mellisa Dhillon	<b>Department Chair or Designate</b> Name: Murray Gingras	<b>Date approved by Dept Council:</b>
Email: dhillon2@ualberta.ca		<b>Dec. 14, 2022</b>

Upload this form to the FoS Calendar Google Site.

Include one form for each grouping of changes. ie, all course changes can go in one document if they were approved at the same department council.

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Earth and Atmospheric Sciences
Contact Person:	Dr. Murray Gingras, Associate Chair for Undergraduate Studies
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>• <b>Undergraduate</b></li> <li>• Graduate</li> </ul>
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This course provides students with the foundational skills necessary to quality control and manipulate datasets of virtually any size to interpret and leverage observations to produce insights. The aim is to enable EAS students to use the R programming language and its statistical capabilities to enhance their research projects. A combination of computational theory, basic statistics, spatial data analysis, data visualization, data science techniques, machine learning methods and more complex tasks will allow the students to evaluate their research data, laboratory analysis results, modeling results, or any raw data as a part of their projects. Any advanced EAS student can benefit from this course, regardless of their field of study or their research subject. The course is intended to complement existing research work by allowing students to use their own data in their final project.

## Course Template

Current:	Proposed:
<p><b>NEW COURSE</b></p>	<p><b>Subject &amp; Number</b> EAS 405  <b>Title</b> Geoscience Data Analysis  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Earth and Atmospheric Sciences  <b>Typically Offered</b> Either term</p> <p><b>Description</b> Quality control and manipulation of Geoscience datasets for analysis and interpretation. Computational theory, programming techniques, basic statistics, uncertainty, spatial data analysis, data</p>

	<p>visualization, data science techniques, and machine learning methods. Prerequisite: Any 300-level EAS course, EAS 221, and a 100-level MATH or STAT course, or permission of instructor. [Faculty of Science]</p>
--	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council December 14, 2022. Approved by Science Undergraduate Programs Committee on November 29, 2023</p>
---

<p>OPTIONAL:</p>
------------------

# Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Earth and Atmospheric Sciences
Contact Person:	Dr. Murray Gingras, Associate Chair for Undergraduate Studies
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>• <b>Undergraduate</b></li> <li>• Graduate</li> </ul>
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

To increase accessibility to undergraduate research opportunities.

## Course Template

Current:	Proposed:
<p><b>Subject &amp; Number</b> EAS 426  <b>Title</b> Undergraduate Thesis  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Earth and Atmospheric Sciences  <b>Typically Offered</b> Either term</p> <p><del>Required for Honors students in their final year. Restricted to honors and specialization students in EAS. Prerequisite: Any 300-level EAS course. [Faculty of Science]</del></p>	<p><b>Subject &amp; Number</b> EAS 426  <b>Title</b> Undergraduate Thesis  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Earth and Atmospheric Sciences  <b>Typically Offered</b> Either term</p> <p>A thesis reporting a supervised research project undertaken by the student. Permission of Instructor required. Prerequisite: Any 300-level EAS course. [Faculty of Science]</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council February 15, 2021. Approved by Science Undergraduate Programs Committee on November 29, 2023
OPTIONAL:

# Calendar Change Request Form for Course Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Earth and Atmospheric Sciences
Contact Person:	Dr. Murray Gingras, Associate Chair for Undergraduate Studies
Level of change: (choose one only) [?]	<ul style="list-style-type: none"> <li>• <b>Undergraduate</b></li> <li>• Graduate</li> </ul>
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Prerequisite change to allow more students to take EAS 465, and to provide better access to students in Paleontology Specialization (Major).

## Course Template

Current:	Proposed:
<p><b>Subject &amp; Number</b> EAS 465  <b>Title</b> Sedimentology  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Earth and Atmospheric Sciences  <b>Typically Offered</b> Either term</p> <p>The science of sedimentary rocks, focusing on the interpretation of sedimentary strata. Topics vary: visit the Earth and Atmospheric Sciences course listing website for details. May be taken more than once for credit provided no topic is repeated. Topics include: (1) Carbonate Sedimentology and Diagenesis; (2) Clastic Sedimentology. Prerequisite: EAS <b>336</b>.</p>	<p><b>Subject &amp; Number</b> EAS 465  <b>Title</b> Sedimentology  <b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Earth and Atmospheric Sciences  <b>Typically Offered</b> Either term</p> <p>The science of sedimentary rocks, focusing on the interpretation of sedimentary strata. Topics vary: visit the Earth and Atmospheric Sciences course listing website for details. May be taken more than once for credit provided no topic is repeated. Topics include: (1) Carbonate Sedimentology and Diagenesis; (2) Clastic Sedimentology. Prerequisite: EAS <b>222</b>.</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council November 15, 2022.  
 Approved by Science Undergraduate Programs Committee on November 29, 2023

OPTIONAL:

Faculty (& Department or Academic Unit):	Faculty of Science
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This change pertains to admission to an undergraduate program offered by the Faculty of Science via the completion of the Transition Year Program for Indigenous students. The current copy refers to the BSc General program, which has been suspended following BSc Renewal. We need to refer to the new Bachelor of Science (Major and Honors) instead.

The course lists have been updated to reflect the breadth requirements of the new Bachelor of Science (Major and Honors) program.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12223#admission-of-indigenous-applicants">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12223#admission-of-indigenous-applicants</a>	
Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<b>General Undergraduate Admission Requirements</b> . . .	<b>General Undergraduate Admission Requirements</b> . . .

## Admission of Indigenous Applicants

### General Statement

.  
.
   
.

### \*Definition of Indigenous People for the Purpose of Admission

.  
.
   
.

### Transition Year Program for Indigenous Applicants

.  
.
   
.

#### 1. Admission to a Transition Year Program

.  
.
   
.

#### 2. Completion of a Transition Year Program

- a. **General Requirements:** Students must normally complete the required courses in Fall/Winter and Spring terms. These courses will be taken through Open Studies.  
**Note:** A limited number of places are available in the required courses.
- b. **Faculty Requirements:** The specific course and performance requirements to be considered for admission to each degree program follow:

1. Agricultural, Life and Environmental Sciences: BSc

...

## Admission of Indigenous Applicants

### General Statement

.  
.
   
.

### \*Definition of Indigenous People for the Purpose of Admission

.  
.
   
.

### Transition Year Program for Indigenous Applicants

.  
.
   
.

#### 1. Admission to a Transition Year Program

.  
.
   
.

#### 2. Completion of a Transition Year Program

- a. **General Requirements:** Students must normally complete the required courses in Fall/Winter and Spring terms. These courses will be taken through Open Studies.  
**Note:** A limited number of places are available in the required courses.
- b. **Faculty Requirements:** The specific course and performance requirements to be considered for admission to each degree program follow:

1. Agricultural, Life and Environmental Sciences: BSc

...

<p>2. Arts: BA</p> <p>...</p> <p>3. Business: BCom</p> <p>...</p> <p>4. Education</p> <p>...</p> <p>5. Engineering: BSc</p> <p>...</p> <p>6. Kinesiology, Sport, and Recreation</p> <p>...</p> <p>7. Native Studies</p> <p>...</p> <p>8. Nursing: BScN</p> <p>...</p> <p>9. Science:  <u>BSc (General)</u></p> <p><i>Course requirement:</i> 15 units of course weight, as follows:</p> <p>i. <u>6 units in junior ENGL or 3 units in junior ENGL and 3 units in junior WRS</u></p> <p>ii. <u>3 units from among junior courses offered by the Department of Mathematical and Statistical Sciences: <a href="#">MATH 114</a>, <a href="#">MATH 115</a>, <a href="#">MATH 125</a>, <a href="#">MATH 134</a>, <a href="#">MATH 136</a>, <a href="#">MATH 144</a>, <a href="#">MATH 146</a>, <a href="#">MATH 154</a>, <a href="#">MATH 156</a>, <a href="#">STAT 151</a></u></p> <p>iii. <u>6 units from among these junior courses: <a href="#">ASTRO 120</a> OR <a href="#">ASTRO 122</a>, <a href="#">CHEM 101</a>, <a href="#">CHEM 102</a>, <a href="#">CHEM 164</a>, <a href="#">PHYS 114</a>, <a href="#">PHYS 124</a>, <a href="#">PHYS 126</a>, <a href="#">PHYS 144</a>, <a href="#">PHYS 146</a>, <a href="#">BIOL 107</a>, <a href="#">BIOL 108</a>, <a href="#">EAS 100</a>, <a href="#">EAS 105</a>, <a href="#">PSYCH 104</a>,</u></p>	<p>2. Arts: BA</p> <p>...</p> <p>3. Business: BCom</p> <p>...</p> <p>4. Education</p> <p>...</p> <p>5. Engineering: BSc</p> <p>...</p> <p>6. Kinesiology, Sport, and Recreation</p> <p>...</p> <p>7. Native Studies</p> <p>...</p> <p>8. Nursing: BScN</p> <p>...</p> <p>9. Science:  <u>Bachelor of Science (Major)</u></p> <p><i>Course requirement:</i> 15 units of course weight, as follows:</p> <p>i. <u>6 units in English (ENGL) or Writing Studies (WRS)</u></p> <p>ii. <u>9 units, with at least 3 units from each of the following categories:</u></p> <ul style="list-style-type: none"> <li>• <u>Basic Sciences (i.e., common high school course offerings)</u></li> <li>• <u>Formal Sciences (i.e., primarily numerical in nature or based in logic)</u></li> <li>• <u>Specialized Sciences (i.e., uncommon high school course offerings)</u></li> </ul> <p><u>See the <a href="#">Breadth from Within the Faculty of Science Course Lists for Bachelor of Science (Major)</a></u></p>
---	--



<p><u><del>CMPUT 101 OR CMPUT 174 OR</del></u> <u>CMPUT 175</u></p> <p><i>Performance requirement:</i> Minimum GPA of 2.0 on all credit attempted including <a href="#">UNIV 101</a> and <a href="#">UNIV 102</a>.</p> <p><b>Note:</b> In order to qualify as a full-time student, an additional 3 units of course weight must be chosen with approval of the TYP Coordinator.</p> <p><b>Nonmatriculated Applicants</b></p> <p>.</p> <p>.</p> <p>.</p>	<p><u>and Honors</u>) for eligible courses in each of the above categories.</p> <p><i>Performance requirement:</i> Minimum GPA of 2.0 on all credit attempted including <a href="#">UNIV 101</a> and <a href="#">UNIV 102</a>.</p> <p><b>Note:</b> In order to qualify as a full-time student, an additional 3 units of course weight must be chosen with approval of the TYP Coordinator.</p> <p><b>Nonmatriculated Applicants</b></p> <p>.</p> <p>.</p> <p>.</p>
--	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <p>Reviewed by Associate Director TYP program (email November 2023)</p>

Faculty (& Department or Academic Unit):	Faculty of Science
Contact Person:	Gerda de Vries, Associate Dean, Undergraduate Jocelyn Hall, Associate Dean, Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

We need to remove the note since it is too vague and is redundant. The list of courses on this page are courses that fulfill the Lab/Field Experience requirement that is part of the Bachelor of Science (Major and Honors) program. The requirement is to successfully complete a minimum of 3 units in a Science course that includes substantial and meaningful lab or field experience, where students are required to engage in the analysis and interpretation of authentic data or observations that reflect the uncertain nature of science. The intent of this requirement is for students to complete a hands-on, experimental skill-building experience. This would exclude Science courses such as CMPUT with a scheduled lab component that focus on computational skill-building. The only other Science courses that are left are courses that have as a prerequisite one of the courses already on the list. Removing the note will avoid inquiries from students who may be hesitant about taking one of the courses on the list and wonder which courses could potentially be used as a substitute.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50422">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50422</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language

## Lab/Field Experience Course List for Bachelor of Science (Major and Honors)

### Course List:

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry  
|
- EAS 100 - Planet Earth
- EAS 105 - The Dynamic Earth Through Time
- PHYS 124 - Particles and Waves
- PHYS 144 - Newtonian Mechanics and  
Relativity

### Notes:

1. Science courses at the 200 level or higher with a scheduled lab component may also satisfy this requirement; students must consult an Academic Advisor for an approved course substitution.

## Lab/Field Experience Course List for Bachelor of Science (Major and Honors)

### Course List:

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry  
|
- EAS 100 - Planet Earth
- EAS 105 - The Dynamic Earth Through Time
- PHYS 124 - Particles and Waves
- PHYS 144 - Newtonian Mechanics and  
Relativity

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Science (Physics)
Contact Person:	Erik Rosolowsky
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Physics Department has established a differential equations course that is part of the Physics programs and provides the necessary prerequisite content that is also provided by MATH 337. We request to add this as a suitable prerequisite for our 400-level courses that currently accept MATH 337.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number:</b> PHYS 415</p> <p><b>Title:</b> Introduction to Condensed Matter Physics I</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Lattice structure and binding; lattice vibrations; electrons in solids, band structure of metals, Fermi surface; semiconductors and junctions; paramagnetism and diamagnetism; introduction to lattice defects. Prerequisites: PHYS 311 and 372, and MATH 337 or ECE 341 or equivalent.</p>	<p><b>Subject &amp; Number:</b> PHYS 415</p> <p><b>Title:</b> Introduction to Condensed Matter Physics I</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Lattice structure and binding; lattice vibrations; electrons in solids, band structure of metals, Fermi surface; semiconductors and junctions; paramagnetism and diamagnetism; introduction to lattice defects. Prerequisites: PHYS 311 and 372, and <b>MA PH 251</b> or MATH 337 or ECE 341 or equivalent.</p>
<p><b>Subject &amp; Number:</b> PHYS 420</p> <p><b>Title:</b> Computational Physics</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-3  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p>	<p><b>Subject &amp; Number:</b> PHYS 420</p> <p><b>Title:</b> Computational Physics</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-3  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p>

<p><b>Description:</b> Basic principles; computational methods selected from finite-differences, matrix manipulation, variational techniques, discrete transforms, stochastic methods, lattice techniques; as applied to topics selected from nonlinear mechanics, chaotic systems; electrodynamics; wave propagation; statistical physics; quantum mechanics; condensed matter. Prerequisites: PHYS 234, 244, PHYS 381, MATH 337 or ECE 341 or equivalent. Recommended pre- or corequisites: MA PH 343, PHYS 311, PHYS 372, PHYS 472, and PHYS 481. Familiarity with a programming language strongly recommended.</p>	<p><b>Description:</b> Basic principles; computational methods selected from finite-differences, matrix manipulation, variational techniques, discrete transforms, stochastic methods, lattice techniques; as applied to topics selected from nonlinear mechanics, chaotic systems; electrodynamics; wave propagation; statistical physics; quantum mechanics; condensed matter. Prerequisites: PHYS 234, 244, PHYS 381, <b>MA PH 251 or</b> MATH 337 or ECE 341 or equivalent. Recommended pre- or corequisites: MA PH 343, PHYS 311, PHYS 372, PHYS 472, and PHYS 481. Familiarity with a programming language strongly recommended.</p>
<p><b>Subject &amp; Number:</b> PHYS 458</p> <p><b>Title:</b> Special and General Relativity</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Special Relativity: space-time; Lorentz transformations; definitions of scalars, vectors and tensors; motion of a relativistic particle; energymomentum tensor and equations of motion; transformation of electromagnetic fields. General Relativity: geometry of curved space-time; equivalence principle; gravity as curvature; Einstein equations; black hole and cosmological solutions; gravitational waves. Prerequisites: MATH 337 or ECE 341, PHYS 244. Corequisite: PHYS 481.</p>	<p><b>Subject &amp; Number:</b> PHYS 458</p> <p><b>Title:</b> Special and General Relativity</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Special Relativity: space-time; Lorentz transformations; definitions of scalars, vectors and tensors; motion of a relativistic particle; energy momentum tensor and equations of motion; transformation of electromagnetic fields. General Relativity: geometry of curved space-time; equivalence principle; gravity as curvature; Einstein equations; black hole and cosmological solutions; gravitational waves. Prerequisites: <b>MA PH 251 or</b> MATH 337 or ECE 341, PHYS 244. Corequisite: PHYS 481.</p>
<p><b>Subject &amp; Number:</b> PHYS 467</p> <p><b>Title:</b> Fundamentals of Continuum Mechanics</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Cartesian tensors; stress; strain and deformation; Eulerian and Lagrangian descriptions of motions; conservation principles, Cauchy's equation of motion; constitutive relations, elasticity, plasticity, linear</p>	<p><b>Subject &amp; Number:</b> PHYS 467</p> <p><b>Title:</b> Fundamentals of Continuum Mechanics</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Cartesian tensors; stress; strain and deformation; Eulerian and Lagrangian descriptions of motions; conservation principles, Cauchy's equation of motion; constitutive relations, elasticity, plasticity, linear</p>

<p>and nonlinear viscous fluid flow; elastic wave equation and Navier-Stokes equation; similarity, scaling and nondimensionalisation of governing equations. Applications from geophysics, materials science, oceanography, and atmospheric physics. Pre- or corequisites: MATH 337 or ECE 341, PHYS 381.</p>	<p>and nonlinear viscous fluid flow; elastic wave equation and Navier-Stokes equation; similarity, scaling and nondimensionalisation of governing equations. Applications from geophysics, materials science, oceanography, and atmospheric physics. Pre- or corequisites: <b>MA PH 251</b> or MATH 337 or ECE 341, PHYS 381.</p>
<p><b>Subject &amp; Number:</b> PHYS 472</p> <p><b>Title:</b> Quantum Mechanics B</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Review of the postulates of quantum mechanics; quantization of angular momentum; matrix representations, spin and parity; approximation methods; perturbation theory; variational and other methods; applications; scattering theory; systems of identical particles. Prerequisites: PHYS 372, and MATH 337 or ECE 341 or equivalent, and MATH 311 or 411 or MA PH 251.</p>	<p><b>Subject &amp; Number:</b> PHYS 472</p> <p><b>Title:</b> Quantum Mechanics B</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Review of the postulates of quantum mechanics; quantization of angular momentum; matrix representations, spin and parity; approximation methods; perturbation theory; variational and other methods; applications; scattering theory; systems of identical particles. Prerequisites: PHYS 372, and <b>MA PH 251</b> or MATH 337 or ECE 341 or equivalent, and MATH 311 or 411 or MA PH 251.</p>
<p><b>Subject &amp; Number:</b> PHYS 481</p> <p><b>Title:</b> Electromagnetic Theory II</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b>Electromotive force; Faraday's law; inductance; Maxwell's equations in free space and in matter; electromagnetic potentials; gauges; energy and momentum conservation laws; plane waves in vacuum, in nonconducting and in conducting media; reflection and refraction of electromagnetic waves; dispersion, wave guides; dipole radiation; radiation due to moving charge; radiation reaction. Prerequisite: PHYS 381, MATH 337 or ECE 341 or equivalent.</p>	<p><b>Subject &amp; Number:</b> PHYS 481</p> <p><b>Title:</b> Electromagnetic Theory II</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b>Electromotive force; Faraday's law; inductance; Maxwell's equations in free space and in matter; electromagnetic potentials; gauges; energy and momentum conservation laws; plane waves in vacuum, in nonconducting and in conducting media; reflection and refraction of electromagnetic waves; dispersion, wave guides; dipole radiation; radiation due to moving charge; radiation reaction. Prerequisite: PHYS 381, <b>and MA PH 251</b> or MATH 337 or ECE 341 or equivalent.</p>

<p><b>Subject &amp; Number:</b> PHYS 485</p> <p><b>Title:</b> Introductory Particle Physics</p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-0-0</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Physics</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description:</b> Particles and forces; relativistic kinematics; symmetries and conservation laws; bound states, heavy flavours, and the quark model; Dirac equation and the electrodynamics of leptons; electrodynamics of quarks and the parton model; quantum chromodynamics and the strong interactions; weak interactions and electroweak unification. Prerequisites: PHYS 372; MATH 225 or 227; MATH 337 or equivalent. Recommended: PHYS 458 and PHYS 472.</p>	<p><b>Subject &amp; Number:</b> PHYS 485</p> <p><b>Title:</b> Introductory Particle Physics</p> <p><b>Course Career:</b> Undergraduate</p> <p><b>Units:</b> 3</p> <p><b>Approved Hours:</b> 3-0-0</p> <p><b>Fee index:</b> 6</p> <p><b>Faculty:</b> Science</p> <p><b>Department:</b> Physics</p> <p><b>Typically Offered:</b> either term</p> <p><b>Description:</b> Particles and forces; relativistic kinematics; symmetries and conservation laws; bound states, heavy flavours, and the quark model; Dirac equation and the electrodynamics of leptons; electrodynamics of quarks and the parton model; quantum chromodynamics and the strong interactions; weak interactions and electroweak unification. Prerequisites: PHYS 372; MATH 225 or 227; MA PH 251 or MATH 337 or equivalent. Recommended: PHYS 458 and PHYS 472.</p>
---	--

**Reviewed/Approved by:**

<p>REQUIRED: Physics Dept. Council (Nov. 9, 2023); Faculty of Science Undergraduate Program Committee (November 24, 2023)</p>
<p>OPTIONAL:</p>

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Mathematical and Statistical Sciences
Contact Person:	Nicolas Guay, Associate Chair
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

MATH 215 has been replaced in our curriculum by MATH 315 and a student who has completed successfully MATH 315 has studied the mathematical content of MATH 209.

## Course Template

Current:	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> MATH 209</p> <p><b>Title</b> Calculus for Engineering III</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> ★ 3</p> <p><b>Approved Hours</b> 3-0-1</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Faculty of Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> First term</p> <p><b>Description</b> Partial differentiation, derivatives of integrals. Multiple integration using rectangular, cylindrical, and spherical coordinates. Vector Field Theory. Prerequisite: MATH 101. Prerequisite or corequisite: MATH 102. Notes: (1) This course may not be taken for credit if credit has already been obtained in MATH 215 <b>or 317</b>. (2) Students in all sections of this course will write a common final examination. (3) Restricted to Engineering students. Non-Engineering students who take this course will receive 3 units.</p>	<p><b>Subject &amp; Number</b> MATH 209</p> <p><b>Title</b> Calculus for Engineering III</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-1</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Faculty of Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> First term</p> <p><b>Description</b> Partial differentiation, derivatives of integrals. Multiple integration using rectangular, cylindrical, and spherical coordinates. Vector Field Theory. Prerequisite: MATH 101. Prerequisite or corequisite: MATH 102. Notes: (1) This course may not be taken for credit if credit has already been obtained in MATH 215, <b>MATH 315, MATH 317 or MA PH 351</b>. (2) Students in all sections of this course will write a common final examination. (3) Restricted to Engineering students. Non-Engineering students who take this course will receive 3 units.</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.



OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.  
Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.

Faculty (& Department or Academic Unit):	Science (Physics)
Contact Person:	Erik Rosolowsky
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Department of Mathematical and Statistical Science has renumbered MATH 215 to MATH 315. This change revises that course prerequisite.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number:</b> BIOPH 401</p> <p><b>Title:</b> Advanced Biophysics</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 3 <b>Approved Hours:</b> 3-0-0 <b>Fee index:</b> 6 <b>Faculty:</b> Science <b>Department:</b> Physics <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Physical properties of biological macromolecules and macromolecular assemblies; biopolymer folding; ligand binding and allostery; lipid membranes; cellular electricity and nerve conduction; models of molecular motors; stochasticity in biology; numerical and experimental techniques in biophysics; synthetic biology. Prerequisites: MATH 209/<del>215</del>/317 or MA PH 351, MATH 201/334/336 or MA PH 251, BIOPH 201, PHYS 234, PHYS 230/281, PHYS 310.</p>	<p><b>Subject &amp; Number:</b> BIOPH 401</p> <p><b>Title:</b> Advanced Biophysics</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 3 <b>Approved Hours:</b> 3-0-0 <b>Fee index:</b> 6 <b>Faculty:</b> Science <b>Department:</b> Physics <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Physical properties of biological macromolecules and macromolecular assemblies; biopolymer folding; ligand binding and allostery; lipid membranes; cellular electricity and nerve conduction; models of molecular motors; stochasticity in biology; numerical and experimental techniques in biophysics; synthetic biology. Prerequisites: MATH 209 or 215 or 315 or 317 or MA PH 351, MATH 201/334/336 or MA PH 251, BIOPH 201, PHYS 234, PHYS 230/281, PHYS 310.</p>
<p><b>Subject &amp; Number:</b> GEOPH 421</p> <p><b>Title:</b> Seismology and the Physical Structure of the Earth</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 3 <b>Approved Hours:</b> 3-0-0 <b>Fee index:</b> 6 <b>Faculty:</b> Science</p>	<p><b>Subject &amp; Number:</b> GEOPH 421</p> <p><b>Title:</b> Seismology and the Physical Structure of the Earth</p> <p><b>Course Career:</b> Undergraduate <b>Units:</b> 3 <b>Approved Hours:</b> 3-0-0 <b>Fee index:</b> 6 <b>Faculty:</b> Science</p>

<p><b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Seismology and earthquakes; travel-time, amplitude, and waveform computations; body and surface waves; normal modes and free oscillations; source mechanisms; Earth's structure from inversion of teleseismic observations; seismometers; earthquake hazards and risks. Pre or corequisite: MATH 215 or 209 or 317, and any 300-level GEOPH course. Note: Credit may be obtained for only one of GEOPH 421 and GEOPH 541.</p>	<p><b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Seismology and earthquakes; travel-time, amplitude, and waveform computations; body and surface waves; normal modes and free oscillations; source mechanisms; Earth's structure from inversion of teleseismic observations; seismometers; earthquake hazards and risks. Pre or corequisite: MATH 215 or 209 or 315 or 317, and any 300-level GEOPH course. Note: Credit may be obtained for only one of GEOPH 421 and GEOPH 541.</p>
<p><b>Subject &amp; Number:</b> MA PH 343</p> <p><b>Title:</b> Classical Mechanics II</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Principles of mechanics; non-inertial frames; Lagrange's equations and Hamilton's principle; dynamics of oscillating systems; rigid body kinematics and dynamics; Hamiltonian methods and canonical transformations. Prerequisite: PHYS 244 and one of MA PH 351, MATH 215 or MATH 317.</p>	<p><b>Subject &amp; Number:</b> MA PH 343</p> <p><b>Title:</b> Classical Mechanics II</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Principles of mechanics; non-inertial frames; Lagrange's equations and Hamilton's principle; dynamics of oscillating systems; rigid body kinematics and dynamics; Hamiltonian methods and canonical transformations. Prerequisite: PHYS 244 and one of MA PH 351, MATH 215 or 315 or MATH 317.</p>
<p><b>Subject &amp; Number:</b> PHYS 311</p> <p><b>Title:</b> Statistical Physics</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Quantum states, probability distributions, temperature and entropy; canonical ensemble and the partition function; ideal gases, paramagnets; blackbody radiation. Debye model for phonons; quantum statistics; Fermi-Dirac distribution and electrons in metals; Bose-Einstein distribution. Prerequisites: PHYS 310 (or CH E 243 for Engineering Physics Program students), PHYS 271 and MATH 209 or 215 or 317 or MA PH 351</p>	<p><b>Subject &amp; Number:</b> PHYS 311</p> <p><b>Title:</b> Statistical Physics</p> <p><b>Course Career:</b> Undergraduate  <b>Units:</b> 3  <b>Approved Hours:</b> 3-0-0  <b>Fee index:</b> 6  <b>Faculty:</b> Science  <b>Department:</b> Physics  <b>Typically Offered:</b> either term</p> <p><b>Description:</b> Quantum states, probability distributions, temperature and entropy; canonical ensemble and the partition function; ideal gases, paramagnets; blackbody radiation. Debye model for phonons; quantum statistics; Fermi-Dirac distribution and electrons in metals; Bose-Einstein distribution. Prerequisites: PHYS 310 (or CH E 243 for Engineering Physics Program students), PHYS 271 and MATH 209 or 215 or 315 or 317 or MA PH</p>

equivalent.	351 equivalent.
-------------	-----------------

**Reviewed/Approved by:**

REQUIRED: Physics Dept. Council (Nov. 9, 2023); Faculty of Science Undergraduate Program Committee (November 24, 2023)
OPTIONAL:

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Mathematical and Statistical Sciences
Contact Person:	Nicolas Guay, Associate Chair
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

MATH 215 (or an equivalent course) was an important prerequisite for MATH 337, in particular since Green and Stokes Theorems are used to solve certain eigenvalue problems in the latter course, but it has been replaced by MATH 315.. Noting that Green and Stokes Theorems are not covered in the MATH 214, the current MATH 215 prerequisite needs to be replaced by MATH 315. For students in Physics, MA PH 351 is an appropriate prerequisite for MATH 337.

## Course Template

Current: <span style="background-color: yellow;">Removed language</span>	Proposed: <span style="background-color: yellow;">New language</span>
<p><b>Subject &amp; Number</b> MATH 337</p> <p><b>Title</b> Introduction to Partial Differential Equations</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> ★ 3</p> <p><b>Approved Hours</b> 3-0-0</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Faculty of Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> Either term</p> <p><b>Description</b> Boundary value problems of classical Math Physics, orthogonal expansions, classical special functions. Advanced transform techniques. Prerequisites: One of <span style="background-color: yellow;">MATH 209, 215, or 217</span>, and one of MATH 201, MATH 334, MATH 336, or MA PH 251. Notes: (1) Credit can be obtained in at most one of MATH 300 or 337. (2) Course cannot be taken for credit if credit has been obtained in ECE 341.</p>	<p><b>Subject &amp; Number</b> MATH 337</p> <p><b>Title</b> Introduction to Partial Differential Equations</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-0</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Faculty of Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> Either term</p> <p><b>Description</b> Boundary value problems of classical Math Physics, orthogonal expansions, classical special functions. Advanced transform techniques. Prerequisites: One of <span style="background-color: yellow;">MATH 209, 215, 217, 315 or MA PH 351</span>, and one of MATH 201, MATH 334, MATH 336, or MA PH 251. Notes: (1) Credit can be obtained in at most one of MATH 300 or 337. (2) Course cannot be taken for credit if credit has been obtained in ECE 341.</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Mathematical and Statistical Sciences
Contact Person:	Nicolas Guay, Associate Chair
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

MATH 215 has been replaced in our curriculum by MATH 315, so the prerequisite for MATH 348 needs to be updated.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>Subject &amp; Number</b> MATH 348</p> <p><b>Title</b> Differential Geometry of Curves and Surfaces</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> ★ 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Faculty of Science  <b>Department</b> Mathematical and Statistical Sciences  <b>Typically Offered</b> First term</p> <p><b>Description</b> Frenet-Serret theory of curves in the plane and in 3-space, examples; local theory of surfaces in 3-space: first and second fundamental forms, Gauss map and Gauss curvature, geodesics and parallel transport, theorema egregium, mean curvature and minimal surfaces. Prerequisites: One of MATH 102, 125 or 127 and one of <b>MATH 209, 215 or 217</b>.</p>	<p><b>Subject &amp; Number</b> MATH 348</p> <p><b>Title</b> Differential Geometry of Curves and Surfaces</p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Faculty of Science  <b>Department</b> Mathematical and Statistical Sciences  <b>Typically Offered</b> First term</p> <p><b>Description</b> Frenet-Serret theory of curves in the plane and in 3-space, examples; local theory of surfaces in 3-space: first and second fundamental forms, Gauss map and Gauss curvature, geodesics and parallel transport, theorema egregium, mean curvature and minimal surfaces. Prerequisites: One of MATH 102, 125 or 127 and one of <b>MATH 209, 215, 217, 315 or MA PH 351</b>.</p>

## Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates. Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Mathematical and Statistical Sciences
Contact Person:	Nicolas Guay, Associate Chair
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Very low enrolment in our graduate courses is a problem every year. Some of the core courses in our Ph.D. programs have been cross-listed with 400-level undergraduate courses to alleviate that problem: MATH 417/514, MATH 418/516, MATH 429/581 and MATH 428/582. Other courses are sometimes initially scheduled in the spring when teaching assignments are made only to be canceled later due to very low enrolment. This is upsetting for the students and the instructors assigned to teach those courses. The present proposal is to create a new undergraduate course, MATH 483, that would be cross-listed with a new graduate course, MATH 583, in the hope to help alleviate the problem of low enrollment.

The title for the proposed new course is Topics in Algebra. This is the same title as MATH 681 and MATH 682. The goal is to replace these partially and to replace entirely MATH 412/512 (Algebraic Number Theory) and MATH 530 (Algebraic Topology), while acknowledging that there are two different types of topics courses: some require less background and are accessible to talented advanced undergraduate students while others require a graduate course like MATH 581 or MATH 582 as a prerequisite. In the future, the hope is to be able to offer every year either MATH 581, MATH 582 and MATH 483/583 twice, or MATH 581, MATH 582, MATH 483/583 once and MATH 681 once. MATH 412/512, MATH 530 and MATH 682 will not be scheduled in the future and will eventually be removed from the course catalogue.

## Course Template

<b>Current:</b>	<b>Proposed:</b> New course
-----------------	-----------------------------



	<p><b>Subject &amp; Number</b> MATH 483</p> <p><b>Title</b> Topics in Algebra</p> <p><b>Course Career</b> Undergraduate</p> <p><b>Units</b> 3 units</p> <p><b>Approved Hours</b> 3-0-0</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Faculty of Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> Either term</p> <p><b>Description</b> This course will cover advanced algebraic topics not taught in regular courses in the curriculum or will provide a more in-depth continuation of an existing course. Prerequisite: at least one of MATH 326, MATH 327, MATH 328, MATH 329, or equivalent. Note: Upon approval by the Department of Mathematical and Statistical Sciences, this course may be taken for credit multiple times.</p>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.

Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences Department of Computing Science
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate Corwin Sullivan, Associate Chair, Department of Biological Sciences
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Bioinformatics minor as it exists in the BSc General program (suspended effective Fall 2024) is available only to students who have either a major in Computing Science or a major in Biological Sciences. There are two versions of this minor, depending on the major it is attached to. The requirements of the two versions ensure that the complete set of introductory BIOL and CMPUT courses required for Bioinformatics are taken by all students: students with a major in Biological Sciences take the introductory BIOL courses as part of their major and the introductory CMPUT courses as part of the minor, while students with a major in Computing Science take the introductory CMPUT courses as part of their major and the introductory BIOL courses as part of the minor.

We mistakenly carried the requirements of these two versions of the minor over to the new degree programs (effective Fall 2024), calling them Bioinformatics - Biological Sciences Focus and Bioinformatics - Computing Science Focus. The intent was to make this minor widely available to all students (not just those choosing a major in Computing Science or a major in Biological Sciences). However, neither version ensures that students have the required introductory BIOL and CMPUT courses. These versions thus need to be removed.

We have revised the requirements of the minor so that it can be taken by any student, independent of their choice of major.

As a result of the proposed changes, most exclusions between subject area majors and minors can be removed.

### Calendar Copy

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=50430](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=50430)

Current Copy: ~~Removed language~~

Proposed Copy: **New language**

# Bachelor of Science Bioinformatics Subject Area

# Bachelor of Science Bioinformatics Subject Area

## General Information

## General Information

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Requirements

## Requirements

- ~~• Minor in Bioinformatics – Biological Sciences Focus (24 units)~~
- ~~• Minor in Bioinformatics – Computing Science Focus (24 units)~~

- **Minor in Bioinformatics (27 units)**

## ~~Minor in Bioinformatics – Biological Sciences Focus Requirements~~

## ~~Foundation Courses~~

- ~~• BIOL 107 – Introduction to Cell Biology~~
- ~~• BIOL 108 – Introduction to Biological Diversity~~

## Senior Courses

---

- BIOIN 301 – Bioinformatics I
- BIOIN 401 – Bioinformatics II
- BIOL 207 – Molecular Genetics and Heredity
- GENET 270 – Foundations of Molecular Genetics

## 6 units from:

---

- CMPUT 201 – Practical Programming Methodology
- CMPUT 204 – Algorithms I
- CMPUT 229 – Computer Organization and Architecture I
- CMPUT 272 – Formal Systems and Logic in Computing Science
- CMPUT 291 – Introduction to File and Database Management
- CMPUT 301 – Introduction to Software Engineering
- CMPUT 366 – Search and Planning in Artificial Intelligence
- CMPUT 391 – Database Management Systems
- CMPUT 410 – Web Based Information Systems
- CMPUT 466 – Machine Learning

## Minor in Bioinformatics – Computing Science Focus Requirements

---

## Foundation Courses

---

- CMPUT 174 – Introduction to the Foundations of Computation I
- CMPUT 175 – Introduction to the Foundations of Computation II

## Senior Courses

---

- BIOIN 301 – Bioinformatics I
- BIOIN 401 – Bioinformatics II
- CMPUT 201 – Practical Programming Methodology
- CMPUT 291 – Introduction to File and Database Management
- GENET 270 – Foundations of Molecular Genetics

**3 units from:**

- BIOL 207 – Molecular Genetics and Heredity
- BIOL 221 – Mechanisms of Evolution

**Notes:**

1. CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175 and CMPUT 201.

## Minor in Bioinformatics

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)

**3 units from:**

- CMPUT 191 - Introduction to Data Science
- CMPUT 195 - Introduction to Principles and Techniques of Data Science

### Senior Courses

- BIOL 207 - Molecular Genetics and Heredity
- BIOIN 301 - Bioinformatics I
- BIOIN 401 - Bioinformatics II

**3 units from:**

- AN SC 384 - Principles of Animal Genetics
- BIOL 335 - Principles of Systematics
- BIOL 380 - Genetic Analysis of Populations
- GENET 270 - Foundations of Molecular Genetics
- GENET 364 - Plant Genetics
- GENET 390 - Gene Manipulation
- MICRB 265 - General Microbiology

**3 units from:**

- AN SC 485 - Animal Genetics and Breeding
- BIOL 343 - Techniques for Macromolecular Characterization
- BIOL 391 - Techniques in Molecular Biology and Bioinformatics
- BIOL 392 - Laboratory Techniques in Molecular Ecology and Systematics
- BIOL 421 - Molecular Evolution and Systematics
- BIOL 495 - Special Topics in Biology (if appropriate topic)
- BOT 464 - Plant Functional Genomics
- CELL 425 - Systems Biology
- IMIN 410 - Bioinformatics for Molecular Biologists
- INT D 491 - Data Science Capstone

**Notes:**

1. CMPUT 274 can serve as a substitute for CMPUT 174. CMPUT 275 can serve as a substitute for CMPUT 175.

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poiid=50469&returnto=12349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poiid=50469&returnto=12349)

Current Copy: **Removed language**

Note: Proposed Copy is below [two-column format does not work for the table to which changes need to be made]

# Bachelor of Science (Major and Honors)

## Subject Areas Offered by the Faculty of Science:

	Honors	Major	Minor	Eligible for  Double Major	Minor & Double Major Exceptions
<a href="#">Applied Mathematics</a>	X	X		X	May not be combined with Mathematics (Major or Minor)
<a href="#">Astrophysics</a>	X	X	X	X	May not be combined with Geophysics (Minor), Physics (Honors, Major or Minor)
<a href="#">Biochemistry</a>	X	X	X	X	
<a href="#">Bioinformatics</a> <a href="#">Biological Sciences Focus</a>			X		May not be combined with Biological Sciences (Honors or Major), Cell Biology (Honors or Major), EE&E Biology (Honors or Major), Immunology and Infection (Honors or Major), Integrative Physiology (Honors or Major), MC&D Biology (Honors or Major), Pharmacology (Honors or Major), Physiology (Honors or Major)

<a href="#">Bioinformatics – Computing Science Focus</a>			X		May not be combined with Computing Science (Honors or Major), Computing Science – Artificial Intelligence Option (Honors or Major), Computing Science – Software Practice Option (Honors or Major)
<a href="#">Biological Sciences</a>	X	X	X	X	May not be combined with <del>Bioinformatics – Biological Sciences Focus (Minor)</del> ; EE&E Biology (Honors or Major), Integrative Physiology (Honors or Major), MC&D Biology (Honors or Major)
<a href="#">Cell Biology</a>	X	X	X	X	May not be combined with <del>Bioinformatics – Biological Sciences Focus (Minor)</del>
<a href="#">Chemistry</a>	X	X	X	X	
<a href="#">Climate Dynamics</a>			X		
<a href="#">Computing Science</a>	X	X	X	X	May not be combined with <del>Bioinformatics – Computing Science Focus (Minor)</del>
<a href="#">Computing Science - Artificial Intelligence Option</a>	X	X			May not be combined with <del>Bioinformatics – Computing Science Focus (Minor)</del> ; Computing Science (Minor)
<a href="#">Computing Science - Software Practice Option</a>	X	X			May not be combined with <del>Bioinformatics – Computing Science Focus (Minor)</del> ; Computing Science (Minor)
<a href="#">Earth Sciences</a>	X	X	X	X	May not be combined with Environmental Earth Sciences (Honors or Major), Geology (Honors or Major)



<a href="#">Ecology, Evolution and Environmental Biology (EE&amp;E Biology)</a>	X	X		X	May not be combined with <del>Bioinformatics – Biological Sciences Focus (Minor)</del> ; Biological Sciences (Major or Minor), Integrative Physiology (Major), MC&D Biology (Major)
<a href="#">Environmental Earth Sciences</a>	X	X			May not be combined with Earth Sciences (Minor)
<a href="#">Geology</a>	X	X			May not be combined with Earth Sciences (Minor)
<a href="#">Geophysics</a>	X	X	X		May not be combined with Astrophysics (Honors, Major or Minor), Physics (Honors, Major or Minor)
<a href="#">Immunology and Infection</a>	X	X			May not be combined with <del>Bioinformatics – Biological Sciences Focus (Minor)</del> ; Biological Sciences (Minor)
<a href="#">Integrative Physiology</a>	X	X		X	May not be combined with <del>Bioinformatics – Biological Sciences Focus (Minor)</del> ; Biological Sciences (Major or Minor), EE&E Biology (Major), MC&D Biology (Major)
<a href="#">Mathematical Physics</a>	X	X			May not be combined with Astrophysics (Minor), Geophysics (Minor), Mathematics (Minor), Physics (Minor)
<a href="#">Mathematics</a>	X	X	X	X	May not be combined with Applied Mathematics (Honors or Major)
<a href="#">Mathematics and Economics</a>	X	X			May not be combined with Economics (Minor), Mathematics (Minor)
<a href="#">Mathematics and Finance</a>	X	X			May not be combined with Business (Minor), Mathematics (Minor)

<a href="#">Molecular, Cellular and Developmental Biology (MC&amp;D Biology)</a>	X	X		X	May not be combined with <del>Bioinformatics – Biological Sciences Focus (Minor)</del> , Biological Sciences (Major or Minor), EE&E Biology (Major), Integrative Physiology (Major)
<a href="#">Neuroscience</a>	X	X			
<a href="#">Paleontology</a>	X	X			May not be combined with Biological Sciences (Minor), Earth Sciences (Minor)
<a href="#">Pharmacology</a>	X	X	X	X	<del>May not be combined with Bioinformatics – Biological Sciences Focus (Minor)</del>
<a href="#">Physics</a>	X	X	X	X	May not be combined with Astrophysics (Honors, Major or Minor), Geophysics (Honors, Major or Minor)
<a href="#">Physiology</a>	X	X			<del>May not be combined with Bioinformatics – Biological Sciences Focus (Minor)</del>
<a href="#">Planning</a>	X	X			May not be combined with Human Geography (Minor)
<a href="#">Psychology</a>	X	X	X	X	
<a href="#">Statistics</a>	X	X	X	X	

Proposed Copy: **New language**

Note: Current Copy is above [two-column format does not work for the table to which changes need to be made]

## Bachelor of Science (Major and Honors)

## Subject Areas Offered by the Faculty of Science:

	Honors	Major	Minor	Eligible for  Double Major	Minor & Double Major Exceptions
<a href="#">Applied Mathematics</a>	X	X		X	May not be combined with Mathematics (Major or Minor)
<a href="#">Astrophysics</a>	X	X	X	X	May not be combined with Geophysics (Minor), Physics (Honors, Major or Minor)
<a href="#">Biochemistry</a>	X	X	X	X	
<a href="#">Bioinformatics</a>			X		
<a href="#">Biological Sciences</a>	X	X	X	X	May not be combined with EE&E Biology (Honors or Major), Integrative Physiology (Honors or Major), MC&D Biology (Honors or Major)
<a href="#">Cell Biology</a>	X	X	X	X	
<a href="#">Chemistry</a>	X	X	X	X	
<a href="#">Climate Dynamics</a>			X		
<a href="#">Computing Science</a>	X	X	X	X	

<a href="#">Computing Science - Artificial Intelligence Option</a>	X	X			May not be combined with Computing Science (Minor)
<a href="#">Computing Science - Software Practice Option</a>	X	X			May not be combined with Computing Science (Minor)
<a href="#">Earth Sciences</a>	X	X	X	X	May not be combined with Environmental Earth Sciences (Honors or Major), Geology (Honors or Major)
<a href="#">Ecology, Evolution and Environmental Biology (EE&amp;E Biology)</a>	X	X		X	May not be combined with Biological Sciences (Major or Minor), Integrative Physiology (Major), MC&D Biology (Major)
<a href="#">Environmental Earth Sciences</a>	X	X			May not be combined with Earth Sciences (Minor)
<a href="#">Geology</a>	X	X			May not be combined with Earth Sciences (Minor)
<a href="#">Geophysics</a>	X	X	X		May not be combined with Astrophysics (Honors, Major or Minor), Physics (Honors, Major or Minor)
<a href="#">Immunology and Infection</a>	X	X			May not be combined with Biological Sciences (Minor)
<a href="#">Integrative Physiology</a>	X	X		X	May not be combined with Biological Sciences (Major or Minor), EE&E Biology (Major), MC&D Biology (Major)

**Calendar Change Request Form** for Program and Regulation Changes

<a href="#">Mathematical Physics</a>	X	X			May not be combined with Astrophysics (Minor), Geophysics (Minor), Mathematics (Minor), Physics (Minor)
<a href="#">Mathematics</a>	X	X	X	X	May not be combined with Applied Mathematics (Honors or Major)
<a href="#">Mathematics and Economics</a>	X	X			May not be combined with Economics (Minor), Mathematics (Minor)
<a href="#">Mathematics and Finance</a>	X	X			May not be combined with Business (Minor), Mathematics (Minor)
<a href="#">Molecular, Cellular and Developmental Biology (MC&amp;D Biology)</a>	X	X		X	May not be combined with Biological Sciences (Major or Minor), EE&E Biology (Major), Integrative Physiology (Major)
<a href="#">Neuroscience</a>	X	X			
<a href="#">Paleontology</a>	X	X			May not be combined with Biological Sciences (Minor), Earth Sciences (Minor)
<a href="#">Pharmacology</a>	X	X	X	X	
<a href="#">Physics</a>	X	X	X	X	May not be combined with Astrophysics (Honors, Major or Minor), Geophysics (Honors, Major or Minor)
<a href="#">Physiology</a>	X	X			
<a href="#">Planning</a>	X	X			May not be combined with Human Geography (Minor)

<a href="#">Psychology</a>	X	X	X	X	
<a href="#">Statistics</a>	X	X	X	X	

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Science Department of Chemistry Department of Earth and Atmospheric Sciences
Contact Person:	Gerda de Vries, Associate Dean, Undergraduate Jocelyn Hall, Associate Dean, Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes, PHYS 181 (submitted <b>previously</b> by the Department of Physics)

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Department of Physics will stop offering PHYS 146, and has introduced a new course, PHYS 181.

Requirements for subject areas outside Physics affected by this change are:

- Chemistry (Honors only; changes for the Major in Chemistry are dealt with via a separate document)
- Earth Sciences (both Honors and Major)
- Environmental Earth Sciences (both Honors and Major)
- Geology (both Honors and Major)

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=50433">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=50433</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> <b>New language</b>
<h1>Bachelor of Science Chemistry Subject Area</h1>	<h1>Bachelor of Science Chemistry Subject Area</h1>

<p>· ·</p> <h2>Honors in Chemistry Requirements</h2> <p>· · ·</p> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● PHYS 126 - Fluids, Fields, and Radiation</li> <li>● PHYS 146 - Fluids and Waves</li> </ul> <p>· · ·</p>	<p>· ·</p> <h2>Honors in Chemistry Requirements</h2> <p>· · ·</p> <p>3 units from:</p> <hr/> <ul style="list-style-type: none"> <li>● PHYS 126 - Fluids, Fields, and Radiation</li> <li>● PHYS 146 - Fluids and Waves</li> <li>● PHYS 181 - Relativity, Electricity and Magnetism</li> </ul> <p>· · ·</p>
---	---

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50436">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50436</a></p>	
<p>Current Copy: <del>Removed language</del></p>	<p>Proposed Copy: New language</p>
<h2>Bachelor of Science Earth Sciences Subject Area</h2> <p>· ·</p>	<h2>Bachelor of Science Earth Sciences Subject Area</h2> <p>· ·</p>



Honors in Earth  
Sciences  
Requirements

3 units from:

- CHEM 102 - Introductory University Chemistry II
- PHYS 126 - Fluids, Fields, and Radiation
- PHYS 146 - Fluids and Waves

Major in Earth  
Sciences  
Requirements

3 units from:

Honors in Earth  
Sciences  
Requirements

3 units from:

- CHEM 102 - Introductory University Chemistry II
- PHYS 126 - Fluids, Fields, and Radiation
- PHYS 146 - Fluids and Waves
- PHYS 181 - Relativity, Electricity and Magnetism

Major in Earth  
Sciences  
Requirements

3 units from:

<ul style="list-style-type: none"> <li>• CHEM 102 - Introductory University Chemistry II</li> <li>• PHYS 126 - Fluids, Fields, and Radiation</li> <li>• PHYS 146 - Fluids and Waves</li> </ul>	<ul style="list-style-type: none"> <li>• CHEM 102 - Introductory University Chemistry II</li> <li>• PHYS 126 - Fluids, Fields, and Radiation</li> <li>• PHYS 146 - Fluids and Waves</li> <li>• <b>PHYS 181 - Relativity, Electricity and Magnetism</b></li> </ul>
--	---

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50438">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50438</a></p>	
<p>Current Copy: <b>Removed language</b></p>	<p>Proposed Copy: <b>New language</b></p>
<p>Bachelor of Science          Environmental Earth Sciences          Subject Area</p> <p>.....</p> <p>Honors in Environmental Earth</p>	<p>Bachelor of Science          Environmental Earth Sciences          Subject Area</p> <p>.....</p> <p>Honors in Environmental Earth</p>

## Sciences Requirements

.  
. .

3 units from:

- 
- PHYS 126 - Fluids, Fields, and Radiation
  - PHYS 146 - Fluids and Waves

.  
. .

## Major in Environmental Earth Sciences Requirements

.  
. .

3 units from:

---

## Sciences Requirements

.  
. .

3 units from:

- 
- PHYS 126 - Fluids, Fields, and Radiation
  - PHYS 146 - Fluids and Waves
  - PHYS 181 - Relativity, Electricity and Magnetism

.  
. .

## Major in Environmental Earth Sciences Requirements

.  
. .

3 units from:

---

<ul style="list-style-type: none"> <li>● PHYS 126 - Fluids, Fields, and Radiation</li> <li>● PHYS 146 - Fluids and Waves</li> <li>.</li> <li>.</li> <li>.</li> </ul>	<ul style="list-style-type: none"> <li>● PHYS 126 - Fluids, Fields, and Radiation</li> <li>● PHYS 146 - Fluids and Waves</li> <li>● PHYS 181 - Relativity, Electricity and Magnetism</li> <li>.</li> <li>.</li> <li>.</li> </ul>
--	--

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50439">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50439</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
<p>Bachelor of Science Geology Subject Area</p> <p>.</p> <p>.</p> <p>.</p> <p>Honors in Geology Requirements</p> <p>.</p> <p>.</p> <p>.</p> <p>3 units from:</p> <p>_____</p>	<p>Bachelor of Science Geology Subject Area</p> <p>.</p> <p>.</p> <p>.</p> <p>Honors in Geology Requirements</p> <p>.</p> <p>.</p> <p>.</p> <p>3 units from:</p> <p>_____</p>

- PHYS 126 - Fluids, Fields, and Radiation
- PHYS 146 - Fluids and Waves

## Major in Geology Requirements

3 units from:

- 
- PHYS 126 - Fluids, Fields, and Radiation
  - PHYS 146 - Fluids and Waves

- PHYS 126 - Fluids, Fields, and Radiation
- PHYS 146 - Fluids and Waves
- PHYS 181 - Relativity, Electricity and Magnetism

## Major in Geology Requirements

3 units from:

- 
- PHYS 126 - Fluids, Fields, and Radiation
  - PHYS 146 - Fluids and Waves
  - PHYS 181 - Relativity, Electricity and Magnetism

### Reviewed/Approved by:

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Science (Physics)
Contact Person:	Erik Rosolowsky
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

We are changing the terms in which we offer PHYS 281 (Fall to Winter) and PHY 244 (Winter to Fall). Students in the Engineering Physics program take one of these courses along with PHYS 292. We propose adding PHYS 244 to the Corequisite list so they can continue to be eligible for this course.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<b>Subject &amp; Number:</b> PHYS 292  <b>Title:</b> Experimental Physics for Engineers  <b>Course Career:</b> Undergraduate <b>Units:</b> 3 <b>Approved Hours:</b> 0-0-3 <b>Fee index:</b> 6 <b>Faculty:</b> Science <b>Department:</b> Physics <b>Typically Offered:</b> two term  <b>Description:</b> Experiments in mechanics, electromagnetism and atomic physics. Corequisites: PHYS 281 or 230, and MATH 209 or 214 or equivalent. Note: Restricted to Engineering students.	<b>Subject &amp; Number:</b> PHYS 292  <b>Title:</b> Experimental Physics for Engineers  <b>Course Career:</b> Undergraduate <b>Units:</b> 3 <b>Approved Hours:</b> 0-0-3 <b>Fee index:</b> 6 <b>Faculty:</b> Science <b>Department:</b> Physics <b>Typically Offered:</b> two term  <b>Description:</b> Experiments in mechanics, electromagnetism and atomic physics. Corequisites: PHYS 244 or 281 or 230, and MATH 209 or 214 or equivalent. Note: Restricted to Engineering students.

## Reviewed/Approved by:

REQUIRED: Physics Dept. Council (November 9, 2023); Faculty of Science Undergraduate Programs Committee (November 24, 2023)

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

<b>Faculty of Science</b>	<b>Psychology</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Wendy Hoglund
Department/Unit Approval Date:	Approved by Psychology Department Council 09-29-2023.
For which term is this intended to take effect?	Fall 2024

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This new course is proposed in response to a central recommendation of the 2019-2020 Undergraduate and Graduate Program Quality Assurance review. Its creation addresses the concern that psychology students are not currently receiving enough instruction in research methods and analysis applicable to the field. Courses that cover such content, such as PSYCH 213, are taught within Psychology programs at various other institutions across Canada. This course complements the content within our existing PSYCH 212: Introductory Research Methods course, and both PSYCH 212 and 213 will be new requirements of all Psychology programs as of Fall 2024. Students may still elect to complete STAT 151 in place of PSYCH 213. In addition, the creation of this course fosters enhanced course transferability for students who have completed a psychology-based statistics course at another institution.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New Course</b>
	<b>Subject &amp; Number</b> PSYCH 213 <b>Title</b> Introduction to Data Analysis in Psychology I <b>Course Career</b> Undergraduate <b>Units</b> 3 <b>Approved Hours</b> 3-0-1 <b>Fee index</b> 6 <b>Faculty</b> Science <b>Department</b> Psychology <b>Typically Offered</b> either term  <b>Description</b> Introduces basic analytical concepts and methods used in conducting and interpreting psychological research. Students will begin to learn how to summarize, interpret, and draw inferences from psychological data. This course covers quantitative and qualitative forms of data and data management; explores fundamental principles used in psychometric, neuroscientific, and behavioural analyses; and examines analytical techniques

	<p>necessary for assessing frequency, associative, and causal claims. Fulfillment of the 1 hour lab component typically involves the completion of analysis assignments.</p> <p>Prerequisites: PSYCH 104 or PSYCH 105. [Faculty of Science]</p> <p>Note: This course may not be taken for credit if credit has been obtained in STAT 151 or 161, KIN 109, PEDS 109, PTHHER 352, or SOC 210.</p>
--	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 3, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by Psychology Department Council 09-29-2023.



<b>Faculty of Science</b>	<b>Psychology</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	<a href="#">Wendy Hoglund</a>
Department/Unit Approval Date:	Approved by Psychology Department Council 09-29-2023.

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Updating prerequisites for 300 and 400 level courses to include the new course PSYCH 213 (Introduction to Data Analysis in Psychology I) as an alternative to STAT 151.

PSYCH 213 (new course) will be a new requirement of all psychology programs as of Fall 2024. Students may still elect to complete STAT 151 in place of PSYCH 213.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
<p><b>PSYCH 354 - Foundations of Cognitive Science</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> either term</p> <p><b>Description</b>            An introduction to the theories and research practices of cognitive science by examining contributions of cognitive psychology, artificial intelligence, linguistics, and neuroscience to a variety of research areas. <b>Prerequisites: STAT 144 or 151 or 161 or SCI 151 and PSYCH 258.</b> [Faculty of Science]</p> <hr/> <p>—</p> <p><b>PSYCH 372 - Behavior in Relation to Genetics</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3</p>	<p><b>PSYCH 354 - Foundations of Cognitive Science</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> either term</p> <p><b>Description</b>            An introduction to the theories and research practices of cognitive science by examining contributions of cognitive psychology, artificial intelligence, linguistics, and neuroscience to a variety of research areas. <b>Prerequisites: PSYCH 213 or STAT 151 or 161, and PSYCH 258.</b> [Faculty of Science]</p> <hr/> <p>—</p> <p><b>PSYCH 372 - Behavior in Relation to Genetics</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3</p>

**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

**Description**

An examination of the influence of genetic variations on behavioral differences in infra-human and human populations. **Prerequisites: PSYCH 104 or SCI 100, STAT 141 or 151 or 161 or SCI 151 and BIOL 207.** [Faculty of Science]

---

**PSYCH 381 - Principles of Learning**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

**Description**

Principles and processes of learning including a consideration of classical conditioning, instrumental learning, and memory. Research involving non-human animals will be emphasized. **Prerequisites: STAT 141 or 151 or 161 or SCI 151 and PSYCH 281 or 282.** [Faculty of Science]

---

**PSYCH 403 - Recent Advances in Experimental Psychology: Models and Theories**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

**Description**

**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

**Description**

An examination of the influence of genetic variations on behavioral differences in infra-human and human populations. **Prerequisites: PSYCH 104, PSYCH 213 or STAT 151 or 161, and BIOL 207.** [Faculty of Science]

---

**PSYCH 381 - Principles of Learning**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

**Description**

Principles and processes of learning including a consideration of classical conditioning, instrumental learning, and memory. Research involving non-human animals will be emphasized. **Prerequisites: PSYCH 213 or STAT 151 or 161, and PSYCH 282.** [Faculty of Science]

---

**PSYCH 403 - Recent Advances in Experimental Psychology: Models and Theories**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

**Description**

Discussion of advanced concepts and theories developed by selected fields within experimental psychology. The course will examine the relation between theory and data in these fields.

Prerequisites: STAT 141 or 151 or 161 or SCI 151 and a 300-level PSYCH course. Students must check with the Department for the topics for the year and any additional prerequisites. [Faculty of Science]

---

### **PSYCH 421 - Advanced Topics in Human Development**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

#### **Description**

An in-depth review and analysis of research in an area of human development. Prerequisites: STAT 141 or 151 or 161 or SCI 151, and PSYCH 323 or PSYCH 327 or PSYCH 329. Note: Consult with the Department for the specific topic offered each year and any additional prerequisites. [Faculty of Science]

---

### **PSYCH 457 - Embodied Cognitive Science**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-3S-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology

Discussion of advanced concepts and theories developed by selected fields within experimental psychology. The course will examine the relation between theory and data in these fields.

Prerequisites: PSYCH 213 or STAT 151 or 161, and a 300-level PSYCH course. Note: Consult the Department of Psychology webpage for the topics for the year and any additional prerequisites (<https://www.ualberta.ca/psychology/undergraduate-studies/courses/special-topics.html>). [Faculty of Science]

---

### **PSYCH 421 - Advanced Topics in Human Development**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 3-0-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

#### **Description**

An in-depth review and analysis of research in an area of human development. Prerequisites: PSYCH 213 or STAT 151 or 161, and PSYCH 323 or 327 or 329. Note: Consult the Department of Psychology website for the specific topic offered each year and any additional prerequisites (<https://www.ualberta.ca/psychology/undergraduate-studies/courses/special-topics.html>). [Faculty of Science]

---

### **PSYCH 457 - Embodied Cognitive Science**

**Course Career** Undergraduate  
**Units** 3  
**Approved Hours** 0-3S-0  
**Fee index** 6  
**Faculty** Science  
**Department** Psychology  
**Typically Offered** either term

<p><b>Typically Offered</b> either term</p> <p><b>Description</b>  Introduction to theory and practice of embodied cognitive science, focusing on phenomena that emerge from agent-environment, including how even simple agents can produce apparently complex behavior. <del>Prerequisites: STAT 141 or 151 or 161 or SCI 151, PSYCH 354 and one other 300-level psychology course.</del> [Faculty of Science]</p>	<p><b>Description</b>  Introduction to theory and practice of embodied cognitive science, focusing on phenomena that emerge from agent-environment, including how even simple agents can produce apparently complex behavior. Prerequisites: PSYCH 213 or STAT 151 or 161, PSYCH 354, and a 300-level psychology course. [Faculty of Science]</p>
--	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 3, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by Psychology Department Council 09-29-2023.

<b>Faculty of Science</b>	<b>Psychology</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Wendy Hoglund
Department/Unit Approval Date:	Approved by Psychology Department Council 09-29-2023.

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

This new course is proposed in response to a central recommendation of the 2019-2020 Undergraduate and Graduate Program Quality Assurance review. Its creation addresses the concern that psychology students are not currently receiving enough instruction in research methods and analysis applicable to the field. Courses such as PSYCH 313, are taught within psychology programs at various other institutions across Canada. This course complements the content within our existing PSYCH 212: Introductory Research Methods course, and proposed new course PSYCH 213: Introduction to Data Analysis in Psychology I. PSYCH 212 and 213 will be new requirements of all Psychology programs as of Fall 2024. PSYCH 313 will provide more extended and advanced coverage of topics covered in PSYCH 213. Students may still elect to complete STAT 252 in place of PSYCH 313. The creation of this course fosters enhanced course transferability for students who have completed a psychology-based statistics course at another institution.

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
Subject & Number	<b>Subject &amp; Number PSYCH 313</b>
Title	<b>Title Introduction to Data Analysis in Psychology II</b>
Course Career	<b>Course Career Undergraduate</b>
Units	<b>Units 3</b>
Approved Hours	<b>Approved Hours 3-0-3</b>
Fee index	<b>Fee index 6</b>
Faculty	<b>Faculty Science</b>
Department	<b>Department Psychology</b>
Typically Offered	<b>Typically Offered either term</b>
Description	<b>Description</b> This course is a continuation of PSYCH 213. Reviews basic analytical concepts and methods used in conducting and interpreting psychological research, and introduces more advanced methods and analyses that are commonly used in psychological research. Students will learn how to use software to analyze, interpret, and draw inferences from psychological data. Fulfillment of

	<p>the 3 hour lab component typically involves the completion of analysis assignments.</p> <p>Prerequisites: PSYCH 212, and PSYCH 213 or STAT 151 or 161. [Faculty of Science]</p> <p>Note: This course may not be taken for credit if credit has been obtained in STAT 252.</p>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 3, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by Psychology Department Council 09-29-2023.

<b>Faculty of Science</b>	<b>Psychology</b>
Level of change (choose one only)	X Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Wendy Hoglund
Department/Unit Approval Date:	Approved by Psychology Department Council 09-29-2023.

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

Update prerequisites for PSYCH 413 (Design and Analysis of Experiments in Psychology). Both PSYCH 212 Introduction to Research Methods in Psychology and PSYCH 213 Introduction to Data Analysis in Psychology I (new course) will be new requirements of all psychology programs as of Fall 2024. PSYCH 313 Introduction to Data Analysis for Psychology II is also a new course that will be introduced in Fall 2024. Students may still elect to complete STAT 151 in place of PSYCH 213, and STAT 252 in place of PSYCH 313.

**Calendar Copy**

<b>Current:</b> <b>Removed language</b> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
<p><b>PSYCH 413 - Design and Analysis of Experiments in Psychology</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> either term</p> <p><b>Description</b>            Provides the background necessary to design and analyze data in any area of experimental psychology and prepares students to conduct original research. Topics include sampling distributions and hypothesis testing; issues in and analysis of between-subjects, within-subjects, and mixed designs; trend analysis; planned and post hoc comparisons; fixed and random effects factors; and efficiency and power of various experimental designs. <b>Prerequisite: STAT 141 or 151 or 161 or SGI 151 and any 300-level PSYCH.</b> [Faculty of Science]</p>	<p><b>PSYCH 413 - Design and Analysis of Experiments in Psychology</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-3  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> either term</p> <p><b>Description</b>            Provides the background necessary to design and analyze data in any area of experimental psychology and prepares students to conduct original research. Topics include sampling distributions and hypothesis testing; issues in and analysis of between-subjects, within-subjects, and mixed designs; trend analysis; planned and post hoc comparisons; fixed and random effects factors; and efficiency and power of various experimental designs. <b>Prerequisite: PSYCH 212, PSYCH 213 or STAT 151 or 161, and PSYCH 313 or STAT 252 or permission of the department.</b> [Faculty of Science]</p>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 3, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by Psychology Department Council 09-29-2023.



<b>Faculty of Science</b>	<b>Psychology</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	Wendy Hoglund
Department/Unit Approval Date:	Approved by Psychology Department Council 09-29-2023.

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

We are requesting to add a NEW course PSYCH 425 (Developmental Cognitive Neuroscience). This course has been taught regularly for the past several academic years as an advanced topics course: PSYCH 421 – Advanced Topics in Human Development; and PSYCH 423 – Advanced Topics in Developmental Psychology. This course is regularly cross-listed as a graduate course.

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> New language
Subject & Number	Subject & Number <b>PSYCH 425</b>
Title	Title <b>Developmental Cognitive Neuroscience</b>
Course Career	Course Career <b>Undergraduate</b>
Units	Units <b>3</b>
Approved Hours	Approved Hours <b>3-0-0</b>
Fee index	Fee index <b>6</b>
Faculty	Faculty <b>Science</b>
Department	Department <b>Psychology</b>
Typically Offered	Typically Offered <b>either term</b>
Description	Description <b>An in-depth review and analysis of developmental cognitive neuroscience methods and principles of brain development and neuroplasticity, and their application to particular domains of development (e.g., attention, language, emotion).</b>  <b>Prerequisites: PSYCH 212, PSYCH 213 or STAT 151 or 161, and PSYCH 323 or 327 or 329 or 371 or 375 or 377. [Faculty of Science]</b>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 3, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by Psychology Department Council 09-29-2023.

<b>Faculty of Science</b>	<b>Psychology</b>
Level of change (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Contact Person:	<a href="#">Wendy Hoglund</a>
Department/Unit Approval Date:	

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

<ol style="list-style-type: none"> <li>Given the removal of course load requirements within the BSc, we have changed the wording for certain courses to indicate enrollment in “first” or “second” year of the Honors program, rather than “third” or “fourth” year of the degree.</li> <li>Though the presentation requirement for students in the first and second year of the Honors Program has been inferred within the department, we have added this as an official requirement of the Honors program</li> </ol>
---

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include all parts of course)	<b>Proposed:</b> <b>New language</b>
<p><b>PSYCH 309 – Honors Seminar I</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>            A range of conceptual and methodological issues in psychology are considered, and students receive intensive training and practice in both written and oral communications.</p> <p>Pre-requisite: A committed Thesis Supervisor and approval of the Psychology Honors Advisors. Restricted to, and required of, <del>third-year</del> students in the Science Honors Psychology program. [Faculty of Science]</p>	<p><b>PSYCH 309 – Honors Seminar I</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>            A range of conceptual and methodological issues in psychology are considered, and students receive intensive training and practice in both written and oral communications.</p> <p>Prerequisite: A committed Thesis Supervisor and approval of the Psychology Honors Advisors. Restricted to, and required of, students <b>in their first year</b> in the Science Honors Psychology program. [Faculty of Science]</p>

<p><b>PSYCH 390 – Honors Thesis I: Research Apprenticeship</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-6  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>  Under the direction of a Faculty member, students pursue a topic of interest leading to the development of a thesis proposal and, during their fourth year, the thesis research. The work normally involves both directed readings and empirical research experience.</p> <p>Restricted to, and required of, third-year students in the Honors Psychology program. [Faculty of Science]</p>	<p><b>PSYCH 390 – Honors Thesis I: Research Apprenticeship</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-6  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>  Under the direction of a Faculty member, students pursue a topic of interest leading to the development of a thesis proposal (the proposed research is completed in PSYCH 499). The work normally involves both directed readings and empirical research experience. <b>Note: Must be taken twice in the first year in the Honors program. In the first year in the Honors Program students must complete a formal presentation (i.e., oral or poster) about their research progress. This is typically done at the annual Honors Psychology Conference. Other public venues can fulfill this requirement, with approval by the Honors advisor.</b></p> <p><b>Prerequisite:</b> A committed Thesis Supervisor. Restricted to, and required of, students in their first year in the Science Honors Psychology program. [Faculty of Science]</p>
<p><b>PSYCH 409 – Honors Seminar II</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>  A continuation of PSYCH 309, with an emphasis on the development of professional skills. Topics include the new information technologies, the publication process, ethical issues, and the application of research findings to real-world problems.</p> <p>Prerequisite: PSYCH 309 and a committed Thesis</p>	<p><b>PSYCH 409 – Honors Seminar II</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 3-0-0  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>  A continuation of PSYCH 309, with an emphasis on the development of professional skills. Topics include the new information technologies, the publication process, ethical issues, and the application of research findings to real-world problems.</p> <p>Prerequisite: PSYCH 309 and a committed Thesis</p>

<p>Supervisor and approval of the Psychology Honors Advisor. Restricted to, and required of, <b>fourth-year</b> students in the Science Honors Psychology program. [Faculty of Science]</p>	<p>Supervisor and approval of the Psychology Honors Advisor. Restricted to, and required of, students <b>in their second year</b> in the Science Honors Psychology program. [Faculty of Science]</p>
<p><b>PSYCH 499 – Honors Thesis II: Thesis Research</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-6  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>  Under the direction of a faculty member, students conduct an empirical research project culminating in the Honors Thesis.</p> <p>Prerequisite: PSYCH 390. Restricted to, and required of, <b>fourth-year</b> students in the Science Honors psychology program. [Faculty of Science]</p>	<p><b>PSYCH 499 – Honors Thesis II: Thesis Research</b></p> <p><b>Course Career</b> Undergraduate  <b>Units</b> 3  <b>Approved Hours</b> 0-0-6  <b>Fee index</b> 6  <b>Faculty</b> Science  <b>Department</b> Psychology  <b>Typically Offered</b> VAR</p> <p><b>Description</b>  Under the direction of a faculty member, students conduct an empirical research project culminating in the Honors Thesis. <b>Note: Must be taken twice in the second year in the Honors program. In the second year in the Honors Program students must formally present the results of their thesis research. This is typically done at the annual Honors Psychology Conference. Other public venues can fulfill this requirement, with approval by the Honors advisor.</b></p> <p>Prerequisite: PSYCH 390 <b>and a committed Thesis Supervisor.</b> Restricted to, and required of, students <b>in their second year</b> in the Science Honors Psychology program. [Faculty of Science]</p>

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 3, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <p>Approved by Psychology Department Council 09-29-2023.</p>

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Psychology
Contact Person:	Wendy Hoglund (Associate Chair)
Level of change: (choose one only)	• <b>Undergraduate</b>
	• Graduate
Type of change request: (check all that apply)	• <b>Program</b>
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes. There are two new courses to be added to the calendar, PSYCH 213: Introduction to Data Analysis in Psychology I and PSYCH 313: Introduction to Data Analysis in Psychology II.

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

- 1) The Department of Psychology is following the feedback provided from our Quality Assurance Review, which suggested an increase in the instruction of research methods and data analysis, as they apply to the field of psychology. We are introducing two new Psychology data analysis courses (PSYCH 213 and PSYCH 313), as well as requiring Honors students to complete an advanced research methods course. Students may still complete STAT 151 and STAT 252 in place of PSYCH 213 and PSYCH 313.
- 2) Given the removal of course load requirements within the BSc, we have changed the wording for certain courses to indicate enrollment in “first” or “second” year of the Honors program, rather than “third” or “fourth” year of the degree.
- 3) Though the presentation requirement for students in the first and second year of the Honors Program has been inferred within the department, we have added this as an official requirement of the Honors program.

### Calendar Copy

URL in current Calendar (or “New page”) <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50454">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50454</a>	
Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>

<p><b>Honors in Psychology Requirements</b></p> <p><b>Foundation Courses</b>          PSYCH 104 - Basic Psychological Processes          PSYCH 105 - Individual and Social Behavior  <del>STAT 151 - Introduction to Applied Statistics I</del></p> <p><b>Senior Courses</b>          PSYCH 212 - Introduction to Research Methods in Psychology</p> <p>PSYCH 309 - Honors Seminar I          PSYCH 390 - Honors Thesis I: Research Apprenticeship (<del>to be taken twice</del>)          PSYCH 409 - Honors Seminar II          PSYCH 499 - Honors Thesis II: Thesis Research (<del>to be taken twice</del>)</p> <p><del>STAT 252 - Introduction to Applied Statistics II</del></p> <p><b>6 units from:</b>          PSYCH 223 - Lifespan Developmental Psychology          PSYCH 239 - Abnormal Psychology          PSYCH 241 - Social Psychology</p> <p><b>6 units from:</b>          PSYCH 258 - Cognitive Psychology          PSYCH 275 - Brain and Behavior          PSYCH 282 - Behavior Modification</p> <p><b>3 units from:</b>          PSYCH 303 - History of Ideas in Psychology          PSYCH 304 - History of Modern Psychology</p> <p><b>9 units from:</b></p>	<p><b>Honors in Psychology Requirements</b></p> <p><b>Foundation Courses</b>          PSYCH 104 - Basic Psychological Processes          PSYCH 105 - Individual and Social Behavior</p> <p><b>Senior Courses</b>          PSYCH 212 - Introduction to Research Methods in Psychology (See Note 2)          PSYCH 213 - Introduction to Data Analysis in Psychology I (See Notes 2 and 3)          PSYCH 313 - Introduction to Data Analysis in Psychology II (See Note 4)</p> <p>PSYCH 309 - Honors Seminar I          PSYCH 390 - Honors Thesis I: Research Apprenticeship (must be taken twice in the first year in the Honors program)          PSYCH 409 - Honors Seminar II          PSYCH 499 - Honors Thesis II: Thesis Research (must be taken twice in the second year in the Honors program)</p> <p><b>6 units from:</b>          PSYCH 223 - Lifespan Developmental Psychology          PSYCH 239 - Abnormal Psychology          PSYCH 241 - Social Psychology</p> <p><b>6 units from:</b>          PSYCH 258 - Cognitive Psychology          PSYCH 275 - Brain and Behavior          PSYCH 282 - Behavior Modification</p> <p><b>3 units from:</b>          PSYCH 303 - History of Ideas in Psychology          PSYCH 304 - History of Modern Psychology</p> <p><b>3 units from:</b>          PSYCH 356          PSYCH 412          PSYCH 413          PSYCH 415          PSYCH 431</p>
---	---

<p>any 200-, 300-, and 400-level PSYCH course</p> <p><b>9 units from:</b> any 300- and 400-level PSYCH course</p> <p><b>6 units from:</b> any 400-level PSYCH course</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>Admission into the Honors Psychology program is contingent upon securing a research supervisor. Students planning to apply for admission should contact the Department of Psychology.</li> </ol>	<p><b>PSYCH 471</b></p> <p><b>9 units from:</b> any 200-, 300-, and 400-level PSYCH course</p> <p><b>6 units from:</b> any 300- and 400-level PSYCH course</p> <p><b>6 units from:</b> any 400-level PSYCH course</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>Admission into the Honors Psychology program is contingent upon securing a research supervisor. Advice on how to do this is found on the <a href="#">Department Website</a>. Students planning to apply for admission may contact the Honors Advisor in the Department of Psychology.</li> <li>PSYCH 212 and 213 should be completed within the first 60 units of the degree.</li> <li>While PSYCH 213 is preferred, this requirement may instead be satisfied by completing STAT 151 or 161.</li> <li>While PSYCH 313 is preferred, this requirement may instead be satisfied by completing STAT 252.</li> </ol>
---	---

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. November 3, 2023 by the Science Undergraduate Programs Committee.</p>
<p>OPTIONAL: Approved by Psychology Department Council 09-29-2023.</p>



Faculty (& Department or Academic Unit):	Faculty of Science, Department of Psychology
Contact Person:	Wendy Hoglund (Associate Chair)
Level of change: (choose one only)	• <b>Undergraduate</b>
	• Graduate
Type of change request: (check all that apply)	• <b>Program</b>
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes. New course: PSYCH 213 - Introduction to Data Analysis in Psychology I

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The addition of PSYCH 213 - Introduction to Data Analysis in Psychology I as a requirement for the Major program is in response to a central recommendation of the 2019-2020 Undergraduate and Graduate Program Quality Assurance review. It addresses the concern that psychology students are not currently receiving enough instruction in research methods and data analysis applicable to the field. Courses such as PSYCH 213 are taught within psychology programs at various other institutions across Canada. This course compliments the content within our existing PSYCH 212 - Introduction to Research Methods in Psychology course. Both PSYCH 212 and PSYCH 213 are proposed new requirements of all psychology programs as of Fall 2024.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50454">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50454</a>	
<b>Current Copy:</b> <b>Removed language</b>	<b>Proposed Copy:</b> <b>New language</b>
<b>Major in Psychology Requirements</b>  <b>Foundation Courses</b> PSYCH 104 - Basic Psychological Processes PSYCH 105 - Individual and Social Behavior <del>STAT 151 - Introduction to Applied Statistics I</del>	<b>Major in Psychology Requirements</b>  <b>Foundation Courses</b> PSYCH 104 - Basic Psychological Processes PSYCH 105 - Individual and Social Behavior

<p><b>Senior Courses</b>  <del>STAT 252 – Introduction to Applied Statistics II</del></p> <p><b>6 units from:</b>                  PSYCH 223 - Lifespan Developmental Psychology                  PSYCH 239 - Abnormal Psychology                  PSYCH 241 - Social Psychology</p> <p><b>6 units from:</b>                  PSYCH 258 - Cognitive Psychology                  PSYCH 275 - Brain and Behavior                  PSYCH 282 - Behavior Modification</p> <p><b>6 units from:</b>                  any 300- and 400-level PSYCH course</p> <p><b>3 units from:</b>                  any 300- and 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 units from:</b>                  any 300- and 400-level PSYCH course offered by the Faculty of Science</p> <p><b>3 units from:</b>                  any 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 units from:</b>                  any 400-level PSYCH course offered by the Faculty of Science</p>	<p><b>Senior Courses</b>                  PSYCH 212 - Introduction to Research Methods in Psychology (See Note 1)                  PSYCH 213 - Introduction to Data Analysis in Psychology I (See Notes 1 and 2)</p> <p><b>6 units from:</b>                  PSYCH 223 - Lifespan Developmental Psychology                  PSYCH 239 - Abnormal Psychology                  PSYCH 241 - Social Psychology</p> <p><b>6 units from:</b>                  PSYCH 258 - Cognitive Psychology                  PSYCH 275 - Brain and Behavior                  PSYCH 282 - Behavior Modification</p> <p><b>6 units from:</b>                  any 300- and 400-level PSYCH course</p> <p><b>3 units from:</b>                  any 300- and 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 units from:</b>                  any 300- and 400-level PSYCH course offered by the Faculty of Science</p> <p><b>3 units from:</b>                  any 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 units from:</b>                  any 400-level PSYCH course offered by the Faculty of Science</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. PSYCH 212 and 213 should be completed within the first 60 units of the degree.</li> <li>2. While PSYCH 213 is preferred, this requirement may instead be satisfied by completing STAT 151 or 161.</li> </ol>
--	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. November 3, 2023 by the Science Undergraduate Programs Committee.

OPTIONAL: Approved by Psychology Department Council 09-29-2023.

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Psychology
Contact Person:	Wendy Hoglund (Associate Chair)
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Undergraduate</li> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Program</li> <li>• Regulation</li> </ul>
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes. New course: PSYCH 213 - Introduction to Data Analysis in Psychology I

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The addition of PSYCH 213 - Introduction to Data Analysis in Psychology I as a requirement for the Minor program is in response to a central recommendation of the 2019-2020 Undergraduate and Graduate Program Quality Assurance review. It addresses the concern that psychology students are not currently receiving enough instruction in research methods and data analysis applicable to the field. Courses such as PSYCH 213 are taught within psychology programs at various other institutions across Canada. This course compliments the content within our existing PSYCH 212 - Introduction to Research Methods in Psychology course. Both PSYCH 212 and PSYCH 213 are proposed new requirements of all psychology programs as of Fall 2024.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50454">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50454</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
<p>.</p> <p>.</p> <p>.</p> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>• Honors in Psychology (72 units)</li> <li>• Major in Psychology (42 units)</li> <li>• Minor in Psychology (27 units)</li> </ul> <p>.</p> <p>.</p> <p>.</p>	<p>.</p> <p>.</p> <p>.</p> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>• Honors in Psychology (72 units)</li> <li>• Major in Psychology (42 units)</li> <li>• Minor in Psychology (30 units)</li> </ul> <p>.</p> <p>.</p> <p>.</p>

<p><b>Minor in Psychology Requirements</b></p> <p><b>Foundation Courses</b>          PSYCH 104 - Basic Psychological Processes          PSYCH 105 - Individual and Social Behavior  <del>STAT 151 - Introduction to Applied Statistics I</del></p> <p><b>Senior Courses</b></p> <p><b>3 units from:</b>          PSYCH 223 - Lifespan Developmental Psychology          PSYCH 239 - Abnormal Psychology          PSYCH 241 - Social Psychology</p> <p><b>3 units from:</b>          PSYCH 258 - Cognitive Psychology          PSYCH 275 - Brain and Behavior          PSYCH 282 - Behavior Modification</p> <p><b>6 units from:</b>          any 200-, 300-, and 400-level PSYCH course</p> <p><b>3 units from:</b>          any 300- and 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 units from:</b>          any 300- and 400-level PSYCH course offered by the Faculty of Science</p>	<p><b>Minor in Psychology Requirements</b></p> <p><b>Foundation Courses</b>          PSYCH 104 - Basic Psychological Processes          PSYCH 105 - Individual and Social Behavior</p> <p><b>Senior Courses</b>          PSYCH 212 - Introduction to Research Methods in Psychology (See Note 1)          PSYCH 213 - Introduction to Data Analysis in Psychology I (See Notes 1 and 2)</p> <p><b>3 units from:</b>          PSYCH 223 - Lifespan Developmental Psychology          PSYCH 239 - Abnormal Psychology          PSYCH 241 - Social Psychology</p> <p><b>3 units from:</b>          PSYCH 258 - Cognitive Psychology          PSYCH 275 - Brain and Behavior          PSYCH 282 - Behavior Modification</p> <p><b>6 units from:</b>          any 200-, 300-, and 400-level PSYCH course</p> <p><b>3 units from:</b>          any 300- and 400-level PSYCH course offered by the Faculty of Arts</p> <p><b>3 units from:</b>          any 300- and 400-level PSYCH course offered by the Faculty of Science</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. PSYCH 212 and 213 should be completed within the first 60 units of the degree.</li> <li>2. While PSYCH 213 is preferred, this requirement may instead be satisfied by completing STAT 151 or 161.</li> </ol>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. November 3, 2023 by the Science Undergraduate Programs Committee.

OPTIONAL: Approved by Psychology Department Council 09-29-2023.

Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

BIOL 335 (Principles of Systematics) is not a topics course. Therefore the parenthetical note should be removed from this course in List E.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50426">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50426</a>	
Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<b>Course Lists A - E for Bachelor of Science Ecology, Evolution &amp; Environmental Biology Subject Area</b> . . .	<b>Course Lists A - E for Bachelor of Science Ecology, Evolution &amp; Environmental Biology Subject Area</b> . . .

**EE&E List E - Scientific Methodology:**

- BIOIN 301 - Bioinformatics I
- BIOIN 401 - Bioinformatics II
- BIOL 330 - Introduction to Biological Data
- BIOL 335 - Principles of Systematics ~~(if appropriate topic)~~
- BIOL 392 - Laboratory Techniques in Molecular Ecology and Systematics
- BIOL 395 - Field Course in Biology
- BIOL 421 - Molecular Evolution and Systematics
- BIOL 430 - Statistical Design and Analysis in Biology
- ENT 327 - Terrestrial Arthropod Diversity
- IMIN 410 - Bioinformatics for Molecular Biologists
- MA SC 402 - Special Topics in Marine Biology (if appropriate topic)
- MICRB 315 - Applied Microbiology and Biotechnology
- MICRB 392 - Environmental Microbiology Laboratory
- PALEO 400 - Paleontology Field School
- ZOOL 350 - Biology and Evolution of Invertebrates
- ZOOL 351 - Freshwater Invertebrate Diversity

**EE&E List E - Scientific Methodology:**

- BIOIN 301 - Bioinformatics I
- BIOIN 401 - Bioinformatics II
- BIOL 330 - Introduction to Biological Data
- BIOL 335 - Principles of Systematics
- BIOL 392 - Laboratory Techniques in Molecular Ecology and Systematics
- BIOL 395 - Field Course in Biology
- BIOL 421 - Molecular Evolution and Systematics
- BIOL 430 - Statistical Design and Analysis in Biology
- ENT 327 - Terrestrial Arthropod Diversity
- IMIN 410 - Bioinformatics for Molecular Biologists
- MA SC 402 - Special Topics in Marine Biology (if appropriate topic)
- MICRB 315 - Applied Microbiology and Biotechnology
- MICRB 392 - Environmental Microbiology Laboratory
- PALEO 400 - Paleontology Field School
- ZOOL 350 - Biology and Evolution of Invertebrates
- ZOOL 351 - Freshwater Invertebrate Diversity

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

Approved by Science Undergraduate Programs Committee on November 24, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

In the section Subject Area Courses, the course designator GENET is missing.

MATH 134 can be replaced by any Calculus I version offered, and Note 1 for both the Honors and the Major is revised accordingly.

In bulleted lists of the subject area courses in each of the Honors, Major, and Minor, the order of the course designators MICRB and MMI is reversed.

There is no definition of a Discipline course; the word Discipline can be omitted throughout.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50431">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50431</a>	
<b>Current Copy:</b> <span style="background-color: yellow;">Removed language</span>	<b>Proposed Copy:</b> <span style="background-color: yellow;">New language</span>
<h1>Bachelor of Science Biological</h1>	<h1>Bachelor of Science Biological</h1>



## Sciences Subject Area

### General Information

---

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

### Subject Area Courses

---

Biological Sciences subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators BIOCH, BIOIN, BIOL, BOT, CELL, ENT, IMIN, MA SC, MICRB, MMI, NEURO, PALEO, PHYSL, PMCOL, and ZOOL.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission](#)

## Sciences Subject Area

### General Information

---

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

### Subject Area Courses

---

Biological Sciences subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators BIOCH, BIOIN, BIOL, BOT, CELL, ENT, **GENET**, IMIN, MA SC, MICRB, MMI, NEURO, PALEO, PHYSL, PMCOL, and ZOOL.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission](#)

[Requirements](#), [Academic Standing](#), [Internal Changes to Program and/or Subject Area](#) and [Graduation](#) for more information.

## Requirements

---

- Honors in Biological Sciences (69 units)
- Major in Biological Sciences (48 units)
- Minor in Biological Sciences (24 units)

## Honors in Biological Sciences Requirements

---

## Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

[Requirements](#), [Academic Standing](#), [Internal Changes to Program and/or Subject Area](#) and [Graduation](#) for more information.

## Requirements

---

- Honors in Biological Sciences (69 units)
- Major in Biological Sciences (48 units)
- Minor in Biological Sciences (24 units)

## Honors in Biological Sciences Requirements

---

## Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Senior Courses

- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- BIOL 221 - Mechanisms of Evolution
- BIOL 499 - Research Project
- CHEM 261 - Organic Chemistry I

3 units from:

- [Ecology, Evolution or Diversity List](#) (See Note 2)

3 units from:

- [Genetics, Molecular Biology or Microbiology List](#) (See Note 2)

3 units from:

- [Physiology, Cell Biology or Developmental Biology List](#) (See Note 2)

24 units from:

- any 300- and 400-level **Discipline** course with the following course designators (with at least 9 units at the 400-level; see Note 3):
  - BIOCH

## Senior Courses

- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- BIOL 221 - Mechanisms of Evolution
- BIOL 499 - Research Project
- CHEM 261 - Organic Chemistry I

3 units from:

- [Ecology, Evolution or Diversity List](#) (See Note 2)

3 units from:

- [Genetics, Molecular Biology or Microbiology List](#) (See Note 2)

3 units from:

- [Physiology, Cell Biology or Developmental Biology List](#) (See Note 2)

24 units from:

- any 300- and 400-level course with the following course designators (with at least 9 units at the 400-level; see Note 3):
  - BIOCH

- BIOIN
- BIOL
- BOT
- CELL
- ENT
- GENET
- IMIN
- MA SC
- **MMI**
- **MICRB**
- NEURO
- PALEO
- PHYSL
- PMCOL
- ZOOL

3 units from:

- 
- any 200-, 300- and 400-level course with the following course designators:
    - CHEM
    - CMPUT
    - EAS
    - MATH
    - PL SC
    - PHYS
    - REN R

Notes:

- 
1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117 or MATH 144**.
  2. BIOL 107, BIOL 108, BIOL 207, BIOL 208 and BIOL 221 may not be used to fulfill this program requirement.

- BIOIN
- BIOL
- BOT
- CELL
- ENT
- GENET
- IMIN
- MA SC
- **MICRB**
- **MMI**
- NEURO
- PALEO
- PHYSL
- PMCOL
- ZOOL

3 units from:

- 
- any 200-, 300- and 400-level course with the following course designators:
    - CHEM
    - CMPUT
    - EAS
    - MATH
    - PL SC
    - PHYS
    - REN R

Notes:

- 
1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117, MATH 144, or MATH 154**.
  2. BIOL 107, BIOL 108, BIOL 207, BIOL 208 and BIOL 221 may not be used to fulfill this program requirement.

3. Students must complete at least 9 units in **Discipline** courses with a lab component (at the 200-, 300-, and 400-level; excluding BIOL 207, BIOL 208, BIOL 298, BIOL 299, BIOL 398, BIOL 399, BIOL 490, BIOL 498, BIOL 499, MMI 499 or equivalent, and other research or independent study courses).
4. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

## Major in Biological Sciences Requirements

---

### Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

### Senior Courses

3. Students must complete at least 9 units in courses with a lab component (at the 200-, 300-, and 400-level; excluding BIOL 207, BIOL 208, BIOL 298, BIOL 299, BIOL 398, BIOL 399, BIOL 490, BIOL 498, BIOL 499, MMI 499 or equivalent, and other research or independent study courses).
4. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

## Major in Biological Sciences Requirements

---

### Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

### Senior Courses

<hr/> <ul style="list-style-type: none"> <li>• BIOL 207 - Molecular Genetics and Heredity</li> <li>• BIOL 208 - Principles of Ecology</li> </ul> <p>3 units from:</p>	<hr/> <ul style="list-style-type: none"> <li>• BIOL 207 - Molecular Genetics and Heredity</li> <li>• BIOL 208 - Principles of Ecology</li> </ul> <p>3 units from:</p>
<hr/> <ul style="list-style-type: none"> <li>• <a href="#">Ecology, Evolution or Diversity List</a> (See Note 2)</li> </ul> <p>3 units from:</p>	<hr/> <ul style="list-style-type: none"> <li>• <a href="#">Ecology, Evolution or Diversity List</a> (See Note 2)</li> </ul> <p>3 units from:</p>
<hr/> <ul style="list-style-type: none"> <li>• <a href="#">Genetics, Molecular Biology or Microbiology List</a> (See Note 2)</li> </ul> <p>3 units from:</p>	<hr/> <ul style="list-style-type: none"> <li>• <a href="#">Genetics, Molecular Biology or Microbiology List</a> (See Note 2)</li> </ul> <p>3 units from:</p>
<hr/> <ul style="list-style-type: none"> <li>• <a href="#">Physiology, Cell Biology or Developmental Biology List</a> (See Note 2)</li> </ul> <p>18 units from:</p>	<hr/> <ul style="list-style-type: none"> <li>• <a href="#">Physiology, Cell Biology or Developmental Biology List</a> (See Note 2)</li> </ul> <p>18 units from:</p>
<hr/> <ul style="list-style-type: none"> <li>• any 300- and 400-level <b>Discipline</b> course with the following course designators (with at least 6 units at the 400-level; See Note 3):             <ul style="list-style-type: none"> <li>○ BIOCH</li> <li>○ BIOIN</li> <li>○ BIOL</li> <li>○ BOT</li> <li>○ CELL</li> <li>○ ENT</li> <li>○ GENET</li> </ul> </li> </ul>	<hr/> <ul style="list-style-type: none"> <li>• any 300- and 400-level course with the following course designators (with at least 6 units at the 400-level; See Note 3):             <ul style="list-style-type: none"> <li>○ BIOCH</li> <li>○ BIOIN</li> <li>○ BIOL</li> <li>○ BOT</li> <li>○ CELL</li> <li>○ ENT</li> <li>○ GENET</li> </ul> </li> </ul>

- IMIN
- MA SC
- ~~MMI~~
- ~~MICRB~~
- NEURO
- PALEO
- PHYSL
- PMCOL
- ZOOL

Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117 or MATH 144**.
2. BIOL 107, BIOL 108, BIOL 207 and BIOL 208 may not be used to fulfill this program requirement.
3. Students must complete at least 9 units in **Discipline** courses with a lab component (at the 200-, 300-, and 400-level; excluding BIOL 207, BIOL 208, BIOL 298, BIOL 299, BIOL 398, BIOL 399, BIOL 490, BIOL 498, BIOL 499, MMI 499 or equivalent, and other research or independent study courses).
4. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

- IMIN
- MA SC
- **MICRB**
- **MMI**
- NEURO
- PALEO
- PHYSL
- PMCOL
- ZOOL

Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117, MATH 144, or MATH 154**.
2. BIOL 107, BIOL 108, BIOL 207 and BIOL 208 may not be used to fulfill this program requirement.
3. Students must complete at least 9 units in courses with a lab component (at the 200-, 300-, and 400-level; excluding BIOL 207, BIOL 208, BIOL 298, BIOL 299, BIOL 398, BIOL 399, BIOL 490, BIOL 498, BIOL 499, MMI 499 or equivalent, and other research or independent study courses).
4. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

# Minor in Biological Sciences Requirements

---

## Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity

## Senior Courses

---

3 units from:

---

- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology

3 units from:

---

- [Ecology, Evolution or Diversity List](#)  
(See Note 1)

3 units from:

---

# Minor in Biological Sciences Requirements

---

## Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity

## Senior Courses

---

3 units from:

---

- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology

3 units from:

---

- [Ecology, Evolution or Diversity List](#)  
(See Note 1)

3 units from:

---



- Genetics, Molecular Biology or Microbiology List (See Note 1)

3 units from:

---

- Physiology, Cell Biology or Developmental Biology List (See Note 1)

6 units from:

---

- any 300- and 400-level **Discipline** course with the following course designators:
  - BIOCH
  - BIOIN
  - BIOL
  - BOT
  - CELL
  - ENT
  - GENET
  - IMIN
  - MA SC
  - **MMI**
  - **MICRB**
  - NEURO
  - PALEO
  - PHYSL
  - PMCOL
  - ZOOL

Notes:

---

- Genetics, Molecular Biology or Microbiology List (See Note 1)

3 units from:

---

- Physiology, Cell Biology or Developmental Biology List (See Note 1)

6 units from:

---

- any 300- and 400-level course with the following course designators:
  - BIOCH
  - BIOIN
  - BIOL
  - BOT
  - CELL
  - ENT
  - GENET
  - IMIN
  - MA SC
  - **MICRB**
  - **MMI**
  - NEURO
  - PALEO
  - PHYSL
  - PMCOL
  - ZOOL

Notes:

---

1. BIOL 107, BIOL 108, BIOL 207 and BIOL 208 may not be used to fulfill this program requirement.

1. BIOL 107, BIOL 108, BIOL 207 and BIOL 208 may not be used to fulfill this program requirement.

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

Approved by Science Undergraduate Programs Committee on November 24, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Department of Biological Sciences: Proposed changes deemed editorial and approved by Corwin Sullivan, Associate Chair, on October 19, 2023.

Faculty (& Department or Academic Unit):	Faculty of Science
Contact Person:	Gerda de Vries, Associate Dean, Undergraduate Jocelyn Hall, Associate Dean, Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

We are updating Note 1 to remove a regulation that is difficult to enforce, and replace it with a statement about admission requirements.

### Calendar Copy

URL in current Calendar (or "New page")	
<a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50457">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50457</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> <b>New language</b>
<h2 style="text-align: center;">Bachelor of Science Business Subject Area</h2> <h3 style="text-align: center;">General Information</h3> <p>The subject area requirements listed on this page are part of the <a href="#">Bachelor of Science</a> offered by the Faculty of Science. Students must ensure they are familiar with and follow all <a href="#">University Regulations</a> and <a href="#">Faculty</a></p>	<h2 style="text-align: center;">Bachelor of Science Business Subject Area</h2> <h3 style="text-align: center;">General Information</h3> <p>The subject area requirements listed on this page are part of the <a href="#">Bachelor of Science</a> offered by the Faculty of Science. Students must ensure they are familiar with and follow all <a href="#">University Regulations</a> and <a href="#">Faculty</a></p>

[of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Requirements

- [Minor in Business \(24 units\)](#)

## Minor in Business Requirements

### Foundation Courses

- ECON 101 - Introduction to Microeconomics
- ECON 102 - Introduction to Macroeconomics

### Senior Courses

- ACCTG 311 - Introduction to Accounting for Financial Performance
- SEM 301 - Behavior in Organizations

### 6 units from:

- FIN 301 - Introduction to Finance
- MARK 301 - Introduction to Marketing
- OM 352 - Operations Management
- SEM 321 - Introduction to Strategic Management and Organization Design

### 6 units from:

- any 300- and 400-level course with the following course designators:
  - ACCTG
  - FIN
  - MARK
  - OM
  - SEM

### Notes:

1. ~~Once admitted to the Minor in Business, students will be allowed to continue as long as they remain in satisfactory academic standing.~~

[of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Requirements

- [Minor in Business \(24 units\)](#)

## Minor in Business Requirements

### Foundation Courses

- ECON 101 - Introduction to Microeconomics
- ECON 102 - Introduction to Macroeconomics

### Senior Courses

- ACCTG 311 - Introduction to Accounting for Financial Performance
- SEM 301 - Behavior in Organizations

### 6 units from:

- FIN 301 - Introduction to Finance
- MARK 301 - Introduction to Marketing
- OM 352 - Operations Management
- SEM 321 - Introduction to Strategic Management and Organization Design

### 6 units from:

- any 300- and 400-level course with the following course designators:
  - ACCTG
  - FIN
  - MARK
  - OM
  - SEM

### Notes:

1. Admission to the Minor in Business requires completion of a minimum of 24 units and is

	competitive. For details, see <a href="#">Faculty of Science Admission Requirements</a> .
--	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Approved by Science Undergraduate Programs Committee on November 29, 2023
---

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.
---

Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Note 1 for the Major has a typo. While reviewing Note 1, it was decided to make the alternatives to MATH 134 more inclusive and transparent for both the Honors and Major: any of the Calculus I variants offered is acceptable.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=50437">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poiid=50437</a>	
Current Copy: <del>Removed language</del>	Proposed Copy: <b>New language</b>
<h2 style="margin: 0;">Bachelor of Science Ecology, Evolution and Environmental Biology Subject Area</h2> <p style="margin: 0;">.</p> <p style="margin: 0;">.</p> <p style="margin: 0;">.</p>	<h2 style="margin: 0;">Bachelor of Science Ecology, Evolution and Environmental Biology Subject Area</h2> <p style="margin: 0;">.</p> <p style="margin: 0;">.</p> <p style="margin: 0;">.</p>

## Honors in Ecology, Evolution and Environmental Biology Requirements

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

### Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117** or **MATH 144**.
2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

## Major in Ecology, Evolution and Environmental Biology Requirements

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Honors in Ecology, Evolution and Environmental Biology Requirements

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

### Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117**, **MATH 144**, or **MATH 154**.
2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

## Major in Ecology, Evolution and Environmental Biology Requirements

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

<p>.</p> <p>.</p> <p>.</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"><li>1. MATH 134 is strongly recommended; however, it may be replaced with <b>MATH 134</b> or <b>MATH 144</b>.</li><li>2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.</li><li>3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li></ol>	<p>.</p> <p>.</p> <p>.</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"><li>1. MATH 134 is strongly recommended; however, it may be replaced with <b>MATH 117</b>, <b>MATH 144</b>, or <b>MATH 154</b>.</li><li>2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.</li><li>3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li></ol>
--	--

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date.</p> <p>Approved by Science Undergraduate Programs Committee on November 24, 2023.</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p>



Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The unit count in Note 2 for the Major is corrected from 6 to 3 (this ensures that all students in the Major are held to the same minimum number of 400-level courses, and now is consistent with Note 2 for the Honors).

MATH 134 can be replaced by any Calculus I version offered, and Note 1 for both the Honors and the Major is revised accordingly.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50441">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50441</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
<h1 style="margin: 0;">Bachelor of Science Immunology and</h1>	<h1 style="margin: 0;">Bachelor of Science Immunology and</h1>

# Infection Subject Area

## General Information

---

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Subject Area Courses

---

Immunology and Infection subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators IMIN and MMI.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission Requirements, Academic Standing, Internal Changes to Program and/or Subject Area and Graduation](#) for more information.

# Infection Subject Area

## General Information

---

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Subject Area Courses

---

Immunology and Infection subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators IMIN and MMI.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission Requirements, Academic Standing, Internal Changes to Program and/or Subject Area and Graduation](#) for more information.

## Requirements

---

- [Honors in Immunology and Infection \(90 units\)](#)
- [Major in Immunology and Infection \(81 units\)](#)

## Honors in Immunology and Infection Requirements

---

## Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Senior Courses

---

## Requirements

---

- [Honors in Immunology and Infection \(90 units\)](#)
- [Major in Immunology and Infection \(81 units\)](#)

## Honors in Immunology and Infection Requirements

---

## Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Senior Courses

---

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- CHEM 261 - Organic Chemistry I
- CHEM 263 - Organic Chemistry II
- IMIN 200 - Infection and Immunity
- IMIN 324 - Basic Virology
- IMIN 371 - Introduction to Immunology
- IMIN 452 - Advanced Immunology
- MICRB 265 - General Microbiology
- MMI 351 - Bacterial Pathogenesis
- ZOOL 352 - Principles of Parasitism

3 units from:

---

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

6 units from:

---

PHYSL 210 - Human Physiology

PHYSL 212 - Human Physiology I

**AND**

PHYSL 214 - Human Physiology II

ZOOL 241 - Animal Physiology I: Homeostasis **AND**

ZOOL 242 - Animal Physiology II: Intercellular Communication

3 units from:

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- CHEM 261 - Organic Chemistry I
- CHEM 263 - Organic Chemistry II
- IMIN 200 - Infection and Immunity
- IMIN 324 - Basic Virology
- IMIN 371 - Introduction to Immunology
- IMIN 452 - Advanced Immunology
- MICRB 265 - General Microbiology
- MMI 351 - Bacterial Pathogenesis
- ZOOL 352 - Principles of Parasitism

3 units from:

---

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

6 units from:

---

PHYSL 210 - Human Physiology

PHYSL 212 - Human Physiology I

**AND**

PHYSL 214 - Human Physiology II

ZOOL 241 - Animal Physiology I: Homeostasis **AND**

ZOOL 242 - Animal Physiology II: Intercellular Communication

3 units from:

- 
- BIOCH 330 - Nucleic Acids and Molecular Biology (See Note 3)
  - GENET 270 - Foundations of Molecular Genetics (See Note 3)

3 units from:

- 
- BIOL 391 - Techniques in Molecular Biology and Bioinformatics
  - MMI 391 - Current Methods in Molecular Biology

3 units from:

- 
- BIOCH 430 - Biochemistry of Eukaryotic Gene Expression (See Note 3)
  - GENET 304 - Gene Expression and its Regulation (See Notes 2 and 3)
  - MICRB 316 - Molecular Microbiology (See Notes 2 and 3)

6 units from:

- 
- BIOL 499 - Research Project
  - MMI 499 - Independent Research in Infection and Immunity

6 units from:

- 
- any course in [I&I List A](#) (see Note 5)

6 units from:

- 
- BIOCH 330 - Nucleic Acids and Molecular Biology (See Note 3)
  - GENET 270 - Foundations of Molecular Genetics (See Note 3)

3 units from:

- 
- BIOL 391 - Techniques in Molecular Biology and Bioinformatics
  - MMI 391 - Current Methods in Molecular Biology

3 units from:

- 
- BIOCH 430 - Biochemistry of Eukaryotic Gene Expression (See Note 3)
  - GENET 304 - Gene Expression and its Regulation (See Notes 2 and 3)
  - MICRB 316 - Molecular Microbiology (See Notes 2 and 3)

6 units from:

- 
- BIOL 499 - Research Project
  - MMI 499 - Independent Research in Infection and Immunity

6 units from:

- 
- any course in [I&I List A](#) (see Note 5)

6 units from:

- any course in [I&I List B](#) (see Note 5)

Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117 or MATH 144**.
2. If GENET 304 or MICRB 316 is taken to satisfy this requirement, students must ensure at least 3 units from List A are at the 400-level.
3. GENET 270 is the prerequisite for GENET 304 and MICRB 316, while BIOCH 320 and BIOCH 330 are prerequisites for BIOCH 430.
4. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
5. At least 3 units from List A or B must be in a course with a lab component.
6. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

Major in Immunology and Infection Requirements

Foundation Courses

- any course in [I&I List B](#) (see Note 5)

Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with **MATH 117, MATH 144, or MATH 154**.
2. If GENET 304 or MICRB 316 is taken to satisfy this requirement, students must ensure at least 3 units from List A are at the 400-level.
3. GENET 270 is the prerequisite for GENET 304 and MICRB 316, while BIOCH 320 and BIOCH 330 are prerequisites for BIOCH 430.
4. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
5. At least 3 units from List A or B must be in a course with a lab component.
6. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

Major in Immunology and Infection Requirements

Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Senior Courses

---

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- CHEM 261 - Organic Chemistry I
- CHEM 263 - Organic Chemistry II
- IMIN 200 - Infection and Immunity
- IMIN 324 - Basic Virology
- IMIN 371 - Introduction to Immunology
- IMIN 452 - Advanced Immunology
- MICRB 265 - General Microbiology
- MMI 351 - Bacterial Pathogenesis
- ZOOL 352 - Principles of Parasitism

3 units from:

---

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Senior Courses

---

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- CHEM 261 - Organic Chemistry I
- CHEM 263 - Organic Chemistry II
- IMIN 200 - Infection and Immunity
- IMIN 324 - Basic Virology
- IMIN 371 - Introduction to Immunology
- IMIN 452 - Advanced Immunology
- MICRB 265 - General Microbiology
- MMI 351 - Bacterial Pathogenesis
- ZOOL 352 - Principles of Parasitism

3 units from:

---

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

6 units from:

---

PHYSL 210 - Human Physiology

PHYSL 212 - Human Physiology I  
**AND**  
PHYSL 214 - Human Physiology II

ZOOL 241 - Animal Physiology I:  
Homeostasis **AND**  
ZOOL 242 - Animal Physiology II:  
Intercellular Communication

3 units from:

---

- BIOCH 330 - Nucleic Acids and Molecular Biology (See Note 3)
- GENET 270 - Foundations of Molecular Genetics (See Note 3)

3 units from:

---

- BIOCH 430 - Biochemistry of Eukaryotic Gene Expression (See Note 3)
- GENET 304 - Gene Expression and its Regulation (See Notes 2 and 3)
- MICRB 316 - Molecular Microbiology (See Notes 2 and 3)

9 units from:

---

- any course in [I&I List A](#) (see Note 5)

6 units from:

---

PHYSL 210 - Human Physiology

PHYSL 212 - Human Physiology I  
**AND**  
PHYSL 214 - Human Physiology II

ZOOL 241 - Animal Physiology I:  
Homeostasis **AND**  
ZOOL 242 - Animal Physiology II:  
Intercellular Communication

3 units from:

---

- BIOCH 330 - Nucleic Acids and Molecular Biology (See Note 3)
- GENET 270 - Foundations of Molecular Genetics (See Note 3)

3 units from:

---

- BIOCH 430 - Biochemistry of Eukaryotic Gene Expression (See Note 3)
- GENET 304 - Gene Expression and its Regulation (See Notes 2 and 3)
- MICRB 316 - Molecular Microbiology (See Notes 2 and 3)

9 units from:

---

- any course in [I&I List A](#) (see Note 5)



3 units from:

- any course in [I&I List B](#) (see Note 5)

Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with ~~MATH 117~~ or MATH 144.
2. If GENET 304 or MICRB 316 is taken to satisfy this requirement, students must ensure the 6 units from List A are at the 400-level.
3. GENET 270 is the prerequisite for GENET 304 and MICRB 316, while BIOCH 320 and BIOCH 330 are prerequisites for BIOCH 430.
4. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
5. At least 3 units selected from List A or B must be in a course with a lab component.
6. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

3 units from:

- any course in [I&I List B](#) (see Note 5)

Notes:

1. MATH 134 is strongly recommended; however, it may be replaced with MATH 117, MATH 144, or MATH 154.
2. If GENET 304 or MICRB 316 is taken to satisfy this requirement, students must ensure at least 3 units from List A are at the 400-level.
3. GENET 270 is the prerequisite for GENET 304 and MICRB 316, while BIOCH 320 and BIOCH 330 are prerequisites for BIOCH 430.
4. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
5. At least 3 units selected from List A or B must be in a course with a lab component.
6. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

Approved by Science Undergraduate Programs Committee on November 24, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences
Contact Person:	Corwin Sullivan, bioacu@ualberta.ca
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Currently, only some courses offered by the Department of Biological Sciences are included in the program subject area by default, if at the 200-level or higher. The proposed wording broadens the subject area to include by default all 200-level or higher courses offered by the Department.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50442">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50442</a>	
Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<h2 style="text-align: center;">Bachelor of Science Integrative Physiology Subject Area</h2> <hr style="width: 80%; margin: 0 auto;"/>	<h2 style="text-align: center;">Bachelor of Science Integrative Physiology Subject Area</h2> <hr style="width: 80%; margin: 0 auto;"/>

## General Information

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Subject Area Courses

Integrative Physiology subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators BIOL, BOT, CELL, GENET, IMIN, NEURO, PHYSL, and ZOOL.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission Requirements](#), [Academic Standing](#), [Internal Changes to Program and/or Subject Area](#) and [Graduation](#) for more information.

## Requirements

- [Honors in Integrative Physiology \(72 units\)](#)
- [Major in Integrative Physiology \(54 units\)](#)

## Honors in Integrative Physiology Requirements

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## General Information

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Subject Area Courses

Integrative Physiology subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators **BIOIN**, BIOL, BOT, CELL, **ENT**, GENET, IMIN, **MA SC**, **MICRB**, NEURO, **PALEO**, PHYSL, and ZOOL.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission Requirements](#), [Academic Standing](#), [Internal Changes to Program and/or Subject Area](#) and [Graduation](#) for more information.

## Requirements

- [Honors in Integrative Physiology \(72 units\)](#)
- [Major in Integrative Physiology \(54 units\)](#)

## Honors in Integrative Physiology Requirements

### Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

## Senior Courses

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- BIOL 499 - Research Project
- CHEM 261 - Organic Chemistry I
- ZOOL 241 - Animal Physiology I: Homeostasis
- ZOOL 242 - Animal Physiology II: Intercellular Communication
- ZOOL 344 - Laboratory Exercises in Animal Physiology

### 3 units from:

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

### 3 units from:

- BOT 205 - Fundamentals of Plant Biology
- ENT 220 - Insect Biology
- GENET 270 - Foundations of Molecular Genetics
- IMIN 200 - Infection and Immunity
- MICRB 265 - General Microbiology
- ZOOL 250 - Survey of the Invertebrates
- ZOOL 325 - Comparative Anatomy of the Vertebrates

### 3 units from:

- BIOL 445 - Current Topics in Animal and Cell Physiology
- BOT 445 - Molecular Plant Physiology
- BOT 464 - Plant Functional Genomics
- ZOOL 402 - Current Topics in Developmental Biology
- ZOOL 441 - Current Topics on Homeostasis
- ZOOL 442 - Current Topics in Intercellular Communication
- ZOOL 452 - Topics in Parasitology

### 9 units from:

- any course in [IP List A](#)

## Senior Courses

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- BIOL 499 - Research Project
- CHEM 261 - Organic Chemistry I
- ZOOL 241 - Animal Physiology I: Homeostasis
- ZOOL 242 - Animal Physiology II: Intercellular Communication
- ZOOL 344 - Laboratory Exercises in Animal Physiology

### 3 units from:

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

### 3 units from:

- BOT 205 - Fundamentals of Plant Biology
- ENT 220 - Insect Biology
- GENET 270 - Foundations of Molecular Genetics
- IMIN 200 - Infection and Immunity
- MICRB 265 - General Microbiology
- ZOOL 250 - Survey of the Invertebrates
- ZOOL 325 - Comparative Anatomy of the Vertebrates

### 3 units from:

- BIOL 445 - Current Topics in Animal and Cell Physiology
- BOT 445 - Molecular Plant Physiology
- BOT 464 - Plant Functional Genomics
- ZOOL 402 - Current Topics in Developmental Biology
- ZOOL 441 - Current Topics on Homeostasis
- ZOOL 442 - Current Topics in Intercellular Communication
- ZOOL 452 - Topics in Parasitology

### 9 units from:

- any course in [IP List A](#)

12 units from:

- any course in [IP List B](#) (with at least 6 units at the 400-level)

**Notes:**

1. MATH 134 is strongly recommended; however, it may be replaced with MATH 117 or MATH 144.
2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

**Major in Integrative Physiology Requirements**

**Foundation Courses**

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

**Senior Courses**

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- CHEM 261 - Organic Chemistry I
- ZOOL 241 - Animal Physiology I: Homeostasis
- ZOOL 242 - Animal Physiology II: Intercellular Communication
- ZOOL 344 - Laboratory Exercises in Animal Physiology

3 units from:

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

12 units from:

- any course in [IP List B](#) (with at least 6 units at the 400-level)

**Notes:**

1. MATH 134 is strongly recommended; however, it may be replaced with MATH 117 or MATH 144.
2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.
3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.

**Major in Integrative Physiology Requirements**

**Foundation Courses**

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

**Senior Courses**

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- BIOL 208 - Principles of Ecology
- CHEM 261 - Organic Chemistry I
- ZOOL 241 - Animal Physiology I: Homeostasis
- ZOOL 242 - Animal Physiology II: Intercellular Communication
- ZOOL 344 - Laboratory Exercises in Animal Physiology

3 units from:

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

<p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● BIOL 445 - Current Topics in Animal and Cell Physiology</li> <li>● BOT 445 - Molecular Plant Physiology</li> <li>● BOT 464 - Plant Functional Genomics</li> <li>● ZOOL 402 - Current Topics in Developmental Biology</li> <li>● ZOOL 441 - Current Topics on Homeostasis</li> <li>● ZOOL 442 - Current Topics in Intercellular Communication</li> <li>● ZOOL 452 - Topics in Parasitology</li> </ul> <p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any course in <a href="#">IP List A</a></li> </ul> <p><b>9 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any course in <a href="#">IP List B</a> (with at least 3 units at the 400-level)</li> </ul> <p><b>Notes:</b></p> <hr/> <ol style="list-style-type: none"> <li>1. MATH 134 is strongly recommended; however, it may be replaced with MATH 117 or MATH 144.</li> <li>2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.</li> <li>3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li> </ol>	<p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● BIOL 445 - Current Topics in Animal and Cell Physiology</li> <li>● BOT 445 - Molecular Plant Physiology</li> <li>● BOT 464 - Plant Functional Genomics</li> <li>● ZOOL 402 - Current Topics in Developmental Biology</li> <li>● ZOOL 441 - Current Topics on Homeostasis</li> <li>● ZOOL 442 - Current Topics in Intercellular Communication</li> <li>● ZOOL 452 - Topics in Parasitology</li> </ul> <p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any course in <a href="#">IP List A</a></li> </ul> <p><b>9 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any course in <a href="#">IP List B</a> (with at least 3 units at the 400-level)</li> </ul> <p><b>Notes:</b></p> <hr/> <ol style="list-style-type: none"> <li>1. MATH 134 is strongly recommended; however, it may be replaced with MATH 117 or MATH 144.</li> <li>2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.</li> <li>3. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li> </ol>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee on November 24, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Faculty of Science Department of Biological Sciences
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The Honors program requires a minimum of 15 units at the 400 level. Requiring 6 instead of 3 units from List A fixes this and makes this program compatible with the Major (which requires 6 units from List A).

MATH 134 can be replaced by any Calculus I version offered, and Note 1 for both the Honors and the Major is revised accordingly.

Currently, only some courses offered by the Department of Biological Sciences are included in the program subject area by default, if at the 200-level or higher. The proposed wording broadens the subject area to include by default all 200-level or higher courses offered by the Department.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50447">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=50447</a>	
Current Copy: <b>Removed language</b>	Proposed Copy: <b>New language</b>
<b>Bachelor of Science Molecular, Cellular and</b>	<b>Bachelor of Science Molecular, Cellular and</b>

# Developmental Biology Subject Area

## General Information

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Subject Area Courses

Molecular, Cellular and Developmental Biology subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designator GENET.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission Requirements](#), [Academic Standing](#), [Internal Changes to Program and/or Subject Area](#) and [Graduation](#) for more information.

## Requirements

- [Honors in Molecular, Cellular and Developmental Biology \(72 units\)](#)
- [Major in Molecular, Cellular and Developmental Biology \(54 units\)](#)

# Developmental Biology Subject Area

## General Information

The subject area requirements listed on this page are part of the [Bachelor of Science](#) offered by the Faculty of Science. Students must ensure they are familiar with and follow all [University Regulations](#) and [Faculty of Science Regulations](#) in addition to the program requirements outlined below.

To find a description about this area of study, please visit [Our Degrees](#) of the Faculty of Science webpage.

## Subject Area Courses

Molecular, Cellular and Developmental Biology subject area courses include all courses at the 200-level or higher that satisfy specific requirements or options in the respective Honors or Major requirements, as listed below, and all courses at the 200-level or above with course designators **BIOIN, BIOL, BOT, ENT, GENET, IMIN, MA SC, MICRB, PALEO and ZOOL**.

Subject area courses are used in various subject area GPA calculations. Please see [Faculty of Science Admission Requirements](#), [Academic Standing](#), [Internal Changes to Program and/or Subject Area](#) and [Graduation](#) for more information.

## Requirements

- [Honors in Molecular, Cellular and Developmental Biology \(72 units\)](#)
- [Major in Molecular, Cellular and Developmental Biology \(54 units\)](#)



## Honors in Molecular, Cellular and Developmental Biology Requirements

---

### Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

### Senior Courses

---

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- GENET 270 - Foundations of Molecular Genetics
- MICRB 265 - General Microbiology
- BIOL 499 - Research Project
- CHEM 261 - Organic Chemistry I

#### 3 units from:

---

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

#### 6 units from:

---

- BIOL 208 - Principles of Ecology
- BIOL 221 - Mechanisms of Evolution
- BOT 205 - Fundamentals of Plant Biology
- GENET 301 - Molecular Genetics of the Eukaryotic Cell
- GENET 302 - Genetics of Eukaryotic Chromosomes
- IMIN 200 - Infection and Immunity

## Honors in Molecular, Cellular and Developmental Biology Requirements

---

### Foundation Courses

---

- BIOL 107 - Introduction to Cell Biology
- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I (See Note 1)
- STAT 151 - Introduction to Applied Statistics I

### Senior Courses

---

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- GENET 270 - Foundations of Molecular Genetics
- MICRB 265 - General Microbiology
- BIOL 499 - Research Project
- CHEM 261 - Organic Chemistry I

#### 3 units from:

---

- BIOL 201 - Eukaryotic Cellular Biology
- CELL 201 - Introduction to Molecular Cell Biology

#### 6 units from:

---

- BIOL 208 - Principles of Ecology
- BIOL 221 - Mechanisms of Evolution
- BOT 205 - Fundamentals of Plant Biology
- GENET 301 - Molecular Genetics of the Eukaryotic Cell
- GENET 302 - Genetics of Eukaryotic Chromosomes
- IMIN 200 - Infection and Immunity

<ul style="list-style-type: none"> <li>• ZOOL 303 - Animal Developmental Biology</li> </ul> <p><b>21 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>• any courses from <a href="#">MC&amp;D List A</a> (with at least 3 units at the 400-level)</li> </ul> <p><b>6 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>• any courses from <a href="#">MC&amp;D List B</a> (with at least 3 units at the 400-level):</li> </ul> <p><b>Notes:</b></p> <hr/> <ol style="list-style-type: none"> <li>1. MATH 134 is strongly recommended; however, it may be replaced with <b>MATH 117</b> or <b>MATH 144</b>.</li> <li>2. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li> </ol> <p><b>Major in Molecular, Cellular and Developmental Biology Requirements</b></p> <hr/> <p><b>Foundation Courses</b></p> <hr/> <ul style="list-style-type: none"> <li>• BIOL 107 - Introduction to Cell Biology</li> <li>• BIOL 108 - Introduction to Biological Diversity</li> <li>• CHEM 101 - Introductory University Chemistry I</li> <li>• MATH 134 - Calculus for the Life Sciences I (See Note 1)</li> <li>• STAT 151 - Introduction to Applied Statistics I</li> </ul> <p><b>Senior Courses</b></p> <hr/> <ul style="list-style-type: none"> <li>• BIOCH 200 - Introductory Biochemistry</li> <li>• BIOL 207 - Molecular Genetics and Heredity</li> </ul>	<ul style="list-style-type: none"> <li>• ZOOL 303 - Animal Developmental Biology</li> </ul> <p><b>21 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>• any courses from <a href="#">MC&amp;D List A</a> (with at least 6 units at the 400-level)</li> </ul> <p><b>6 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>• any courses from <a href="#">MC&amp;D List B</a> (with at least 3 units at the 400-level):</li> </ul> <p><b>Notes:</b></p> <hr/> <ol style="list-style-type: none"> <li>1. MATH 134 is strongly recommended; however, it may be replaced with <b>MATH 117, MATH 144, or MATH 154</b>.</li> <li>2. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li> </ol> <p><b>Major in Molecular, Cellular and Developmental Biology Requirements</b></p> <hr/> <p><b>Foundation Courses</b></p> <hr/> <ul style="list-style-type: none"> <li>• BIOL 107 - Introduction to Cell Biology</li> <li>• BIOL 108 - Introduction to Biological Diversity</li> <li>• CHEM 101 - Introductory University Chemistry I</li> <li>• MATH 134 - Calculus for the Life Sciences I (See Note 1)</li> <li>• STAT 151 - Introduction to Applied Statistics I</li> </ul> <p><b>Senior Courses</b></p> <hr/> <ul style="list-style-type: none"> <li>• BIOCH 200 - Introductory Biochemistry</li> <li>• BIOL 207 - Molecular Genetics and Heredity</li> </ul>
--	--

<ul style="list-style-type: none"> <li>● GENET 270 - Foundations of Molecular Genetics</li> <li>● CHEM 261 - Organic Chemistry I</li> </ul> <p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● BIOL 201 - Eukaryotic Cellular Biology</li> <li>● CELL 201 - Introduction to Molecular Cell Biology</li> </ul> <p><b>6 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● BIOL 208 - Principles of Ecology</li> <li>● BIOL 221 - Mechanisms of Evolution</li> <li>● BOT 205 - Fundamentals of Plant Biology</li> <li>● GENET 301 - Molecular Genetics of the Eukaryotic Cell</li> <li>● GENET 302 - Genetics of Eukaryotic Chromosomes</li> <li>● IMIN 200 - Infection and Immunity</li> <li>● MICRB 265 - General Microbiology</li> <li>● ZOOL 303 - Animal Developmental Biology</li> </ul> <p><b>15 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any courses from <a href="#">MC&amp;D List A</a> (with at least 6 units at the 400-level)</li> </ul> <p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any courses from <a href="#">MC&amp;D List B</a></li> </ul> <p><b>Notes:</b></p> <hr/> <ol style="list-style-type: none"> <li>1. MATH 134 is strongly recommended; however, it may be replaced with <b>MATH 117</b> or <b>MATH 144</b>.</li> <li>2. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li> </ol>	<ul style="list-style-type: none"> <li>● GENET 270 - Foundations of Molecular Genetics</li> <li>● CHEM 261 - Organic Chemistry I</li> </ul> <p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● BIOL 201 - Eukaryotic Cellular Biology</li> <li>● CELL 201 - Introduction to Molecular Cell Biology</li> </ul> <p><b>6 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● BIOL 208 - Principles of Ecology</li> <li>● BIOL 221 - Mechanisms of Evolution</li> <li>● BOT 205 - Fundamentals of Plant Biology</li> <li>● GENET 301 - Molecular Genetics of the Eukaryotic Cell</li> <li>● GENET 302 - Genetics of Eukaryotic Chromosomes</li> <li>● IMIN 200 - Infection and Immunity</li> <li>● MICRB 265 - General Microbiology</li> <li>● ZOOL 303 - Animal Developmental Biology</li> </ul> <p><b>15 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any courses from <a href="#">MC&amp;D List A</a> (with at least 6 units at the 400-level)</li> </ul> <p><b>3 units from:</b></p> <hr/> <ul style="list-style-type: none"> <li>● any courses from <a href="#">MC&amp;D List B</a></li> </ul> <p><b>Notes:</b></p> <hr/> <ol style="list-style-type: none"> <li>1. MATH 134 is strongly recommended; however, it may be replaced with <b>MATH 117, MATH 144, or MATH 154</b>.</li> <li>2. Students should consult the Department of Biological Sciences for advice about course selection throughout the program.</li> </ol>
---	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

Approved by Science Undergraduate Programs Committee on November 24, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	Mathematical and Statistical Sciences (MSS)
Contact Person:	Christoph Frei, MSS Chair, msschair@ualberta.ca
Level of change: (choose one only)	<input type="checkbox"/> Undergraduate
	<input checked="" type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

To make our course-based biostatistics master's program more attractive, we will introduce an integrated internship component, along with two practically relevant courses.

### Calendar Copy

URL in current Calendar (or "New page"): <a href="https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=48228">https://calendar.ualberta.ca/preview_program.php?catoid=39&amp;poid=48228</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> New language
<p><b>Master of Science with a specialization in Biostatistics (Mathematical and Statistical Sciences): Course-based MSc</b></p> <p>Students are required to complete a minimum of 30 units in graduate-level coursework, including a 6-unit capping project, <del>and a practicum requirement.</del></p> <p>Coursework (24 units)</p> <ul style="list-style-type: none"> <li>• <a href="#">STAT 532</a></li> <li>• <a href="#">STAT 562</a></li> </ul>	<p><b>Master of Science with a specialization in Biostatistics (Mathematical and Statistical Sciences): Course-based MSc</b></p> <p>Students are required to complete a minimum of 30 units in graduate-level coursework, including a 6-unit <b>internship or</b> capping project.</p> <p>Coursework (24 units)</p> <ul style="list-style-type: none"> <li>• <b>STAT 514</b></li> <li>• <b>STAT 515</b></li> <li>• <a href="#">STAT 532</a></li> <li>• <a href="#">STAT 562</a></li> </ul>

<ul style="list-style-type: none"> <li>● <u>STAT 566 OR STAT 664</u></li> <li>● At least <b>two</b> of             <ul style="list-style-type: none"> <li>○ <u>SPH 597</u> OR <u>SPH 596</u> and a 1-unit SPH course in Epidemiology (<u>SPH 561</u> is recommended)</li> <li>○ <u>SPH 696</u></li> </ul> </li> <li>● <b>Three</b> of the following             <ul style="list-style-type: none"> <li>○ <u>STAT 561</u></li> <li>○ <u>STAT 568</u></li> <li>○ <u>STAT 575</u></li> <li>○ <u>STAT 578</u></li> <li>○ Other approved options may be taken.</li> </ul> </li> <li>● All coursework must be chosen in consultation with the supervisor</li> <li>● All coursework to be counted towards the program requirements must be approved by the <b>Associate Chair (Graduate Studies)</b></li> <li>● Additional coursework may be required.</li> </ul> <p><b>Practicum Requirement</b></p> <p><b>Students must complete a 39-hour practicum at the Training Consulting Centre (or equivalent).</b></p> <p><b>Capping project (6 units)</b></p> <ul style="list-style-type: none"> <li>● <b>STAT 900 A/B</b></li> </ul>	<ul style="list-style-type: none"> <li>● <u>STAT 566 OR STAT 664</u></li> <li>● At least <b>two</b> of             <ul style="list-style-type: none"> <li>○ <u>SPH 597</u> OR <u>SPH 596</u> and a 1-unit SPH course in Epidemiology (<u>SPH 561</u> is recommended)</li> <li>○ <u>SPH 696</u></li> </ul> </li> <li>● <b>One</b> of the following             <ul style="list-style-type: none"> <li>○ <u>STAT 561</u></li> <li>○ <u>STAT 568</u></li> <li>○ <u>STAT 575</u></li> <li>○ <u>STAT 578</u></li> <li>○ Other approved options may be taken.</li> </ul> </li> <li>● All coursework must be chosen in consultation with the supervisor</li> <li>● All coursework to be counted towards the program requirements must be approved by the <b>Academic Director of Graduate Studies</b></li> <li>● Additional coursework may be required.</li> </ul> <p><b>Internship or Capping project (6 units)</b></p> <p><b>Students must complete either (a) a relevant biostatistics internship enrolling in STAT 903 or (b) a capping project enrolling in <u>STAT 900 A/B</u>.</b></p>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

Approved by the Faculty of Science Graduate Programs Committee on November 29, 2023.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.

Faculty (& Department or Academic Unit):	Mathematical and Statistical Sciences (MSS)
Contact Person:	Christoph Frei, MSS Chair, msschair@ualberta.ca
Level of change: (choose one only)	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

We propose to introduce two new practically relevant courses for our course-based biostatistics master's program. By teaching the statistical knowledge and skills necessary for clinical trials, these two courses will prepare our students for internships that they are taking as part of their master's program. As the courses will be developed in partnership with an external company that also provides relevant internships to the students in the biostatistics master's program, there are no similar such courses. A third new proposed course is related to the internship component of the biostatistics master's program.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
<p><b>NEW COURSE</b></p>	<p><b>Subject &amp; Number</b> <b>STAT 514</b></p> <p><b>Title</b> <b>Statistics for Clinical Trials I</b></p> <p><b>Course Career</b> <b>Graduate</b></p> <p><b>Units</b> <b>3</b></p> <p><b>Approved Hours</b> <b>3-0-0</b></p> <p><b>Fee index</b> <b>6</b></p> <p><b>Faculty</b> <b>Science</b></p> <p><b>Department</b> <b>Mathematical and Statistical Sciences</b></p> <p><b>Typically Offered</b> <b>first term</b></p> <p><b>Description</b></p> <p>This course is designed to equip students with essential statistical knowledge and skills necessary for the successful clinical trial design and analysis. This course covers a wide range of statistical topics specific to clinical trials, including intention-to-treat versus efficacy trials, principles of sampling and exclusion, methods of allocation and techniques of randomization, parallel versus cross over design, cluster randomization designs, statistical analysis planning, external and internal validation, and</p>



	<p>reports of statistical findings. Additionally, the course will explore other selected topics related to logistical issues in the management of clinical trials.</p> <p>Prerequisite: consent of the instructor. Notes: Students outside of the course-based MSc with a specialization in Biostatistics need permission from the Department to enroll in this course. Thesis-based graduate students in Mathematical and Statistical Sciences cannot take this course for credit.</p>
<p><b>NEW COURSE</b></p>	<p><b>Subject &amp; Number</b> STAT 515</p> <p><b>Title</b> Statistics for Clinical Trials II</p> <p><b>Course Career</b> Graduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-0</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> second term</p> <p><b>Description</b></p> <p>This course is a continuation of Statistics for Clinical Trials I, with a focus on statistical computation and data analysis techniques specifically tailored for clinical trials. Students will work with the R and SAS statistical programming languages to gain a comprehensive understanding of these methods in the clinical trials context. The primary goal is to equip graduate students with the statistical skills required for data analysis in clinical trials. Successful students will become proficient in using statistical computational tools to analyze real-world clinical datasets and will be exposed to advanced statistical techniques and best practices for data storage, management, and analysis. Key statistical topics covered in this course include sampling designs, chi-square tests, linear models, mixed-effects models for repeated measurements and survival analysis.</p> <p>Prerequisite: STAT 514. Notes: Students outside of</p>

	<p>the course-based MSc with a specialization in Biostatistics need permission from the Department to enroll in this course. Thesis-based graduate students in Mathematical and Statistical Sciences cannot take this course for credit.</p>
<p><b>NEW COURSE</b></p>	<p><b>Subject &amp; Number</b> STAT 903</p> <p><b>Title</b> Internship in Biostatistics</p> <p><b>Course Career</b> Graduate</p> <p><b>Units</b> 6</p> <p><b>Approved Hours</b> unassigned</p> <p><b>Fee index</b> 12</p> <p><b>Faculty</b> Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> either term</p> <p><b>Description</b></p> <p>Students will work on statistical clinical programming tasks through paid internships. These internships may be provided by an external company in partnership with the University of Alberta.</p> <p>Prerequisite: STAT 515.</p> <p>Notes: Enrolment in this course needs permission from the Department. Only students in the course-based MSc with a specialization in Biostatistics can get credit for this course. This course can be taken more than once for credit with approval by the Department.</p>

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date.</p> <p>Approved by the Faculty of Science Graduate Programs Committee on November 29, 2023.</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <p>Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.</p>

Faculty (& Department or Academic Unit):	Faculty of Science, Department of Mathematical and Statistical Sciences
Contact Person:	Nicolas Guay, Associate Chair
Level of change: (choose one only) [?]	<input type="checkbox"/> Undergraduate
	<input checked="" type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Very low enrolment in our graduate courses is a problem every year. Some of the core courses in our Ph.D. programs have been cross-listed with 400-level undergraduate courses to alleviate that problem: MATH 417/514, MATH 418/516, MATH 429/581 and MATH 428/582. Other courses are sometimes initially scheduled in the spring when teaching assignments are made only to be canceled later due to very low enrolment. This is upsetting for the students and the instructors assigned to teach those courses. The present proposal is to create a new graduate course, MATH 583, that would be cross-listed with a new undergraduate course, MATH 483, in the hope to help alleviate the problem of low enrollment.

The title for the proposed new course is Topics in Algebra. This is the same title as MATH 681 and MATH 682. The goal is to replace these partially and to replace entirely MATH 412/512 (Algebraic Number Theory) and MATH 530 (Algebraic Topology), while acknowledging that there are two different types of topics courses: some require less background and are accessible to talented advanced undergraduate students while others require a graduate course like MATH 581 or MATH 582 as a prerequisite. In the future, the hope is to be able to offer every year either MATH 581, MATH 582 and MATH 483/583 twice, or MATH 581, MATH 582, MATH 483/583 once and MATH 681 once. MATH 412/512, MATH 530 and MATH 682 will not be scheduled in the future and will eventually be removed from the course catalogue.

## Course Template

<b>Current:</b>	<b>Proposed:</b> New course
	<p><b>Subject &amp; Number</b> MATH 583</p> <p><b>Title</b> Topics in Algebra</p> <p><b>Course Career</b> Graduate</p> <p><b>Units</b> 3</p> <p><b>Approved Hours</b> 3-0-0</p> <p><b>Fee index</b> 6</p> <p><b>Faculty</b> Faculty of Science</p> <p><b>Department</b> Mathematical and Statistical Sciences</p> <p><b>Typically Offered</b> Either term</p> <p><b>Description</b> This course will cover advanced algebraic topics not taught in regular courses in the curriculum or will provide a more in-depth continuation of an existing course. Prerequisite: at least one of MATH 326, MATH 327, MATH 328, MATH 329, or equivalent. Note: Upon approval by the Department of Mathematical and Statistical Sciences, this course may be taken for credit multiple times.</p>

## Reviewed/Approved by:

<p>REQUIRED: Faculty Council (or delegate) and approval date.</p> <p>Approved by the Faculty of Science Graduate Programs Committee on November 29, 2023.</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <p>Approved by the Department Council of Mathematical and Statistical Sciences on November 21, 2023.</p>



		<b>Rationale</b>
Faculty (& Department or Academic Unit):	Office of the Registrar	The To Be Deleted list identifies courses that have not been offered for more than 6 years. For the 2024-2025 academic year, courses on the To Be Deleted list were last offered in (or prior to) the 2017-2018 academic year. Faculties were also given the opportunity to put forward any courses that are currently on reserve for deletion. The Office of the Registrar has consulted with Faculties and Departments, and the list provided contains only the courses that Faculties and Departments have indicated for deletion.
Contact Person:	Jesse Luyendyk (jluyendy@ualberta.ca)	
Level of change:	Undergraduate and Graduate	
For which term will this change take effect?	September 1, 2024	

**Action:** All of the courses in the list will be deleted.

**Courses**

Faculty	Department	Course	Name
Arts	Art & Design	HADVC 226	Gender, Sexuality and Visual Culture
Arts	Art & Design	HADVC 326	Feminist Art: In Theory and Practice
Arts	Art & Design	HADVC 346	Introduction to Critical Theory in the History of Art, Design, and Visual Culture
Arts	Art & Design	HADVC 677	Graduate Research Seminar
Arts	Drama	DRAMA 607	Dramaturgy I
Arts	Economics	ECON 532	Labor Economics II
Arts	Economics	ECON 553	Economics of Taxation
Arts	Economics	ECON 672	Topics in Industrial Economics
Arts	English and Film Studies	ENGL 424	Studies in the History of Books
Arts	English and Film Studies	ENGL 486	Studies in Computer Technologies and Culture
Arts	English and Film Studies	WRITE 395	Intermediate Creative Writing: Fiction
Arts	English and Film Studies	WRS 204	Introduction to Technical Writing
Arts	English and Film Studies	WRS 497	Special Topics in Writing Studies
Arts	English and Film Studies	WRS 500	Academic Writing
Arts	English and Film Studies	WRS 605	Issues in Second Language Writing
Arts	History, Classics, & Religion	CLASS 376	Early Civilization I
Arts	History, Classics, & Religion	CLASS 380	History of Palestine
Arts	History, Classics, & Religion	CLASS 502	Directed Study
Arts	History, Classics, & Religion	HIST 229	Britain and Its Peoples in the Modern Era
Arts	History, Classics, & Religion	HIST 287	The Chinese in Canada and Canadians in China
Arts	History, Classics, & Religion	HIST 342	Political and Social Revolution in Latin America
Arts	History, Classics, & Religion	HIST 348	History of the Contemporary Middle East
Arts	History, Classics, & Religion	HIST 391	History of Technology
Arts	History, Classics, & Religion	HIST 435	Gender and the Colonial Encounter
Arts	History, Classics, & Religion	HIST 436	Postcolonialism and History
Arts	History, Classics, & Religion	HIST 453	Topics in 20th-Century America
Arts	History, Classics, & Religion	HIST 495	History, Discourse, and Practice of Sustainability
Arts	History, Classics, & Religion	HIST 635	Gender and the Colonial Encounter
Arts	History, Classics, & Religion	HIST 636	Postcolonialism and History
Arts	Media and Technology Studies	COMM 508	Culminating Project
Arts	Media and Technology Studies	INT D 425	Topics in Interdisciplinary Studies

Arts	Media and Technology Studies	MEAS 200	Introduction to Middle Eastern and African Studies
Arts	Media and Technology Studies	MEAS 300	Themes and Topics I
Arts	Media and Technology Studies	MEAS 330	Cultural Representations of Post-coloniality
Arts	Media and Technology Studies	MEAS 400	Topics in the Study of the Middle East and Africa
Arts	Media and Technology Studies	MEAS 475	Methodology in Middle Eastern and African Studies
Arts	Media and Technology Studies	MEAS 480	Directed Reading in Middle Eastern and African Studies
Arts	Media and Technology Studies	MEAS 499	Honors Essay in Middle Eastern and African Studies
Arts	Media and Technology Studies	MEAS 500	Topics in Comparative Interdisciplinary Research in Middle Eastern and African Studies
Arts	Media and Technology Studies	MEAS 521	Directed Reading in Middle Eastern and African Studies Research
Arts	Modern Lang & Cultural Studies	C LIT 522	Directed Reading Course II
Arts	Modern Lang & Cultural Studies	FREN 545	Contemporary Cinema in French
Arts	Modern Lang & Cultural Studies	FREN 563	Topics in Nineteenth-Century Literature
Arts	Modern Lang & Cultural Studies	FREN 564	Topics in Twentieth-Century Literature
Arts	Modern Lang & Cultural Studies	FREN 565	Caribbean Culture
Arts	Modern Lang & Cultural Studies	FREN 568	Topics in Québec/French Canadian Literature
Arts	Modern Lang & Cultural Studies	FREN 576	Linguistics Applied to French
Arts	Modern Lang & Cultural Studies	GERM 320	From Masterpieces to Bestsellers
Arts	Modern Lang & Cultural Studies	GERM 345	Remembering and Representing the Holocaust
Arts	Modern Lang & Cultural Studies	GERM 417	German Sociolinguistics
Arts	Modern Lang & Cultural Studies	GERM 453	Cultural and Literary Theories
Arts	Modern Lang & Cultural Studies	GERM 455	Media and Image
Arts	Modern Lang & Cultural Studies	GERM 653	Cultural and Literary Theories
Arts	Modern Lang & Cultural Studies	GERM 654	Gender and Sexuality
Arts	Modern Lang & Cultural Studies	GERM 655	Media and Image
Arts	Modern Lang & Cultural Studies	GERM 698	Topics in Germanic Linguistics
Arts	Modern Lang & Cultural Studies	GERM 699	Topics in German Literature and Culture
Arts	Modern Lang & Cultural Studies	INT D 439	Ukrainian Dance
Arts	Modern Lang & Cultural Studies	ITAL 415	Studies in Italian Literature
Arts	Modern Lang & Cultural Studies	LA ST 320	Amerindian Cultures
Arts	Modern Lang & Cultural Studies	MLCS 475	X-Rated: Sex on Screen
Arts	Modern Lang & Cultural Studies	MLCS 575	X-Rated: Sex on Screen
Arts	Modern Lang & Cultural Studies	POLSH 407	Business Polish
Arts	Modern Lang & Cultural Studies	POLSH 444	English-Polish Translation
Arts	Modern Lang & Cultural Studies	RUSS 698	Topics in Russian Linguistics
Arts	Modern Lang & Cultural Studies	RUSS 699	Topics in Russian Literature and Culture
Arts	Modern Lang & Cultural Studies	SLAV 568	Nikolai Gogol/Mykola Hohol'
Arts	Modern Lang & Cultural Studies	SLAV 599	Directed Reading
Arts	Modern Lang & Cultural Studies	SPAN 332	The Culture of Food
Arts	Modern Lang & Cultural Studies	SPAN 335	The Spanish Caribbean
Arts	Modern Lang & Cultural Studies	SPAN 440	Topics in Spanish Peninsular Literature and Culture
Arts	Modern Lang & Cultural Studies	SPAN 444	Hispanic Drama
Arts	Modern Lang & Cultural Studies	SPAN 505	Exercises in Translation: Spanish to English
Arts	Modern Lang & Cultural Studies	SPAN 525	Hispanic Filmmakers
Arts	Modern Lang & Cultural Studies	SPAN 535	Topics in Hispanic Culture
Arts	Modern Lang & Cultural Studies	SPAN 542	Hispanic Drama

Arts	Modern Lang & Cultural Studies	SPAN 552	Indigenous America
Arts	Modern Lang & Cultural Studies	SPAN 555	Literature, War, and Revolution
Arts	Modern Lang & Cultural Studies	SPAN 556	Constructing the Nation
Arts	Modern Lang & Cultural Studies	SPAN 560	Self Portraits in Writing
Arts	Modern Lang & Cultural Studies	SPAN 575	Spanish in Society
Arts	Modern Lang & Cultural Studies	SPAN 576	The Acquisition of Spanish
Arts	Modern Lang & Cultural Studies	UKR 327	Early Ukrainian-Canadian Culture
Arts	Modern Lang & Cultural Studies	UKR 645	Studies in Ukrainian Literary Criticism
Arts	Modern Lang & Cultural Studies	UKR 697	Topics in Ukrainian Folklore
Arts	Music	MUSIC 149	Jazz Ensembles
Arts	Music	MUSIC 207	Instruments for Children
Arts	Music	MUSIC 433	The Organ and Its Literature I
Arts	Music	MUSIC 434	The Organ and Its Literature II
Arts	Music	MUSIC 438	Poetry and Performance of the German Lied
Arts	Music	MUSIC 449	Jazz Ensembles
Arts	Music	MUSIC 538	Poetry and Performance of the German Lied
Arts	Music	MUSIC 549	Jazz Ensembles
Arts	Music	MUSIC 573	Advanced Studies in Ethnomusicology: The Persianate World
Arts	Music	MUSIC 608	Seminar in 20th-Century Music
Arts	Philosophy	PHIL 227	Conceptual Development in Modern Logic
Arts	Philosophy	PHIL 411	Philosophy of Space and Time
Arts	Philosophy	PHIL 453	Philosophy of History
Arts	Political Science	INT D 393	Political Sociology
Arts	Political Science	POL S 365	Canadian Foreign Policy
Arts	Political Science	POL S 452	Politics in the Middle East and North Africa
Arts	Psychology	PSYCH 412	Quantitative Methods in Sociocultural Psychology
Arts	Sociology	SOC 524	Advanced Field Placement in Criminal Justice
Arts	Sociology	SOC 550	Seminar in Population and Life Course Dynamics
Arts	Sociology	SOC 656	Topics in Environmental Sociology
Arts	Sociology	SOC 672	Social Structure and Public Policy
Arts	Sociology	SOC 676	Globalization, Religion and Fundamentalisms
Augustana Faculty	AU Science	AUBIO 337	Histology of Reproduction and Sensation
Augustana Faculty	AU Science	AUBIO 397	Vertebrate Physiology
Augustana Faculty	AU Science	AUBIO 485	Selected Topics in Biochemistry
Augustana Faculty	AU Science	AUBIO 495	Mammalogy
Augustana Faculty	AU Science	AUCHE 211	Communicating Chemistry
Augustana Faculty	AU Science	AUCHE 305	Selected Topics in Chemistry
Augustana Faculty	AU Science	AUCSC 210	Algorithm Analysis and Data Structures
Augustana Faculty	AU Science	AUCSC 398	Selected Topics in Computing Science
Augustana Faculty	AU Science	AUCSC 498	Selected Topics in Computing Science
Augustana Faculty	AU Science	AUCSC 499	Selected Topics in Computing Science
Augustana Faculty	AU Science	AUENV 260	Environmental Studies Practicum
Augustana Faculty	AU Science	AUENV 261	Environmental Science Practicum
Augustana Faculty	AU Science	AUGEO 301	Directed Studies
Augustana Faculty	AU Science	AUGEO 302	Directed Reading

Augustana Faculty	AU Science	AUGEO 343	Expedition in the Canadian North
Augustana Faculty	AU Science	AUGEO 401	Directed Studies
Augustana Faculty	AU Science	AUGEO 402	Directed Reading
Augustana Faculty	AU Science	AUPHY 310	Classical Mechanics
Augustana Faculty	AU Science	AUPHY 350	Electromagnetic Theory
Augustana Faculty	AU Social Sciences	AUPED 185	Introduction to Ski Touring
Augustana Faculty	AU Social Sciences	AUPED 285	Introduction to Ski Touring
Business	Department of Finance	FIN 502	Introduction to Financial Valuation
Business	Department of Finance	FIN 503	Introduction to Corporate Finance
Business	Marketing, Business Econ & Law	MARK 797	Current Research in Marketing
Business	Strategy, Entrepreneurship & Mgmt	SEM 708	Seminar in Industrial Relations Foundations
Education	Education	EDU 593	Special Seminar in Educational Studies: Selected Topics
Education	Educational Policy Studies	EDPS 310	Managing the Learning Environment
Education	Educational Policy Studies	EDPS 515	Sexual and Gender Minorities in Education and Culture
Education	Educational Policy Studies	EDPS 522	Citizenship Education: Global Contexts
Education	Educational Policy Studies	EDPS 554	The Philosophy of Educational Research
Education	Educational Psychology	EDPY 397	Educational Psychology Seminars
Education	Educational Psychology	EDPY 531	Developing an Effective School Counselling Program
Education	Educational Psychology	EDPY 540	Counselling Psychology: Field Placement
Education	Educational Psychology	EDPY 543	Mental Health Testing in Counselling
Education	Educational Psychology	EDPY 563	Assistive Technology
Education	Educational Psychology	EDPY 900	Research/Capping Project
Education	Elementary Education	EDEL 328	Music Literacy: The Child
Education	Elementary Education	EDEL 395	Group Project I Elementary Education
Education	Elementary Education	EDEL 400	Design of Elementary Art Curriculum
Education	Elementary Education	EDEL 406	Diagnostic Teaching of Reading and Writing
Education	Elementary Education	EDEL 425	The Child's Voice: Techniques for the Children's Choir
Education	Elementary Education	EDEL 427	Music Creativity: Teaching and Learning
Education	Elementary Education	EDEL 445	Teaching Second Languages in the Elementary School
Education	Elementary Education	EDEL 458	Practical Experience with Curriculum Models in Early Childhood Education
Education	Elementary Education	EDEL 499	Synthesis and Integration in Elementary Education
Education	Elementary Education	EDEL 511	Leadership in Language Arts
Education	Elementary Education	EDEL 519	Assessment of the Language Arts
Education	Elementary Education	EDEL 535	Socio-cultural Aspects of Second Language Learning and Teaching
Education	Elementary Education	EDEL 541	Introduction to Resource Organization and Management
Education	Elementary Education	EDEL 566	Ethnographic Research Methodology in Education
Education	Elementary Education	EDEL 570	Instructional Practices in the Elementary Classroom
Education	Elementary Education	EDEL 571	Models of Teaching
Education	Elementary Education	EDEL 667	Interpretive Inquiry
Education	Elementary Education	EDES 361	Introduction to Curriculum and Instruction in Middle Years Art
Education	Elementary Education	EDES 404	Special Topics in Art Process
Education	Elementary Education	EDES 502	Conference Seminar
Education	Elementary Education	EDES 503	Conference Seminar
Education	Elementary Education	EDES 504	Special Topics in Art Process
Education	Elementary Education	EDES 506	Searching Issues of Pedagogy in Practice: Race, Gender and Culture



Education	Elementary Education	EDES 548	Directed Study in School Library Research
Education	English as a 2nd Lang Prog-Ext	EAP 150	English for Academic Purposes
Education	Secondary Education	EDES 348	Reading in the Junior and Senior High School
Education	Secondary Education	EDSE 400	Conference Seminar
Education	Secondary Education	EDSE 478	Digital Technologies Integrated into the Curriculum
Education	Secondary Education	EDSE 512	Research Project in Secondary Education
Education	Secondary Education	EDSE 530	Teaching Language and Writing to Adolescents in a Multimedia World
Education	Secondary Education	EDSE 567	Science, Technology, Society and Environment: Implications for Teaching
Education	Secondary Education	EDSE 578	Digital Technologies Integrated into the Curriculum
Education	Secondary Education	EDSE 621	Phenomenological Writing
Education	Secondary Education	EDSE 629	Reading and Teaching Print and Media Texts with Adolescents
Education	Secondary Education	EDSE 669	Curriculum and Resource Development in Second Languages
Engineering	Chemical&Materials Engineering	CH E 420	Mixing in the Process Industries
Engineering	Chemical&Materials Engineering	CH E 584	Molecular Sieve Technology
Engineering	Chemical&Materials Engineering	MAT E 221	Powder Fabrication and Processing
Engineering	Chemical&Materials Engineering	MAT E 301	Materials Engineering Thermodynamics
Engineering	Chemical&Materials Engineering	MAT E 665	Materials Applications of Transmission Electron Microscopy
Engineering	Chemical&Materials Engineering	MAT E 738	Process Metallurgy
Engineering	Civil & Environmental Eng	CIV E 499	Special Topics in Civil Engineering Design
Engineering	Civil & Environmental Eng	CIV E 604	Construction Law
Engineering	Civil & Environmental Eng	CIV E 692	Tunnelling
Engineering	Civil & Environmental Eng	CIV E 698	Petroleum Geomechanics
Engineering	Civil & Environmental Eng	MIN E 640	Simulation of Industrial Systems
Engineering	Civil & Environmental Eng	PET E 642	Miscible Gas Injection Processes
Engineering	Electrical & Computer Engg	ECE 461	Digital Control
Engineering	Engineering	NANO 500	Nanotechnology and Society
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	DAC 197	Selected Topics in Dance
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	KIN 410	A Systems Neuroscience Approach to Human Motor Behaviour
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	KRLS 335	Volunteers Management in Recreation, Sport and Physical Activity
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	PAC 101	Principles and Concepts of Physical Activity
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	PAC 113	Instruction of the Basics of Football
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	PAC 131	Instruction of the Basics of Badminton
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	PAC 174	Instruction of the Basics of Athletics (Track and Field)
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	PAC 310	Coaching Aquatics
Kinesiology, Sport, & Rec	Kinesiology, Sport, & Rec	PAC 318	Coaching Soccer
Law	Law	LAW 545	The Law of Fiduciary Obligation
Medicine and Dentistry	Biochemistry	BIOCH 402	Research Skills in Biochemistry
Medicine and Dentistry	Med Microbiology & Immun	MMI 100	Microbes in the News
Medicine and Dentistry	Medicine & Dentistry	MED 400	Two-Week Medical Elective
Medicine and Dentistry	Medicine & Dentistry	MED 401	Four-Week Medical Elective
Medicine and Dentistry	Medicine & Dentistry	MED 402	Eight-Week Medical Elective
Medicine and Dentistry	Medicine & Dentistry	MED 403	Twelve-Week Medical Elective
Medicine and Dentistry	Neuroscience and Mental Health	NEURO 443	Neuroendocrine Concepts
Medicine and Dentistry	Oncology	ONCOL 510	Issues in Psychosocial Oncology
Medicine and Dentistry	Oncology	ONCOL 580	Molecular Imaging: Tracers, Targets, Techniques

Medicine and Dentistry	Pharmacology	PMCOL 508	Molecular Pharmacology
Medicine and Dentistry	Pharmacology	PMCOL 512	Pharmacology of the Synapse
Medicine and Dentistry	Pharmacology	PMCOL 514	Biophysical Aspects of Ion Channel Pharmacology
Medicine and Dentistry	Psychiatry	PSYCI 688	Graduate Seminar
Medicine and Dentistry	Radiology & Diagnostic Imag	RADDI 521	Physics of Nuclear Medicine Imaging
Faculty of Native Studies	Native Studies	NS 222	Dene Chanie: Dene Leadership That Path That We Walk
Nursing	Nursing	INT D 540	Principles of Qualitative Inquiry
Nursing	Nursing	INT D 609	Synthesizing Knowledge
Nursing	Nursing	INT D 660	Selected Topics in PhD Studies in Nursing
Nursing	Nursing	NURS 113	Pathophysiology
Nursing	Nursing	NURS 341	Using and Interpreting Statistics for Health Research
Nursing	Nursing	NURS 461	Nursing Practice VII, Internship Route
Nursing	Nursing	NURS 501	Advanced Nursing Practice in the Canadian Context
Nursing	Nursing	NURS 514	Community and Organization Assessment
Nursing	Nursing	NURS 574	Health Practice in Communities and Organizations
Nursing	Nursing	NURS 581	Advanced Practicum in Child Health
Nursing	Nursing	NURS 584	Advanced Theory and Practicum in Community / Health Care Organizations
Nursing	Nursing	NURS 592	International and Intercultural Perspectives in Health and Nursing
Nursing	Nursing	NURS 610	Contemporary Views of Nursing Science
Nursing	Nursing	SC INF 217	Introduction aux sciences infirmières
Nursing	Nursing	SC INF 218	Introduction à la pratique infirmière
Nursing	Nursing	SC INF 494	Synthèse des connaissances en sciences infirmières
Rehabilitation Medicine	Physical Therapy	PTHER 401	Clinical Placement
Rehabilitation Medicine	Physical Therapy	PTHER 421	Professional Physical Therapy Practice in Canada II
Rehabilitation Medicine	Physical Therapy	PTHER 430	Professional Physical Therapy Practice in Canada III
Rehabilitation Medicine	Physical Therapy	PTHER 520	Clinical Placement III
Faculté Saint-Jean	Saint-Jean	ALS 130	Pratique avancée de l'expression et de la compréhension orales
Faculté Saint-Jean	Saint-Jean	ESPA 100	Espagnol langue seconde
Faculté Saint-Jean	Saint-Jean	ETCAN 320	Les francophonies canadiennes I: implantation et institutionnalisation
Faculté Saint-Jean	Saint-Jean	FR ED 101	French for French as a Second Language (FSL) Teachers I
Faculté Saint-Jean	Saint-Jean	FR ED 102	French for French as a Second Language (FSL) Teachers II
Faculté Saint-Jean	Saint-Jean	FR ED 103	French for French as a Second Language (FSL) Teachers III
Faculté Saint-Jean	Saint-Jean	FR ED 201	Le français de la salle de classe
Faculté Saint-Jean	Saint-Jean	FR ED 210	Apprentissage du français par l'exploration du monde virtuel
Faculté Saint-Jean	Saint-Jean	FR ED 301	Rédaction professionnelle avancée
Faculté Saint-Jean	Saint-Jean	FRANC 140	Communication orale et écrite
Faculté Saint-Jean	Saint-Jean	FRANC 400	Initiation à la traduction anglais-français
Faculté Saint-Jean	Saint-Jean	FRANC 432	Stylistique comparée du français et de l'anglais
Faculté Saint-Jean	Saint-Jean	LINGQ 475	Stylistique du français
Faculté Saint-Jean	Saint-Jean	SC PO 428	Gouvernement et politique des provinces
Science	Mathematical & Statistical Sci	MATH 438	Intermediate Partial Differential Equations II
Science	Mathematical & Statistical Sci	MATH 642	Abstract Harmonic Analysis
Science	Physics	PHYS 543	Condensed Matter Physics II
Science	Physics	PHYS 696	Black Hole Physics
Science	Psychology	PSYCH 475	Biological Bases of Behavior

St Stephen's College	St Stephen's College	CH RTP 117	New Issues in Theology
St Stephen's College	St Stephen's College	CH RTP 301	Hebrew Scriptures Basics
St Stephen's College	St Stephen's College	CH RTP 313	Topics in Applied Christian Ethics
St Stephen's College	St Stephen's College	CH RTP 553	Metaphor in the Arts and Spirituality
St Stephen's College	St Stephen's College	CH RTP 771	Inquiry, Evaluation and Search for Knowledge



**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:** To approve the addition of the CASPer situational judgement test to the admissions requirements for the Master of Science in Physical Therapy Program

<b>DATE</b>	11 January 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Provost and Vice-President (Academic)

**MOTION:**

THAT the GFC Programs Committee approve, with delegated authority from the General Faculties Council, the proposed changes to the Admissions Requirement for Master of Science in Physical Therapy, for inclusion in the 2024-2025 *University Calendar*.

**EXECUTIVE SUMMARY:**

In recent years the Department made changes to reduce the emphasis on GPA and place greater weight on the non-academic elements assessed in the MMI for the admission offers. But this does not address the initial interview selection which is still based on GPA alone. As GPA continues to trend upwards it can be anticipated that it will become even more difficult to differentiate applicants for the initial interview selection.

Relying on incoming GPA for initial interview selection and subsequent admissions decisions is becoming increasingly challenging because of the lack of clear differentiation among applicants.

- GPA has risen over the past few years and is a trend evident in all Physical Therapy schools across the country. For example, the interview GPA cutoff for Alberta applicants has increased from 3.64 in 2020 to 3.80 in 2023. The GPA cut-off for out-of-province applicants for the past two years was 4.0. GPA Alberta applicants could reach 4.0 or close to 4.0 in the near future.
- Separation of applicants is now being made using 0.01 decimal places. For example, applicants with a GPA of 3.8 were invited for an interview whereas those at 3.79 were not.
- Selection of out-of-province applicants for an interview is now being made using a random selection process. For example, 84 out-of-province applicants applied this year with a 4.0 GPA and only 40 interview spots are available for out-of-province applications.

The rising GPA also puts selection for an admissions interview further out of reach for many in disadvantaged and marginalized groups. Reliance on GPA and standardised achievement tests disadvantage applications from minoritized groups and admission to medical schools (and PT schools) is not reflective of the Canadian population (Prideaux et al 2011, Khan et al 2020, Pitre et al 2020). The rising GPA for the initial interview selection may actually decrease the diversity of our students. This is not congruent with the Department’s and University’s commitment to increasing the diversity and representation of the student body to better reflect our community at large

The historical experience with the student cohorts over the past 15 years also indicates that admitted students with a GPA of 3.5 or above are more than capable of succeeding academically and clinically

**GOVERNANCE OUTLINE**



**ITEM NO. 5**

in the program. But increasingly, many capable applicants with a GPA of 3.5 or above are not even being offered an interview. There is a case for saying all students above a minimum GPA cut-off (e.g. 3.5 ) are capable of being successful in our program and should be eligible for an interview.

All these factors are strong drivers to change the current admissions process and use additional tools for the initial interview selection and subsequent admissions decisions. The risk of adding the CASPer is low, the majority of Physical Therapy schools across Canada (thirteen out of fifteen) are now using the CASPer Test in their initial screening and selection of applicants, and it is also used in most health sciences programs on campus and across the country. The CASPer is a standardized situational judgment test that applicants complete online and submit with their application. The CASPer test could be used as an additional tool to rank all capable applicants meeting a minimum GPA threshold. Adding a CASPer test to the admissions process will help to broaden the pool of candidates and may give applicants with lower GPAs a higher chance of being invited to an interview and/or admitted to the program. We do not believe adding in the CASPer would unduly burden candidates given the cost is low and many applicants already complete the test when applying to other schools and programs.

The CASPer will be incorporated into the admissions process for the August 2025 admission cycle. Once approved our website will be updated with a note to new applicants. Admissions for the 2025 cycle will open on November 1, 2024.

**Supporting Materials:**

**\*See Schedule A for additional items to include if needed.**

**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

<p><i>Those who are actively <b>participating</b>:</i></p> <ul style="list-style-type: none"> <li>• Department of Physical Therapy</li> </ul>
<p><i>Those who have been <b>consulted</b>:</i></p> <ul style="list-style-type: none"> <li>• Office of the Registrar</li> <li>• Office of the Vice-Provost (Indigenous Programming &amp; Research)</li> <li>• Faculty of Nursing</li> </ul>
<p><i>Those who have been <b>informed</b>:</i></p> <ul style="list-style-type: none"> <li>•</li> </ul>
<p><b><u>Approval Route:</u></b> -</p> <p>MScPT Program Committee Approval - March 30, 2023</p> <p>- FRM Executive Committee</p>

**GOVERNANCE OUTLINE**



**ITEM NO. 5**

- |                                      |
|--------------------------------------|
| - FRM Faculty Council - May 23, 2023 |
| - GPST - November 20, 2023           |
| - FGPS Council - December 6, 2023    |

**Supplementary Notes / Context:**

--

## Calendar Change Request Form for Program and Regulation Changes

See the [Calendar Guide](#) for tips on how to complete this form.

Faculty (& Department or Academic Unit):	Rehabilitation Medicine, Physical Therapy	
Contact Person:	Amy Peters, Mark Hall	
Level of change (choose one only)	<input type="checkbox"/>	Undergraduate
	<input checked="" type="checkbox"/>	Graduate
Type of change request (check all that apply)	<input type="checkbox"/>	Program
	<input checked="" type="checkbox"/>	Regulation
For which term is this intended to take effect?	Fall 2023	
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No	

### Rationale

In recent years the Department made changes to reduce the emphasis on GPA and place greater weight on the non-academic elements assessed in the MMI for the admission offers. But this does not address the initial interview selection which is still based on GPA alone. As GPA continues to trend upwards it can be anticipated that it will become even more difficult to differentiate applicants for the initial interview selection. The selection of out of province applicants for an interview is being made using random selection. It is not a stretch to think this could soon be the situation for Alberta applicants.

The historical experience with the student cohorts over the past 15 years also indicates that admitted students with a GPA of 3.5 or above are more than capable of succeeding academically and clinically in the program. But increasingly, many capable applicants with a GPA of 3.5 or above are not even being offered an interview. There is a case for saying all students above a minimum GPA cut off (e.g. 3.5 ) are capable of being successful in our program and should be eligible for an interview.

All these factors are strong drivers to change the current admissions process and use additional tools for the initial interview selection and subsequent admissions decisions. The majority of Physical Therapy schools across Canada (thirteen out of fifteen) are now using the CASPer Test in their initial screening and selection of applicants, and it is also used in most health sciences programs. The CASPer is a standardized situational judgment test that applicants complete online and submit with their application. The CASPer test could be used as an additional tool to rank all capable applicants meeting a minimum GPA threshold. Adding a CASPer test to the admissions process will help to broaden the pool of candidates and may give applicants with lower GPAs a higher chance of being invited to an interview and/or admitted to the program. We do not believe adding in the CASPer would unduly burden candidates given the cost is low and many applicants already complete the test when applying to other schools and programs. We believe early implementation (for Fall 2023) would be beneficial in this case.

### Calendar Copy

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poiid=47647&hl=%22physical+therapy%22&returnto=search](https://calendar.ualberta.ca/preview_program.php?catoid=39&poiid=47647&hl=%22physical+therapy%22&returnto=search)

<b>Current</b>	<b>Proposed</b>
<p><b>Removed language</b></p> <p>The selection process is competitive and will be based <b>mainly on the</b> GPA in the most recent 60 units taken prior to January of the admission year. The grade point average of the prerequisite courses may be included in the admissions evaluation process. In addition to academic requirements an interview will be required. While preference will be given to residents of Alberta, approximately 15% of the available seats will be offered to out-of-province and international applicants. A minimum of two seats each year will be designated and offered to qualified applicants of Indigenous ancestry.</p>	<p><b>New language</b></p> <p>The selection process is competitive and will be based on <b>a combination of metrics that include GPA, interview, and situational judgment test (CASPer) scores.</b> GPA will be based on the most recent 60 units taken prior to January of the admission year. The grade point average of the prerequisite courses may be included in the admissions evaluation process. While preference will be given to residents of Alberta, approximately 15% of the available seats will be offered to out-of-province and international applicants. A minimum of two seats each year will be designated and offered to qualified applicants of Indigenous ancestry.</p>

**Reviewed/Approved by:**

<ul style="list-style-type: none"><li>- MScPT Program Committee Approval - March 30, 2023</li><li>- FRM Executive Committee</li><li>- FRM Faculty Council - May 23, 2023</li><li>- GPST - November 20, 2023</li><li>- FGSR Council - December 6, 2023</li></ul>



**FINAL ITEM NO. 6**Decision  Discussion  Information 

**ITEM OBJECTIVE:** To approve the proposed Faculty of Medicine and Dentistry harmonization of graduate program Calendar information regarding admission and program requirement regulations.

<b>DATE</b>	January 11, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Faculty of Medicine and Dentistry

**MOTION:** THAT the GFC Programs Committee approve the proposed changes to the *University Calendar* to harmonize the Faculty of Medicine and Dentistry's Graduate Program admission and program requirement regulation as outlined in the attached submission, for implementation in the 2024-2025 *University Calendar*.

**EXECUTIVE SUMMARY:**

In Fall 2022, the Faculty of Medicine and Dentistry's (FoMD) Graduate Programs Committee (GPC) initiated discussions to streamline and standardize graduate program regulations within the Faculty. The GPC includes representatives from all FoMD graduate programs as well as two graduate student representatives.

The rationale for the proposal has been to meet the following objectives:

- Enhance the operational efficiency of the graduate programs' administrative processes;
- Establish a uniform learning experience and set of expectations for current and future students;
- Simplify the program selection process for prospective applicants, making it easier to navigate their options.

This initiative aims to streamline the Calendar language included for each FoMD Graduate Program and reduce or remove duplication of information where possible, in favour of links to applicable sections of the Calendar. This will assist in ensuring accuracy and alignment of information across the FoMD as well as with FGSR regulations where applicable.

All thesis-based programs will follow the harmonized regulations, whereas there may be instances of clinical or specialized programs that retained more specific program regulations. This is indicated in each individual departmental calendar change document.

New pages that are proposed to allow streamlined navigation within the existing FoMD Calendar pages are outlined in Attachments 2 and 3, FoMD Graduate Admissions and FoMD Graduate Regulations, respectively. These pages are intended to act as central informational pages within

**GOVERNANCE OUTLINE**



**ITEM NO. 6**

the navigational hierarchy, that the individual departmental or program pages will refer directly to where applicable. The formatting and structure of these new pages are based on the existing structure of relevant FGSR Calendar pages. The proposed navigation pathways for FoMD Graduate Admissions and FoMD Graduate Regulations are based on the structure currently used for FoMD undergraduate program information.

**Supporting Materials:**

Attachments (**items bolded are for approval**):

1. FoMD Graduate Program Harmonization - Overview
2. **FoMD Graduate Admissions**
3. **FoMD Graduate Regulations**
4. **FoMD Graduate Program List**
5. **FGSR Graduate Program List**
6. **Department Calendar Changes**
  - a. **Biochemistry**
  - b. **Cell Biology**
  - c. **Dentistry**
  - d. **Laboratory Medicine and Pathology**
  - e. **Medical Genetics**
  - f. **Medical Microbiology and Immunology**
  - g. **Medical Sciences**
  - h. **Medicine**
  - i. **Neuroscience**
  - j. **Obstetrics and Gynecology**
  - k. **Oncology**
  - l. **Ophthalmology & Visual Sciences**
  - m. **Paediatrics**
  - n. **Pharmacology**
  - o. **Physiology**
  - p. **Psychiatry**
  - q. **Radiology and Diagnostic Imaging**
  - r. **Surgery**



**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

**Those who are actively participating:**

- Ms. Lennora Crilov, Manager, Research Training Programs
- Dr. Greg Funk, Chair, Department of Physiology and past Associate Dean Research, Graduate Programs
- FoMD Graduate Programs Committee

**Those who have been consulted:**

- FoMD Graduate Programs Committee - Approval October 10, 2023
- FoMD Faculty Learning Committee - Approval October 20, 2023
- Rebecca Liaw, Calendar Editor, Office of the Registrar
- Andrea Riewe, Executive Coordinator, FGSR

**Those who have been informed:**

- FoMD Faculty Council Committee

**Approval Route:**

- GPST - November 20, 2023
- FGSR Council - December 6, 2023

**Supplementary Notes / Context:**

--

# FoMD Graduate Programs

## Harmonized admission and program requirements

[Link to the full Google Drive for the FoMD Graduate Program Harmonization](#)

### Rationale

The proposed modifications to the calendar are integral to the Faculty of Medicine and Dentistry's initiative to harmonize its graduate programs. The objectives of these proposals are as follows:

- Enhance the operational efficiency of the graduate programs' administrative processes.
- Establish a uniform learning experience and set of expectations for our current and future students.
- Simplify the program selection process for prospective applicants, making it easier for them to navigate their options.

### Location/pathways on the calendar

As the FoMD is the first Faculty in the university to harmonize its graduate programs, new pathways will be made to include the regulations in the calendar. The FoMD regulations, per current calendar formatting structure for the university, is divided into [Graduate Admissions](#) and [Graduate Regulations](#). The proposed pathways are mentioned on the respective documents. The pathways are based on the undergraduate information calendar structure.

### Documents included in the package

The following are the documents included in the harmonized calendar proposal for graduate programs in the FoMD:

- [Graduate Admissions](#)
- [Graduate Regulations](#)
- All the FoMD departments' graduate programs calendar change proposals based on the above [Graduate Admissions](#) and [Graduate Regulations](#).

## Document background information

Below is some background information regarding the putting together of the above documents.

*Note: Per university calendar change regulations, information should not be duplicated/repeated in the calendar, instead a link to the original source must be provided for reference. If FoMD or department information was referred to from elsewhere in the Calendar (for eg. FGSR graduate regulations or admissions), the Calendar location of that information was linked for the reader to refer to.*

### [Graduate Admissions](#)

The format of this document was based on [FGSR's Graduate Admissions](#) calendar page. Only information different from FGSR's regulations/standards are mentioned in this document. The document has an Outline (see far left of the start of the document) of the various sections and subsections to make the document more readable.

This document covers the following sections:

- [Academic Requirements](#)
- [English Language Requirement](#)
- [Supporting Documents for Acceptance into a Graduate Program](#)
- [Application Deadlines](#)

### [Graduate Regulations](#)

The format of this document was based on [FGSR's Graduate Regulations](#) calendar page. Only information different from FGSR's regulations/standards are mentioned in this document. The document has an Outline (see far left of the start of the document) of the various sections and subsections to make the document more readable.

This document covers the following sections:

- [Minimum Length of Time in Program](#)
- [Academic Standing](#)
- [Change of Program: Transferring from MSc to PhD](#)
- [PhD Thesis Proposal and Thesis Proposal Meeting](#)
- [Doctoral Candidacy Examination](#)
- [Program Core Competencies](#)

## Departmental graduate program calendar changes

With an aim to make the information provided on FoMD departments' graduate programs calendar entries more uniform, the following basic order of content was followed:

- General Information
- Entrance Requirements
- Academic Standing Requirements
- Financial Assistance
- Graduate Program Requirements
  - Master's Program
    - Program Core Competencies
    - Thesis
    - Transferring from an MSc to PhD
    - Length of Program
  - Doctoral Programs
    - Program Core Competencies
    - PhD Thesis Proposal
    - Candidacy Exam
    - Thesis
    - Length of Program

## Program Core Competencies

Previously, departments had a 'Program Requirements' section that covered the four elements mentioned under the Program Core Competencies. To harmonize these requirements across the faculty, departments list the applicable courses students must/may take to satisfy the four elements.

## Residence Requirement

The Residence Requirement sections were removed based on GPC approval.

## Faculty of Medicine and Dentistry Approval Routing:

- FoMD Graduate Programs Committee - Approved October 10, 2023
- FoMD Faculty Learning Committee (Faculty Council-delegated Approver) - Approved October 20, 2023
- FoMD Faculty Council Committee - For awareness and challenges, October 25 - November 8, 2023

### Proposal Documents:

1. FoMD Graduate Program Harmonization - Overview
2. [FoMD Graduate Admissions](#)
3. [FoMD Graduate Regulations](#)
4. [FoMD Graduate Program List](#)
5. [FGSR Graduate Program List](#)
6. Department specific calendar pages
  - [Biochemistry](#)
  - [Cell Biology](#)
  - [Dentistry](#)
  - [Laboratory Medicine and Pathology](#)
  - [Medical Genetics](#)
  - [Medical Microbiology and Immunology](#)

[Medical Sciences](#)

[Medicine](#)

[Neuroscience](#)

[Obstetrics and Gynecology](#)

[Oncology](#)

[Ophthalmology and Visual Sciences](#)

[Paediatrics](#)

[Pharmacology](#)

[Physiology](#)

[Psychiatry](#)

[Radiology and Diagnostic Imaging](#)

[Surgery](#)

7. FoMD Forms Cabinet



Faculty (& Department or Academic Unit):	Faculty of Medicine and Dentistry
Contact Person:	Lenora Crilov
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The proposed modifications to the calendar are integral to the Faculty of Medicine and Dentistry's initiative to harmonize its graduate programs. The objectives of these changes are as follows:

- Enhance the operational efficiency of the graduate programs' administrative processes.
- Establish a uniform learning experience and set of expectations for our current and future students.
- Simplify the program selection process for prospective applicants, making it easier for them to navigate their options.

### New Page

This would come under two new pathways/locations:

- [Graduate Admissions](#) > Faculty-Specific Admission Requirements > Faculty of Medicine and Dentistry.
- [College and Faculties](#) > [Faculty of Medicine and Dentistry](#) > Graduate Admissions

### Calendar Copy

# Faculty of Medicine and Dentistry

## Graduate Program Entrance Requirements

The minimum requirements for admission to the Faculty of Medicine and Dentistry's (FoMD's) Graduate Programs (See [FoMD Graduate Programs](#)) are outlined below. Admissions to FoMD graduate programs are made on a competitive basis. Though an applicant may satisfy the minimum admission requirements, acceptance into a graduate program is not guaranteed. The decision to admit an applicant to a graduate program is made by the department and program.

Graduate program entrance requirements for FoMD Graduate Programs are defined at two different levels:

1. The Faculty of Graduate Studies and Research (FGSR) sets the minimum entrance requirements that must be met by all graduate students at the UofA, regardless of program (See [FGSR Graduate Admissions](#)).
2. FoMD has entrance requirements over and above those set by FGSR that must be met by graduate students in all the FoMD graduate programs (See [FoMD Graduate Admissions](#)).

Students are required to familiarize themselves with the graduate program entrance requirements at both levels and supplemental information provided by individual [FoMD Graduate Programs](#).

## Academic Requirements

**Minimum AGPA:** See [FGSR Academic Requirements](#).

**Exceptions:** Clinically-related graduate programs, course-based programs, and certificate programs may have higher AGPA requirements.

# English Language Requirement

The minimum English language proficiency test scores required for admission into the Faculty of Medicine and Dentistry's Graduate Programs are:

- TOEFL (internet-based): A minimum overall score of 95 with a minimum of 21 on each individual skill area.
- Academic IELTS: A minimum overall band score of 7.0 with a minimum of 6.5 in each band.
- EAP 550: Successful completion of the EAP 550 course will fulfill the English Language Proficiency (ELP) requirement for the Faculty of Medicine and Dentistry's Graduate Programs.

**Conditional Acceptance:** If conditional acceptance to the graduate program is granted based on the future completion of EAP 550, the course must be successfully completed before the commencement of the graduate program.

## Clinically-Related Graduate Programs

English language proficiency requirements are set by the respective program.

# Supporting Documents for Acceptance into a Graduate Program

The following documents are required to be accepted into a graduate program:

1. Three letters of references with at least two from academic sources to be submitted via the [online portal](#).
2. Statement of research interests to be submitted via the [online portal](#).
3. Curriculum Vitae to be submitted via the [online portal](#).
4. Transcripts to be submitted via the [online portal](#).
5. [Supervisor Confirmation and Applicant Funding Information form](#)

This form is to be completed by the Supervisor and sent to the department Graduate Program Administrator.

### Exemptions:

Students in clinically-related graduate programs, course-based programs, and the MatCH program are exempt from this requirement.

# Application Deadlines

**Canadian Citizens/Permanent Residents:** Application deadlines are two months prior to the term start date.

**USA and International Students:** Application deadlines are four months prior to the term start date.

See [Academic Schedule](#) for more information on term start dates.

Faculty (& Department or Academic Unit):	Faculty of Medicine and Dentistry
Contact Person:	Lenora Crilov
Level of change: (choose one only)	• Undergraduate
	• Graduate
Type of change request: (check all that apply)	• Program
	• Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The proposed modifications to the calendar are integral to the Faculty of Medicine and Dentistry’s initiative to harmonize its graduate programs. The objectives of these changes are as follows:

- Enhance the operational efficiency of the graduate programs' administrative processes.
- Establish a uniform learning experience and set of expectations for our current and future students.
- Simplify the program selection process for prospective applicants, making it easier for them to navigate their options.

### New Page

- This would come under two new pathways/locations:
- Graduate Regulations > Faculty-Specific Regulations > Faculty of Medicine and Dentistry.
  - College and Faculties > Faculty of Medicine and Dentistry > Graduate Program Regulations (this will come under the Academic Regulations point which refers to FoMD Undergraduate Programs)

### Calendar Copy

# Graduate Program Regulations

Graduate program regulations and standards for Faculty of Medicine and Dentistry (FoMD) graduate programs are defined at three levels:

1. The Faculty of Graduate Studies and Research (FGSR) sets the minimum requirements that must be met by all graduate students at the University (See [FGSR Graduate Regulations](#)).
2. FoMD has regulations over and above those set by FGSR that must be met by graduate students in all the FoMD graduate programs (See [FoMD Graduate Regulations](#)).
3. Individual graduate programs in FoMD have the same minimum requirements, including four core competencies; however, the mechanisms by which these core competencies are satisfied differ between individual programs (See [FoMD Graduate Programs](#)).

Students are required to familiarize themselves with the graduate program regulations and standards at all three levels.

## Minimum Length of Time in Program

**Thesis-based Master's program:** The minimum time required for a student to be registered in a thesis-based Master's program is 1 year. See [FGSR Time Limit for Completion of Graduate Programs](#).

**Doctoral program:** The minimum time required for a student to be registered in a Doctoral program is 3 years. See [FGSR Time Limit for Completion of Graduate Programs](#).

## Academic Standing

Students are required to maintain a minimum cumulative grade point average (GPA) of 3.0 throughout their graduate program. Failure to maintain the required cumulative GPA will result in a recommendation by the Director of Graduate Studies to FGSR that the student be placed on [academic probation](#) or required to withdraw.

**Exceptions:** Clinically-related graduate programs in FoMD have their own minimum GPA requirement to maintain academic standing.

## Change of Program: Transferring from MSc to PhD

The recommended timeframe for transferring from an MSc to a PhD program is after 12 months from the start of the graduate program, with a maximum limit of 24 months.

See [FGSR Change of Program](#) for additional information.

## PhD Thesis Proposal and Thesis Proposal Meeting

### Students Transferring from an MSc to PhD

#### Procedure and Requirements

- Students enrolled in an MSc program wishing to transition to a PhD program without first completing the MSc should inform their Supervisor as early as possible so that a Supervisory Committee can be formed or the composition of the existing Supervisory Committee can be adjusted to match FGSR requirements (See [FGSR Supervisory Committees](#)).
- To initiate the transfer process, the student must first obtain approval from their Supervisory Committee typically 1-2 months prior to the desired transfer date.
- If approval to proceed with the transfer process is granted, the Supervisor schedules a PhD Thesis Proposal Meeting with the Supervisory Committee, at which the student will present and defend their PhD Thesis proposal.
- The PhD Thesis Proposal follows a defined format:
  - Summary of literature; introduction to the student's topic; presentation of preliminary results
  - Hypotheses
  - Description of project including methods
- This document is prepared in consultation with the Supervisor. It focuses on the projected, future research that will form the basis of the PhD thesis work. It should be hypothesis-driven and be supported by the preliminary data generated by the student.

- The document should not exceed 5 single-spaced pages, excluding figures, tables, and references (See Note).
- The Thesis proposal must be submitted to the Supervisor, all members of the Supervisory Committee and the Director of Graduate Studies, at least one week before the scheduled meeting.
- PhD Thesis Proposal Meeting
  - At the PhD Thesis Proposal Meeting, the student will present their PhD proposal in a brief 20-minute oral presentation that is prepared with the assistance of the Supervisor.
  - The presentation will be followed by a 40-minute question period focused on the proposal.
  - The Committee shall evaluate whether the proposed work is of sufficient novelty, quality and quantity to satisfy the requirements of a PhD.
  - Note that it is common during the question period for Committee members to provide feedback and suggestions to improve the proposal.
  - The Committee will also decide on the suitability of the candidate to advance to the PhD program.
  - Successful completion of this step requires a unanimous positive decision that will be communicated to the student (and Director of Graduate Studies and Graduate Program Administrator) by the Supervisor at the meeting (or within one week of the meeting).
- Possible Outcomes of the PhD Thesis Proposal Meeting
  - If the final decision from the Supervisory Committee is positive, the department Graduate Program Administrator will submit the 'Change of Category' and 'Appointment of Supervisor(s) and Supervisory Committee' forms to FGSR. Upon successful transfer, students will be designated as 'Provisional PhD Students' and become eligible to take the Candidacy Examination.
  - If the final decision at the PhD Thesis Proposal Meeting is negative, the student and Supervisor will have one opportunity to submit a revised proposal in accordance with the Supervisory Committee recommendations. The timeframe for submission of the revised proposal will be determined by the Director of Graduate



Studies in consultation with the Supervisor (the suggested time frame must meet program requirements for time to transfer and for completion of the Candidacy). If the second attempt to transfer to the PhD program is unsuccessful, or if the student decides not to make a second attempt to transfer from the MSc to the PhD program, the student will be given the options to complete an MSc or withdraw from the program.

## PhD Direct Admissions

Candidates entering the PhD program directly will prepare a PhD Thesis proposal and have a Thesis Proposal Meeting within the first 18 months of starting their program. This meeting is identical to that described above with the exception that “the Committee will not decide on the suitability of the candidate for the PhD program”. That decision was made upon admission.

- Possible Outcomes of the PhD Thesis Proposal Meeting

- If the decision from the Supervisory Committee is positive, the student can proceed to take the Candidacy Examination.
- If the decision on the PhD Thesis Proposal Meeting is negative, the student and supervisor will revise the Thesis Proposal and reconvene a second PhD Thesis Proposal Meeting within a timeframe determined by the Director of Graduate Studies in consultation with the Supervisor (the suggested time frame must meet program requirements for time to completion of the Candidacy). If the decision of the second Thesis Proposal Meeting is also negative, the Supervisory Committee will decide whether a third attempt is warranted. If not, the student will be given the options to transfer to the MSc program or withdraw from the program.

## Note: The PhD Thesis Proposal vs the Candidacy Research Proposal

The work proposed in both proposals must be novel and rigorous. However, aside from differences in the format (length, etc.), the two major differences between the PhD Thesis Proposal and the Candidacy Research Proposal are:

- The work proposed in the Thesis Proposal must be feasible for completion by the student based on the resources and expertise available.
- The Candidacy Research Proposal is prepared independently by the student.

## Doctoral Candidacy Examination

### Candidacy Completion Timeline

- Students entering the PhD program directly or transferring from an MSc to a PhD within the first 18 months must complete the Candidacy Examination within 30 months of starting their graduate program.
- Students transferring to the PhD between 18-24 months from the start of their graduate program must complete the Candidacy Examination within 36 months of starting their graduate program.

### Purpose of the Candidacy Examination

The Candidacy Examination is an important learning opportunity to help students consolidate their understanding and advance their thinking in the subject area related to their research.

The examination is also to establish that the student has:

- Proficient knowledge of their research subject area.
- The ability to develop, pursue and complete original scientific research at an advanced level, which requires (in addition to knowledge of the discipline) an understanding of experimental design, critical thinking abilities and communication skills.

# Components of the Candidacy Examination

## I. Candidacy Research Proposal

### **Purpose of the Proposal**

The Candidacy Research Proposal aims to:

- Define a specific research problem or question.
- Provide appropriate background to explain the rationale for the proposal.
- Design a series of experiments to answer the question.

The document should propose approximately 4-5 years of graduate student research. To help ensure that the scope of the Proposal is appropriate, the student provides a 1-page Proposal Summary to their Supervisory Committee at the start of the process (See Procedure and Requirements). The Supervisory Committee will assess whether the scope of the Proposal is sufficient and make recommendations if it is not.

The Candidacy Research Proposal is used by the Candidacy Examination Committee (See FGSR Size and Composition of Examining Committees) to evaluate the candidate's creativity and rigor in thinking about experiments. This includes, but is not limited to assessing the candidate's: ability to distinguish a good control from a bad control; understanding of the limitations of proposed approaches and how to ameliorate potential limitations; and their ability to identify, build, and defend novel research. The Candidacy Examination Committee also assesses whether the student has the appropriate background to understand the significance of the Proposal in the context of that specific research field.

### **Topic**

The Candidacy Research Proposal should be related to the student's field of study and PhD Thesis Proposal. The Candidacy Research Proposal can be developed around the focus of the Thesis Proposal, or the Candidacy Research Proposal can be developed entirely de novo (i.e., in the student's field of study but different from the PhD Thesis Proposal) with the approval of the Supervisory Committee. The key point is that the Candidacy research proposal must include substantial new work. A significant proportion

of the proposal should be novel, not part of their own PhD Thesis Proposal or any work ongoing in the lab of their Supervisor or described in grant proposals of the Supervisor.

## II. Oral Presentation

Students are required to complete a 20-minute oral presentation as part of the Candidacy Examination.

## III. Oral Defense

The Oral Defense is a mandatory element of the evaluation process. Examiners will base their questions on content relevant to the Candidacy Research Proposal. *Students should anticipate that questions may pertain to any section of their submitted proposal.*

## Format of the Candidacy Research Proposal

The format for the Candidacy Research Proposal is as follows:

- A cover page with the title of the proposal, the student's name, and the date, time, and location of the examination.
- A 1-page research summary (updated from the original 1-page Proposal Summary submitted for pre-approval). See below 'Procedures, Requirements and Timeline' for additional information.
- The research proposal can be no longer than 10 pages. Up to 5 additional pages can be included for Tables and Figures.
- A complete list of citations with titles (this is not included within the 10-page limit).

Formatting Guidelines:

- Use 8.5" x 11" page format.
- All margins should be set at 2 cm (top, bottom, left, and right).
- Text should be in single-spaced 12-point Times New Roman font, allowing for 48 lines per page.
- Condensed fonts or line spacing are not permitted.
- Page numbers must be clearly displayed at the bottom of each page.
- Any text exceeding the specified limits will be ignored, except for references.
- Tables and Figures should be legible when viewed at 100%.

## Procedures, Requirements and Timeline

- The student discusses the approximate timing of the Candidacy Examination with their Supervisor.
- When ready to begin the Candidacy Examination process, the student meets with the Director of Graduate Studies for their program to review the process and expectations.
- The Supervisor or Supervisory Committee identifies the University Examiner or Specialized Knowledge Examiner.
- The Supervisor and the department's Graduate Program Administrator establish the availability of the Candidacy Examination Committee (See FGSR Size and Composition of Examining Committees) for the various steps in the candidacy process.
- The Supervisor and the department's Graduate Program Administrator complete the Candidacy Examination Timeline form, which is then sent to the student, the Candidacy Examination Committee and the Director of Graduate Studies.
- Seven weeks prior to the date of the Candidacy Examination the student submits a 1-page Proposal Summary to the Director of Graduate Studies and members of the Supervisory Committee for preliminary approval of the topic and scope.

The Proposal Summary must include the following:

- Title.
- Hypothesis(es) and rationale for the proposed research.
- Background: Provide a brief overview of background information needed to explain the novelty and importance of the proposed hypothesis.
- Goal(s)/Research Aims: Describe the overall goal(s), the proposed research and the specific aims that will test the novel hypothesis.
- Methods/Approaches/Expertise: Provide a brief overview of relevant experimental methodologies and how these will be used to address each of the research aims. It is expected that the student will have knowledge of all of the approaches proposed.
- Expected Outcomes: Describe the expected outcomes of the proposed research, both in terms of specific experimental outcomes as well as the

more general implications of the proposed research, highlighting its significance and how it will advance knowledge.

- The Supervisory Committee will have 1 week to review the Proposal Summary to determine the suitability of the topic and scope. The Director of Graduate Studies can be consulted as needed.
- Supervisory Committee decision outcomes:
  - If the 1-page Proposal Summary is approved, the Supervisor/Supervisory Committee will inform the student, the Director of Graduate Studies and the department Graduate Program Administrator. The student has 4 weeks to write the full Candidacy Research Proposal and submit it to the Candidacy Examination Committee.
  - If the Proposal Summary is rejected, the student will be provided with feedback and have the option to modify the Proposal Summary or select a new topic. In either case, the student will have 1 week to submit a revised or new Proposal Summary. The Supervisory Committee will have 1 week to review the revised Proposal Summary. This adds two additional weeks to the process (9 weeks from initial submission of a preliminary 1-page Proposal Summary). Reasons for rejection of a proposed topic include, but are not restricted to, significant overlap with current lab projects, lack of creativity and scope, scientifically unsound ideas, poor experimental design, and substandard writing.
- On receipt of the Candidacy Research Proposal, the Candidacy Examination Committee will have 2 weeks to review the Proposal and prepare for the examination.
- The department Graduate Program Administrator will send a 'Notice of Examining Committee and Examination Date' form to FGSR at least 3 weeks prior to the oral examination.
- If everything proceeds according to schedule, the entire process (from submission of the initial Proposal Summary to the date of the examination) should take 7 weeks to complete. Scheduling conflicts may cause delays, but every effort should be made to ensure that the process does not extend beyond 9 weeks.

- Upon successful completion of the Candidacy Examination, students are designated as “PhD Candidates”.

See [FGSR Doctoral Candidacy Examination](#) for supplemental information.

## Program Core Competencies

Twelve departments in the FoMD offer graduate programs leading to the Master of Science and Doctor of Philosophy degrees. Seven additional departments offer graduate programs leading to the Master of Science and Doctor of Philosophy degrees in the Medical Sciences Graduate Program (MSGP).

Program and course content differ between graduate programs but each program is designed to deliver four core competencies, described below\*. The manner in which these core competencies are delivered varies between graduate programs and are described separately for each program (See [FoMD Graduate Programs](#)). All programs are able to require additional courses on an ad hoc, per student basis, to meet the needs of individual students.

*\*Clinically-related graduate programs, course-based graduate programs, and specializations are excluded as they have a need for high course numbers.*

### 1. Professional Development and Ethics

The primary learning objective of this core competency is to provide students with the skills, knowledge, and mindset to fully realize their strengths and potential in all environments. These elements are currently satisfied through the FGSR [Ethics and Academic Citizenship Requirement](#) and [Professional Development Requirement](#). However, individual programs can require additional components or offer optional components that complement the FGSR requirements. Animal ethics and handling courses are separate, program-specific requirements.

This core competency is required for MSc and PhD programs.

### 2. Communication

The primary learning objective of this core competency is to ensure students learn how to effectively communicate science in a variety of formats (e.g., seminars/research talks, three-minute thesis, poster presentations). Examples include but are not limited to specific courses (e.g. Cell 671 and 672), participation in specified

seminar programs or grand rounds (often throughout their degree program), and journal clubs. Individual programs specify how this requirement is satisfied.

This core competency is required for MSc and PhD programs.

### **3. Critical Reading/Thinking**

The primary learning objective of this core competency is to improve critical reading/thinking skills through guided review of current literature in a range of topics related to the research area of the student. Formats include, but are not limited to: small (approximately 10 students), journal-club style graduate courses that often involve multiple professors; reading courses with one (or two) students and one supervisor; research techniques course for PhD students only where the student spends time in another lab to acquire the theoretical and technical expertise to use a technique important in their thesis research.

MSc students are required to complete a total of 3 units of graduate level coursework from Critical Reading/Thinking and Background Knowledge core competencies. PhD students are required to complete 3 units of graduate level coursework in Critical Reading/Thinking and Background Knowledge core competencies (total 6 units). PhD students entering the program with an MSc in a relevant discipline may only be required to complete 3 units of graduate level coursework, at the discretion of the Director of Graduate Studies in consultation with the Supervisor.

### **4. Background Knowledge**

The primary learning objective of this core competency is to improve background knowledge in key areas related to the student's research.

MSc students are required to complete a total of 3 units of graduate level coursework from Critical Reading/Thinking and Background Knowledge core competencies. PhD students are required to complete 3 units of graduate level coursework in Critical Reading/Thinking and Background Knowledge core competencies (total 6 units). PhD students entering the program with an MSc in a relevant discipline may only be required to complete 3 units of graduate level coursework, at the discretion of the Director of Graduate Studies in consultation with the Supervisor.





Faculty (& Department or Academic Unit):	FoMD
Contact Person:	Lenora Crilov
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Undergraduate</li> </ul>
	<ul style="list-style-type: none"> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Program</li> </ul>
	<ul style="list-style-type: none"> <li>• Regulation</li> </ul>
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This page will require updating to include the current graduate programs offered by the Faculty of Medicine and Dentistry.  
Also shown is the proposed new page link outline for FoMD Graduate Program Regulations within the existing outline.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/preview_entity.php?catoid=39&amp;ent_oid=5000">https://calendar.ualberta.ca/preview_entity.php?catoid=39&amp;ent_oid=5000</a>	
<b>Current Copy:</b> <del>Removed language</del>	<b>Proposed Copy:</b> <b>New language</b>
Faculty of Medicine and Dentistry  <hr style="width: 40%; margin-left: 0;"/>	Faculty of Medicine and Dentistry  <hr style="width: 40%; margin-left: 0;"/>
<b>Contact Information</b>	<b>Contact Information</b>

**Admission Information**

For MD Program, 1-002 Katz Group Centre for Pharmacy and Health Research (780) 492-6350  
 For MLS Program, 5-411 Edmonton Clinic Health Academy (780) 492-6601  
 For Dentistry and Dental Hygiene Programs, 5th Floor Edmonton Clinic Health Academy (780) 492-1319  
 For Radiation Therapy Program, 3-12 University Terrace (780) 492-6918

**Academic Matters**

Associate Dean (Undergraduate Medical Education), 1-002 Katz Group Centre for Pharmacy and Health Research (780) 492-9523  
 Associate Dean (Postgraduate Medical Education), 2- 76 Zeidler Ledcor Centre (780) 492-4751  
 Associate Chair (Academic, Dentistry), 5th Floor Edmonton Clinic Health Academy (780) 492-3312

General Information

- [The Faculty of Medicine and Dentistry](#)
- [Members of the Faculty](#)
- [Department of Dentistry Objectives](#)
- [Affiliated Hospitals and Institutions](#)
- [Registration and Licensing](#)
- [Finance](#)
- [Medical and Dental Society Memberships](#)

Admission

- [Admission](#)

Academic Regulations

- [Professional Standards](#)
- [Technical Standards](#)
- [Certification Requirements](#)
- [Course Exemption/Credits](#)
- [Attendance](#)
- [Faculty Advisor](#)

**Admission Information**

For MD Program, 1-002 Katz Group Centre for Pharmacy and Health Research (780) 492-6350  
 For MLS Program, 5-411 Edmonton Clinic Health Academy (780) 492-6601  
 For Dentistry and Dental Hygiene Programs, 5th Floor Edmonton Clinic Health Academy (780) 492-1319  
 For Radiation Therapy Program, 3-12 University Terrace (780) 492-6918

**Academic Matters**

Associate Dean (Undergraduate Medical Education), 1-002 Katz Group Centre for Pharmacy and Health Research (780) 492-9523  
 Associate Dean (Postgraduate Medical Education), 2-76 Zeidler Ledcor Centre (780) 492- 4751  
 Associate Chair (Academic, Dentistry), 5th Floor Edmonton Clinic Health Academy (780) 492-3312

General Information

- [The Faculty of Medicine and Dentistry](#)
- [Members of the Faculty](#)
- [Department of Dentistry Objectives](#)
- [Affiliated Hospitals and Institutions](#)
- [Registration and Licensing](#)
- [Finance](#)
- [Medical and Dental Society Memberships](#)

Admission

- [Admission](#)

Academic Regulations

- [Professional Standards](#)
- [Technical Standards](#)
- [Certification Requirements](#)
- [Course Exemption/Credits](#)
- [Attendance](#)
- [Faculty Advisor](#)

<ul style="list-style-type: none"> <li>● <u>Grades and Ranking</u></li> <li>● <u>Academic Standing and Promotion</u></li> <li>● <u>Reexamination/Reassessment</u></li> <li>● <u>Practicum Intervention</u></li> <li>● <u>Absences from Program</u></li> <li>● <u>Appeals and Grievances</u></li> </ul> <p><u>Programs of Study</u></p> <ul style="list-style-type: none"> <li>● <u>Protection for Persons in Care</u></li> <li>● <u>MD with Special Training in Research</u></li> <li>● <u>Honors in Research Program in Medical Laboratory Science</u></li> <li>● <u>Graduate Studies</u></li> <li>● <u>Continuous Professional Learning</u></li> <li>● <u>Continuing Dentistry Education</u></li> <li>● <u>Postgraduate Medical Education</u></li> <li>● <u>Postgraduate Dental Education</u></li> <li>● <u>Combined Program for the Degrees of MD and PhD</u></li> </ul> <p><u>Courses</u></p>	<ul style="list-style-type: none"> <li>● <u>Grades and Ranking</u></li> <li>● <u>Academic Standing and Promotion</u></li> <li>● <u>Reexamination/Reassessment</u></li> <li>● <u>Practicum Intervention</u></li> <li>● <u>Absences from Program</u></li> <li>● <u>Appeals and Grievances</u></li> </ul> <p><b>Graduate Program Regulations</b></p> <ul style="list-style-type: none"> <li>● <u>Minimum Length of Time in Program</u></li> <li>● <u>Academic Standing</u></li> <li>● <u>Change of Program: Transferring from MSc to PhD</u></li> <li>● <u>PhD Thesis Proposal and Thesis Proposal Meeting</u></li> <li>● <u>Doctoral Candidacy Examination</u></li> <li>● <u>Program Core Competencies</u></li> </ul> <p><u>Programs of Study</u></p> <ul style="list-style-type: none"> <li>● <u>Protection for Persons in Care</u></li> <li>● <u>MD with Special Training in Research</u></li> <li>● <u>Honors in Research Program in Medical Laboratory Science</u></li> <li>● <u>Graduate Studies</u></li> <li>● <u>Continuous Professional Learning</u></li> <li>● <u>Continuing Dentistry Education</u></li> <li>● <u>Postgraduate Medical Education</u></li> <li>● <u>Postgraduate Dental Education</u></li> <li>● <u>Combined Program for the Degrees of MD and PhD</u></li> </ul> <p><u>Courses</u></p>
--	--

Programs

**Undergraduate**

- Bachelor of Medical Science
- Bachelor of Science Dental Hygiene
- Bachelor of Science in Medical Laboratory Science
- Bachelor of Science in Medical Laboratory Science Post-Professional Certification degree completion
- Bachelor of Science in Radiation Therapy
- Doctor of Dental Surgery
- Doctor of Dental Surgery Advanced Placement Program
- Doctor of Medicine

**Graduate**

- Doctor of Medicine and Doctor of Philosophy Combined Degrees Program

Programs

**Undergraduate**

- Bachelor of Medical Science
- Bachelor of Science Dental Hygiene
- Bachelor of Science in Medical Laboratory Science
- Bachelor of Science in Medical Laboratory Science Post-Professional Certification degree completion
- Bachelor of Science in Radiation Therapy
- Doctor of Dental Surgery
- Doctor of Dental Surgery Advanced Placement Program
- Doctor of Medicine

**Graduate**

- Graduate Programs in Biochemistry
- Graduate Programs in Cell Biology
- Graduate Programs in Dentistry
- Graduate Programs in Laboratory Medicine and Pathology
- Graduate Programs in Medical Genetics
- Graduate Programs in Medical Microbiology and Immunology
- Graduate Programs in Medical Sciences
- Graduate Programs in Medicine
- Doctor of Medicine and Doctor of Philosophy Combined Degrees Program
- Graduate Programs in Neuroscience
- Graduate Programs in Obstetrics and Gynecology
- Graduate Programs in Oncology
- Graduate Programs in Ophthalmology and Visual Sciences

<p><b>Certificate</b></p> <ul style="list-style-type: none"><li>● <a href="#">Certificate in Biomedical Research</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Graduate Programs in Paediatrics</a></li><li>• <a href="#">Graduate Programs in Pharmacology</a></li><li>• <a href="#">Graduate Programs in Physiology</a></li><li>• <a href="#">Graduate Programs in Psychiatry</a></li><li>• <a href="#">Graduate Programs in Radiology and Diagnostic Imaging</a></li><li>• <a href="#">Graduate Programs in Surgery</a></li></ul> <p><b>Certificate</b></p> <ul style="list-style-type: none"><li>● <a href="#">Certificate in Biomedical Research</a></li></ul>
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

Faculty (& Department or Academic Unit):	FoMD
Contact Person:	Lenora Crilov
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Undergraduate</li> </ul>
	<ul style="list-style-type: none"> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Program</li> </ul>
	<ul style="list-style-type: none"> <li>• Regulation</li> </ul>
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

This page needs to be updated to link the FoMD graduate programs listings.

### Calendar Copy

URL in current Calendar (or "New page") <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12434">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12434</a>	
<b>Current Copy:</b> <span style="background-color: yellow;">Removed language</span>	<b>Proposed Copy:</b> <span style="background-color: yellow;">New language</span>
<p>Graduate Programs</p> <p>General Information</p> <p>A brief description of each program offered under the auspices of the Faculty of Graduate Studies and Research is given in the following section. Entries are arranged alphabetically by department. Prospective applicants should note, in addition to the general requirements of the Faculty of Graduate Studies and</p>	<p>Graduate Programs</p> <p>General Information</p> <p>A brief description of each program offered under the auspices of the Faculty of Graduate Studies and Research is given in the following section. Entries are arranged alphabetically by department. Prospective applicants should note, in addition to the general requirements of the Faculty of Graduate Studies and</p>

Research, the particular admission requirements, potential fields of research and the specific requirements for each program. Graduate and undergraduate courses that may be taken in order to fulfil the requirements for a graduate program are listed in [Course Listings](#).

The Faculty of Graduate Studies and Research supports the concept of interdisciplinary studies. Guidelines for proposing such a program are available from the Faculty of Graduate Studies and Research office.

Faculty of Graduate Studies and Research

Programs

**Graduate - Field of Study**

- [Graduate Programs in Agricultural, Food, and Nutritional Science](#)
- [Graduate Programs in Anesthesiology and Pain Medicine](#)
- [Graduate Programs in Anthropology](#)
- [Graduate Programs in Art and Design](#)
- [Graduate Programs in Biochemistry](#)
- [Graduate Programs in Biological Sciences](#)
- [Graduate Programs in Biomedical Engineering](#)
- [Graduate Programs in Business](#)
- [Graduate Programs in Cell Biology](#)
- [Graduate Programs in Chemical and Materials Engineering](#)
- [Graduate Programs in Chemistry](#)

Research, the particular admission requirements, potential fields of research and the specific requirements for each program. Graduate and undergraduate courses that may be taken in order to fulfil the requirements for a graduate program are listed in [Course Listings](#).

The Faculty of Graduate Studies and Research supports the concept of interdisciplinary studies. Guidelines for proposing such a program are available from the Faculty of Graduate Studies and Research office.

Faculty of Graduate Studies and Research

Programs

**Programs sorted by Faculty**

- [Faculty of Medicine and Dentistry](#)

**Graduate - Field of Study**

- [Graduate Programs in Agricultural, Food, and Nutritional Science](#)
- [Graduate Programs in Anesthesiology and Pain Medicine](#)
- [Graduate Programs in Anthropology](#)
- [Graduate Programs in Art and Design](#)
- [Graduate Programs in Biochemistry](#)
- [Graduate Programs in Biological Sciences](#)
- [Graduate Programs in Biomedical Engineering](#)
- [Graduate Programs in Business](#)
- [Graduate Programs in Cell Biology](#)
- [Graduate Programs in Chemical and Materials Engineering](#)
- [Graduate Programs in Chemistry](#)
- [Graduate Programs in Civil and Environmental Engineering](#)



- Graduate Programs in Civil and Environmental Engineering
- Graduate Programs in Communication Sciences and Disorders
- Graduate Programs in Communications and Technology
- Graduate Programs in Community-Based Research and Evaluation
- Graduate Programs in Computing Science
- Graduate Programs in Dentistry
- Graduate Programs in Digital Humanities
- Graduate Programs in Drama
- Graduate Programs in Earth and Atmospheric Sciences
- Graduate Programs in East Asian Studies
- Graduate Programs in Economics
- Graduate Programs in Education
- Graduate Programs in Electrical and Computer Engineering
- Graduate Programs in English and Film Studies
- Graduate Programs in Faculté Saint-Jean
- Graduate Programs in History and Classics
- Graduate Programs in Human Ecology
- Graduate Programs in Internetworking
- Graduate Programs in Kinesiology, Sport, and Recreation
- Graduate Programs in Laboratory Medicine and Pathology
- Graduate Programs in Law
- Graduate Programs in Linguistics
- Graduate Programs in Mathematical and Statistical Sciences

- Graduate Programs in Communication Sciences and Disorders
- Graduate Programs in Communications and Technology
- Graduate Programs in Community-Based Research and Evaluation
- Graduate Programs in Computing Science
- Graduate Programs in Dentistry
- Graduate Programs in Digital Humanities
- Graduate Programs in Drama
- Graduate Programs in Earth and Atmospheric Sciences
- Graduate Programs in East Asian Studies
- Graduate Programs in Economics
- Graduate Programs in Education
- Graduate Programs in Electrical and Computer Engineering
- Graduate Programs in English and Film Studies
- Graduate Programs in Faculté Saint-Jean
- Graduate Programs in History and Classics
- Graduate Programs in Human Ecology
- Graduate Programs in Internetworking
- Graduate Programs in Kinesiology, Sport, and Recreation
- Graduate Programs in Laboratory Medicine and Pathology
- Graduate Programs in Law
- Graduate Programs in Linguistics
- Graduate Programs in Mathematical and Statistical Sciences
- Graduate Programs in Mechanical Engineering
- Graduate Programs in Medical Genetics

<ul style="list-style-type: none"> <li>• <u>Graduate Programs in Mechanical Engineering</u></li> <li>• <u>Graduate Programs in Medical Genetics</u></li> <li>• <u>Graduate Programs in Medical Microbiology and Immunology</u></li> <li>• <u>Graduate Programs in Medical Sciences</u></li> <li>• <u>Graduate Programs in Medicine</u></li> <li>• <u>Graduate Programs in Mining and Petroleum Engineering</u></li> <li>• <u>Graduate Programs in Modern Languages and Cultural Studies</u></li> <li>• <u>Graduate Programs in Music</u></li> <li>• <u>Graduate Programs in Native Studies</u></li> <li>• <u>Graduate Programs in Neuroscience</u></li> <li>• <u>Graduate Programs in Nursing</u></li> <li>• <u>Graduate Programs in Obstetrics and Gynecology</u></li> <li>• <u>Graduate Programs in Occupational Therapy</u></li> <li>• <u>Graduate Programs in Oncology</u></li> <li>• <u>Graduate Programs in Ophthalmology and Visual Sciences</u></li> <li>• <u>Graduate Programs in Paediatrics</u></li> <li>• <u>Graduate Programs in Pharmacology</u></li> <li>• <u>Graduate Programs in Pharmacy and Pharmaceutical Sciences</u></li> <li>• <u>Graduate Programs in Philosophy</u></li> <li>• <u>Graduate Programs in Physical Therapy</u></li> <li>• <u>Graduate Programs in Physics</u></li> <li>• <u>Graduate Programs in Physiology</u></li> <li>• <u>Graduate Programs in Political Science</u></li> <li>• <u>Graduate Programs in Psychiatry</u></li> <li>• <u>Graduate Programs in Psychology</u></li> <li>• <u>Graduate Programs in Public Health</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Graduate Programs in Medical Microbiology and Immunology</u></li> <li>• <u>Graduate Programs in Medical Sciences</u></li> <li>• <u>Graduate Programs in Medicine</u></li> <li>• <u>Graduate Programs in Mining and Petroleum Engineering</u></li> <li>• <u>Graduate Programs in Modern Languages and Cultural Studies</u></li> <li>• <u>Graduate Programs in Music</u></li> <li>• <u>Graduate Programs in Native Studies</u></li> <li>• <u>Graduate Programs in Neuroscience</u></li> <li>• <u>Graduate Programs in Nursing</u></li> <li>• <u>Graduate Programs in Obstetrics and Gynecology</u></li> <li>• <u>Graduate Programs in Occupational Therapy</u></li> <li>• <u>Graduate Programs in Oncology</u></li> <li>• <u>Graduate Programs in Ophthalmology and Visual Sciences</u></li> <li>• <u>Graduate Programs in Paediatrics</u></li> <li>• <u>Graduate Programs in Pharmacology</u></li> <li>• <u>Graduate Programs in Pharmacy and Pharmaceutical Sciences</u></li> <li>• <u>Graduate Programs in Philosophy</u></li> <li>• <u>Graduate Programs in Physical Therapy</u></li> <li>• <u>Graduate Programs in Physics</u></li> <li>• <u>Graduate Programs in Physiology</u></li> <li>• <u>Graduate Programs in Political Science</u></li> <li>• <u>Graduate Programs in Psychiatry</u></li> <li>• <u>Graduate Programs in Psychology</u></li> <li>• <u>Graduate Programs in Public Health</u></li> <li>• <u>Graduate Programs in Radiology and Diagnostic Imaging</u></li> </ul>
--	--

<ul style="list-style-type: none"><li>• <u>Graduate Programs in Radiology and Diagnostic Imaging</u></li><li>• <u>Graduate Programs in Rehabilitation Medicine</u></li><li>• <u>Graduate Programs in Religious Studies</u></li><li>• <u>Graduate Programs in Renewable Resources</u></li><li>• <u>Graduate Programs in Resource Economics and Environmental Sociology</u></li><li>• <u>Graduate Programs in Sociology</u></li><li>• <u>Graduate Programs in Surgery</u></li><li>• <u>Graduate Programs in Women's and Gender Studies</u></li></ul>	<ul style="list-style-type: none"><li>• <u>Graduate Programs in Rehabilitation Medicine</u></li><li>• <u>Graduate Programs in Religious Studies</u></li><li>• <u>Graduate Programs in Renewable Resources</u></li><li>• <u>Graduate Programs in Resource Economics and Environmental Sociology</u></li><li>• <u>Graduate Programs in Sociology</u></li><li>• <u>Graduate Programs in Surgery</u></li><li>• <u>Graduate Programs in Women's and Gender Studies</u></li></ul>
--	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date.

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.

**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:** Approve the following:

1. Changes to the admission requirements for the Bachelor of Science (Major and Honors).
2. Changes to the Bachelor of Science (Major and Honors), including the addition of continuation and graduation requirements.
3. Changes to Faculty of Science General Information, Regulations, and Courses pages, including changes to the academic standing and graduation regulations to reflect the introduction of the Bachelor of Science (Major and Honors).

<b>DATE</b>	Thursday, January 11, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Provost and Vice-President (Academic)

**MOTION 1:** THAT the GFC Programs Committee approve, under delegated authority from General Faculties Council, the proposed changes to the admission requirements for the Bachelor of Science (Major and Honors), as proposed by the Faculty of Science and as set forth in Attachment 2, to take effect in the 2024-2025 *University Calendar*.

**MOTION 2:** THAT the GFC Programs Committee approve, under delegated authority from General Faculties Council, the proposed changes to the Bachelor of Science (Major and Honors), as proposed by the Faculty of Science and as set forth in Attachment 3, to take effect in the 2024-2025 *University Calendar*.

**MOTION 3:** THAT the GFC Programs Committee approve, under delegated authority from General Faculties Council, the proposed changes to Faculty of Science General Information, Regulations, and Courses, as proposed by the Faculty of Science and as set forth in Attachment 4, to take effect in the 2024-2025 *University Calendar*.

---

**EXECUTIVE SUMMARY:**

The changes proposed here are the second and last set of changes needed to finalize the BSc Renewal Project, which resulted in a restructuring of the Bachelor of Science degree framework in the Faculty of Science (moving from three degree types, BSc General, Specialization, and Honors, to two degree types, Major and Honors), effective for Fall 2024. Program requirements and admission requirements for the new Bachelor of Science (Major and Honors) were approved for the 2023/24 Calendar, and we are currently admitting students into the new program for Fall 2024. Starting with the 2024/25 Calendar, we need to have regulations in place governing the new program, in particular regulations pertaining to academic standing and graduation.

---

**GOVERNANCE OUTLINE**

Please see Attachment 1 for an analysis and discussion of the most important changes proposed, in particular the revision to the admission requirements for the new Bachelor of Science (Major and Honors), the introduction of continuation and graduation requirements and academic standing regulations for this program, and the omission of First Class Standing for students in this program.

The removal of the admission requirement to present a minimum GPA in courses completed towards the intended Major/Honors subject area (applicable only to postsecondary transfer applicants) poses a minor risk: we may admit a postsecondary transfer applicant who has demonstrated poor performance in their intended subject area. We are mitigating this risk by implementing a periodic communication strategy prior to the start of every Fall/Winter to remind students to check their own performance in their Major/Honors subject area and to consult with an Academic Advisor whenever their performance falls below the minimum requirement. In addition, the Academic Advisement Report (available to students on Bear Tracks) reflects the students' Subject Area GPA and includes an alert if this GPA falls below the minimum requirement, with advice to consult with an Academic Advisor. The benefits associated with the proposed changes to admission requirements greatly outweigh any risks: the relaxation of the admission requirements in general benefits students (a minor GPA fault in a transfer student's intended subject area is not a barrier for admission to the Faculty of Science provided their Admission GPA meets the standards of the Faculty of Science) and permits automated admission by the Office of the Registrar (greatly reducing manual admission efforts).

There are no risks to the institution associated with the proposed continuation requirements and academic standing regulations for students in the new Bachelor of Science (Major and Honors): the continuation requirements for students in the Major are the same as continuation requirements in place for the Pre-Fall 2024 BSc General program; the continuation requirements for students in the Honors are similar in spirit (except with higher GPA requirements). There is a small risk associated with the omission of an annual check on students' performance in their subject area (as is currently in place for some, but not all, of the Pre-Fall 2024 Specialization and Honors programs). This risk is very similar to the risk described above in the context of admission, and we are mitigating this risk by the implementation of a periodic communication strategy prior to the start of every Fall/Winter, as described above. Students benefit from somewhat relaxed academic standing regulations: there no longer will be unnecessary May Not Continue academic standing rulings for a first-time, minor fault, eliminating the need for an appeal process. Science Student Services and the Departments benefit from a reduction in administrative overhead. The proposed graduation requirements ensure that the standards of our programs are not compromised.

There may be a perceived risk by some students with the omission of First Class Standing in the new Bachelor of Science (Major and Honors). While students may feel that they are losing recognition of academic excellence, we believe that the removal of this standing addresses equity issues and far outweighs this perceived risk. We emphasize that graduation honorifics (With Distinction, and First Class Honors) remain in place, recognizing academic excellence holistically (on the last 60 units of graded courses work credited to the degree), regardless of course load. Further, the high GPA of academically strong students is reflected on their

transcripts. Upon request by a stakeholder, we commit to providing a letter explaining why we have eliminated First Class Standing.

There are no risks associated with the proposed graduation requirements for students in the new Bachelor of Science (Major and Honors). These requirements are similar in spirit to those in place for the Pre-Fall 2024 programs but harmonized across all subject areas, resulting in a more consistent and efficient assessment of graduation readiness.

Implementation of all aspects of the new Bachelor of Science degree framework is on schedule (if not ahead of schedule). The Science Student Services team is actively engaged in communicating changes in our degree framework to students (via updated student handouts, updated email templates, updated web pages, town halls, etc.). Shennella Blake, Manager, Undergraduate Programs, is working with the Office of the Registrar and the Recruiters on all aspects related to admissions. Stephanie Gillis, Team Lead, Advising, is updating office procedures and training Academic Advisors on all aspects of the new degree programs (from assessing transfer credit to executing degree assessments to clearing students for convocation). Shennella and Stephanie also are connecting with departmental advisors to ensure they have the tools needed to assist students with questions about the new degree framework and changing requirements. Shennella, Stephanie, and the Associate Deans, Undergraduate, are collaborating with the Functional Analysts in the Office of Education in the College of Natural and Applied Sciences to ensure that Academic Advisement Reports on Bear Tracks will be complete and accurate (these are set up, and we are currently in the testing phase). Last but not least, we already have set the stage for implementing the proposed academic standing rules on Campus Solutions as soon as they are approved.

**Supporting Materials:**

1. Attachment 1 - Analysis and Discussion of Proposed Changes.pdf
2. **For approval:** Attachment 2 - Faculty of Science Admission Requirements.pdf
3. **For approval:** Attachment 3 - Bachelor of Science (Major and Honors).pdf
4. **For approval:** Attachment 4 - Faculty of Science General Information, Regulations, and Courses.pdf
5. Attachment 5 - Excerpts from Minutes of Science Faculty Council 2019-05-23.pdf

**\*See Schedule A for additional items to include if needed.**

**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

**Those who are actively participating:**

- Science Student Services
  - Shennella Blake, Manager, Undergraduate Programs

- o Stephanie Gillis, Team Lead, Advising
- o Jocelyn Hall, Associate Dean, Undergraduate
- o Gerda de Vries, Associate Dean, Undergraduate
- Associate Chairs and Program Directors/Advisors from the following units:
  - o Department of Biochemistry
  - o Department of Biological Sciences
  - o Department of Cell Biology
  - o Department of Chemistry
  - o Department of Computing Science
  - o Department of Earth and Atmospheric Sciences
  - o Department of Mathematical and Statistical Sciences
  - o Department of Pharmacology
  - o Department of Physics
  - o Department of Physiology
  - o Department of Psychology
  - o Neuroscience and Mental Health Institute

**Those who have been consulted:**

- Academic Advisors and Admissions Specialist, Science Student Services
- Students:
  - o Interdepartmental Science Students Society (ISSS)
  - o Council of Science Student Associations (COSSA) Executives
  - o Student Advisory Group on BSc Renewal
  - o Pedro Almeida, VP Academic, University of Alberta Students' Union (UASU)
- Rebecca Liaw, University Calendar Editor
- Provost's Office
  - o Tammy Hopper, former Vice-Provost, Programs
  - o Janice Causgrove Dunn, Vice-Provost, Programs
  - o Carrie Smith, Vice-Provost, Equity, Diversity & Inclusion
- College of Natural and Applied Sciences
  - o Tara McGee, Associate Dean, Equity, Diversity, and Inclusion
  - o Julie Naylor, College General Manager
  - o Jim Bohun, Director, Office of Education
  - o Maribel Jiles, Team Lead, Student Systems Team

**Those who have been informed:**

- College of Natural and Applied Sciences
  - o Functional Analysts, Student Systems Team, Office of Education
  - o Nicole Dyck, Enrolment Management Service Partner
  - o Oksana Feculak, Student Recruitment Service Partner

**Approval Route:**

Faculty of Science Undergraduate Programs Committee, November 30, 2023  
Program Support Team (Undergraduate and Non-Credit), December 14, 2023  
GFC Programs Committee, January 11, 2024



**Supplementary Notes / Context:**



# Analysis and Discussion of Proposed Changes

In this document, we provide additional details on the motivation and justification of the most significant and important changes proposed in [Attachments 2, 3, and 4](#). The attachments include additional minor changes. Justifications of these additional minor changes are provided in the Rationale sections at the top of [Attachments 2, 3, and 4](#).

## Revision of Admission Requirements for the Bachelor of Science (Major and Honors)

The proposed revisions to admission requirements for the new Bachelor of Science (Major and Honors) are contained in [Attachment 2](#). The most pertinent are as follows:

### **1. Including admission requirements for Nonmatriculated Applicants.**

We neglected to include admission requirements for Nonmatriculated Applicants when we overhauled this page last year in preparation for admission to the program for Fall 2024, and are correcting this oversight. This correction restores alignment with other Faculties.

### **2. Removing the minimum GPA requirement in courses taken towards the student's intended subject area.**

When we introduced admission requirements for the new Bachelor of Science (Major and Honors) in last year's Calendar, we anticipated having continuation requirements that included a minimum Fall/Winter GPA in courses taken towards the student's chosen subject area. We therefore included a minimum GPA in courses already completed towards the student's subject area in the admission requirements, above and beyond the requirement to meet Science's competitive Admission GPA.

Since then, we have concluded that it is not necessary to include a minimum performance standard in the student's subject area in the continuation requirements. For consistency, we therefore remove the minimum performance standard in the student's intended subject area from the admission requirements. This simplification benefits students and permits automated admission by the Office of the Registrar (greatly reducing manual admission efforts).

### **3. Moving the admission requirements for the Minor in Business from the Faculty of Science Regulations page to the Faculty of Science Admissions page.**

The new location of admission requirements for the Minor in Business provides easily accessible transparency to Postsecondary Transfer Applicants.

## Revision of Program Requirements for the Bachelor of Science (Major and Honors)

The proposed changes to the program requirements for the new Bachelor of Science (Major and Honors) are contained in [Attachment 3](#). The most pertinent are the articulation of minima on courses at the 300 level or above to be taken at the University of Alberta and maxima on courses at the 300 level or above that can be taken at another postsecondary institution, as follows:

1. Correcting the restrictions on courses at the 300 level or above taken towards the Minor.

The original restriction was incorrectly located (implying that it applied only to Minors outside the Faculty of Science) and incorrectly stated (implying that only courses at the 300 level or above taken while registered in the Faculty of Science could be used towards the Minor).

We now correctly state that the minimum requirements (6 units) at the 300 level or above for any Minor must be taken at the University of Alberta (it does not matter where the student was registered when they took these courses, so that transfer students from another Faculty are not penalized). Note that a student may take additional courses at the 300 level or above towards the Minor at another postsecondary institution.

2. Introducing analogous restrictions on requirements of courses at the 300 level or above taken towards the Major/Honors.

We now state that the minimum 400-level requirements specified for a Major/Honors subject area must be taken at the University of Alberta, and that at most 6 units at the 300 level or above can be taken at another postsecondary institution. Note that we can use units in excess of this restriction towards the degree, but not towards the subject area; this ensures that the student meets the minimum subject area GPA requirements primarily on courses taken at the University of Alberta.

These restrictions are not new: we have similar restrictions in place in the Pre-Fall 2024 BSc General program as well as some Pre-Fall 2024 Specialization and Honors programs.

3. Introducing analogous restrictions on requirements of courses at the 300 level and above taken towards the degree.

We now state that students in the Major program must take at least 24 units (out of a

minimum of 36 units) at the 300 level or above at the University of Alberta. Similarly, students in the Honors program must take at least 30 units (out of a minimum of 42 units) at the 300 level or above at the University of Alberta.

Note that this does not mean that we can award only 12 (36 minus 24, or 42 minus 30) units transfer credit for courses at the 300 level or above taken at other postsecondary institutions; students can be granted more than 12 units transfer credit for courses at the 300 level or above taken elsewhere. Nonetheless, students are expected to take at least 24 or 30 units at the 300 level or above at the University of Alberta.

## Introduction of Continuation Requirements and Academic Standing Regulations for the Bachelor of Science (Major and Honors)

The proposed continuation requirements for the new Bachelor of Science (Major and Honors) are contained in [Attachment 3](#), specifically Article 1 under the heading Academic Standing and Graduation.

The proposed continuation requirements for students in the new Major program are identical to those for the Pre-Fall 2024 BSc General program: students must achieve a Fall/Winter GPA of at least 2.0.

The proposed continuation requirements for students in the new Honors program are similar in spirit (the only difference is a higher GPA requirement): students must achieve a Fall/Winter GPA of at least 3.0, except students in Honors Neuroscience, who must achieve a Fall/Winter GPA of at least 3.3. Continuation requirements for students in the new Honors program have been simplified considerably compared to those in place for the Pre-Fall 2024 Specialization and Honors programs. For reference, the continuation requirements for the Pre-Fall 2024 programs are summarized in the table on pages 40-42 in [Attachment 4](#). Note that many Pre-Fall 2024 Specialization and Honors programs have continuation requirements in addition to meeting a minimum Fall/Winter GPA. For example, students in a Pre-Fall 2024 Specialization/Honors program in Pharmacology need to present a minimum Fall/Winter GPA, a minimum Fall/Winter Science GPA, and a minimum Fall/Winter GPA on PMCOL courses (students in the Pre-Fall 2024 Honors in Pharmacology program additionally need to present a minimum grade of B- on each PMCOL course taken). For students in the new Honors program, we proposed to eliminate continuation requirements beyond meeting a minimum Fall/Winter GPA.

The proposed continuation requirements contained in [Attachment 3](#) intersect with proposed academic standing regulations contained in [Attachment 4](#) (see Article 2b under the heading Academic Standing).

In summary, the most pertinent similarities and differences are as follows:

- Continuation requirements and academic standing regulations for students in the new Major program are identical to those in place for students in the Pre-Fall 2024 BSc General program.
- There is a change in philosophy for students in the new Honors program compared to that in place for students in a Pre-Fall 2024 BSc Specialization/Honors program, as follows:
  - Students in a Pre-Fall 2024 Specialization/Honors program receive a *May Not Continue in Current Specialization/Honors Program* academic standing ruling for not meeting any one of the continuation requirements in place for their program, even if the fault is small and insignificant. Students have the right to appeal this ruling. While some students do, not all do, although all departments generously grant appeals for a first-time, minor fault.
  - We propose to assess academic standing for students in the new Honors program only on their Fall/Winter GPA.
  - We propose not to issue a *May Not Continue in Current Honors Program* academic standing ruling to students in the new Honors program who present a first-time, minor fault in their Fall/Winter GPA (no more than 0.3 grade points below the minimum required continuation GPA). In essence, such students will be granted a one-time, free pass to continue in their Honors program without the need to submit an appeal. These students will be offered the opportunity to transfer to the corresponding Major program if they wish so they are not forced to remain in the Honors program.
  - Because of simplified admission requirements, students in the new Honors program who received a May Not Continue academic standing ruling may be re-admitted to the Honors program after completing at least 24 units with a competitive AGPA.
- Our use of the terms Satisfactory Standing and Marginal Standing now is aligned with their definitions in the University Regulations section of the Calendar: any student with a Fall/Winter GPA of at least 2.0 is in Satisfactory Standing, although a student in the Honors program may not be able to continue in their program due to not meeting the continuation requirements of their program.

The simplified continuation requirements and academic standing regulations for students in the new Honors program are easier to explain to students, eliminate May Not Continue academic standing rulings for minor faults, and will permit much more efficient and streamlined academic standing and appeal processes at the completion of each Fall/Winter, without compromising the standards of our programs.

# Omission of First Class Standing for the Bachelor of Science (Major and Honors)

We have proposed to omit the First Class Standing honorific for students in the new Bachelor of Science (Major and Honors).

## Motivation

Currently, at the compilation of each Fall/Winter, First Class Standing (also referred to as the Dean's Honor Roll) is assigned to students who successfully completed at least 24 units with a minimum 3.5 GPA. For reference, see [Attachment 4](#), Academic Standing section, Article 2a.

We recognize that not all students are able to carry a course load of at least 24 units for a number of life circumstances (financial constraints, disability, family status, illness, etc.). Therefore, First Class Standing is available mostly to students who are in privileged circumstances (not limited by financial constraints, disability, family status, illness, etc.) to take this course load. Many students excel academically but are excluded from consideration for First Class Standing because they are unable to carry at least 24 units each Fall/Winter.

Under the University of Alberta's [Discrimination, Harassment, and Duty to Accommodate Policy](#), we cannot discriminate against students unable to carry at least 24 units for reasons of protected ground under human rights legislation. Further, the University of Alberta's [Strategic Plan for Equity, Diversity, and Inclusivity](#) encourages us to remove unequitable practices and processes.

In fairness to all, and in recognition of the aforementioned policy and strategic plan documents, the Faculty of Science has proposed to omit the First Class Standing honorific for students in the new Bachelor of Science (Major and Honors) program.

## History of the Proposal

- Spring 2019 (prior to the BSc Renewal Project): The Faculty of Science approved the removal of First Class Standing at the public Science Faculty Council. For reference, see [Attachment 5](#).
- Fall 2019: Science agreed to hold back the proposal from moving forward through Governance to allow other Faculties to join the proposal.
- Winter 2020: Due to the impacts of the Covid-19 pandemic, the proposal dropped off the radar screen.
- 2021-2023 (during the final stages of BSc Renewal): We decided to postpone the proposal further in favour of implementing the proposal only for the new Bachelor of Science (Major and Honors).

## Why Now?

The omission of First Class Standing would finalize Science's EDI efforts to remove inequitable course load requirements from its undergraduate programs. Previous efforts include:

- Fall 2019: Science received Governance approval for the removal of the minimum course load requirements from the graduation honorifics (With Distinction and First Class Honors). These changes appear in the 2020-2021 Calendar and onwards.
- Fall 2022: Science received Governance approval for the removal of minimum course load requirements from the continuation requirements in place for Pre-Fall 2024 BSc Specialization and Honors programs. These changes appear in the 2023-2024 Calendar.

The introduction of the new Bachelor of Science (Major and Honors) is a natural time to approve and implement this proposal.

## Precedent at the University of Alberta

The Faculty of Education does not award First Class Standing.

# Introduction of Graduation Requirements for the Bachelor of Science (Major and Honors)

Graduation requirements for the Bachelor of Science (Major) program are identical to those for the Pre-Fall 2024 BSc General program: students must meet the continuation requirements in their final Fall/Winter, achieve a GPA of at least 2.0 on the last 60 units (with letter grades) credited towards the degree, and achieve a Subject Area GPA of at least 2.3 (on all Subject Area Courses at the 200 level and above credited to the degree, with Subject Area Courses as defined in the Calendar).

Graduation requirements for the Bachelor of Science with Honors program are similar in spirit (the only difference is higher GPA requirements). These graduation requirements have been simplified considerably compared to those in place for the Pre-Fall 2024 programs, and harmonized across subject areas, without compromising the standards of our programs. For reference, the graduation requirements for the Pre-Fall 2024 programs are summarized in the table on pages 42-45 in [Attachment 4](#).

Faculty (& Department or Academic Unit):	Faculty of Science
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

All proposed changes are for admission to the Bachelor of Science (Major and Honors) program:

1. Note 3 for High School Applicants is reworded slightly in light of the fact that we decided to have two separate program codes in Campus Solutions (one for the Bachelor of Science program, and another for the Bachelor of Science with Honors program). This means that transfer from the Bachelor of Science (Major) program to the Bachelor of Science with Honors program requires a formal application.
2. We neglected to include admission requirements for Nonmatriculated Applicants when we overhauled this page last year in preparation for admission to the program for Fall 2024, and are correcting this oversight.
3. We anticipated being able to use performance in the subject area as an admission criterion, but this is not technologically feasible. We are therefore removing minimum subject area GPA requirements for admission (except for the Major/Honors in Mathematics and Finance and the Minor in Business, which are restricted-entry, quota programs).
4. Admission subjects for the Major in Mathematics and Finance: MATH 315 needs to be removed (since this course is not a subject area requirement, it should not be a requirement for admission).
5. We neglected to state the minimum AGPA for the Honors in Planning and Honors in Psychology subject areas, and are correcting this oversight.
6. We are moving the admission requirements for the Minor in Business from the Faculty of Science Regulations page, since they fit better on the Faculty of Science Admissions page. These requirements are unchanged; they are simply changing location.

Note to Calendar Editor: In the section Postsecondary Transfer Applicants, second paragraph, please link "Bachelor of Science (Major and Honors) - Changes to Program and/or Subject Area" to the heading "Changes to Program and/or Subject Area" that is on the Bachelor of Science (Major and Honors) page.

## Calendar Copy

URL in current Calendar (or "New page")  
<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12312>

Current Copy: ~~Removed language~~

Proposed Copy: **New language**

# Faculty of Science Admission Requirements

Admission to the Faculty of Science is competitive. Presentation of the minimum admission requirements and average does not guarantee admission to any given subject area (see [Undergraduate Admission, Admission Decision Process](#)). Applicants will be assessed on the basis of their academic records as described below.

- [Bachelor of Science \(Major and Honors\)](#)
- [Bachelor of Science \(Specialization in Science and Education\) and Bachelor of Education \(Secondary\) Combined Degrees](#)
- [Indigenous Applicants](#)
- [Visiting Students](#)
- [Special Students](#)

## Bachelor of Science (Major and Honors)

The Bachelor of Science degree is designed to provide students with a diversified

# Faculty of Science Admission Requirements

Admission to the Faculty of Science is competitive. Presentation of the minimum admission requirements and average does not guarantee admission to any given subject area (see [Undergraduate Admission, Admission Decision Process](#)). Applicants will be assessed on the basis of their academic records as described below.

- [Bachelor of Science \(Major and Honors\)](#)
- [Bachelor of Science \(Specialization in Science and Education\) and Bachelor of Education \(Secondary\) Combined Degrees](#)
- [Indigenous Applicants](#)
- [Visiting Students](#)
- [Special Students](#)

## Bachelor of Science (Major and Honors)

The Bachelor of Science degree is designed to provide students with a diversified



education and specialization in at least one subject area. Students in the Bachelor of Science degree must declare a Major subject area, and may declare a Minor subject area. Students in certain subject areas may declare a second Major subject area (from a list of eligible subject areas).

Alternatively, students may choose to complete a Bachelor of Science with Honors degree, which provides a challenging and rewarding learning experience within a subject area. It offers a greater depth of engagement, including a research or capstone experience, and demands a higher standard of performance. Students following this degree must declare an Honors subject area. They may declare a Minor subject area; they may not declare a second Major or Honors subject area.

**Notes:**

1. Certain subject areas are under enrolment management and therefore are competitive. Presentation of the minimum GPAs does not guarantee admission into these subject areas.
2. For information on transfer credit and credit by special assessment, see the corresponding section under [Faculty of Science Regulations](#).
3. Albertan applicants may be given preference for admission to the Planning subject area (Major and Honors).
4. For admission into BA or BA (Honors) in Mathematics or Psychology please

education and specialization in at least one subject area. Students in the Bachelor of Science degree must declare a Major subject area, and may declare a Minor subject area. Students in certain subject areas may declare a second Major subject area (from a list of eligible subject areas).

Alternatively, students may choose to complete a Bachelor of Science with Honors degree, which provides a challenging and rewarding learning experience within a subject area. It offers a greater depth of engagement, including a research or capstone experience, and demands a higher standard of performance. Students following this degree must declare an Honors subject area. They may declare a Minor subject area; they may not declare a second Major or Honors subject area.

**Notes:**

1. Certain subject areas are under enrolment management and therefore are competitive. Presentation of the minimum GPAs does not guarantee admission into these subject areas.
2. For information on transfer credit and credit by special assessment, see the corresponding section under [Faculty of Science Regulations](#).
3. Albertan applicants may be given preference for admission to the Planning subject area (Major and Honors).
4. For admission into BA or BA (Honors) in Mathematics or Psychology please

see [Bachelor of Arts](#) or [Bachelor of Arts Honors](#), respectively.

- [High School Applicants](#)
- [Postsecondary Transfer Applicants](#)
- [After Degree Applicants](#)

## High School Applicants

High school applicants will be considered for admission based on their average on the required five admission subjects outlined below. See [High School Applicants](#) for minimum grade and admission average requirements. Grade 12 courses listed below are based on the Alberta Education curriculum.

### Required Grade 12 Admission Subjects for Bachelor of Science:

1. English Language Arts 30-1
2. Mathematics 30-1
3. Two of Biology 30; Chemistry 30; Mathematics 31; Physics 30; Computing Science (CSE) Advanced Level-Career and Technology Studies (CTS)
4. Subject from Group A, B, or C

#### Notes:

1. Only 5-credit courses will be used for admission purposes.
2. High school applicants should be aware that their chosen program may

see [Bachelor of Arts](#) or [Bachelor of Arts Honors](#), respectively.

- [High School Applicants](#)
- [Nonmatriculated Applicants](#)
- [Postsecondary Transfer Applicants](#)
- [After Degree Applicants](#)

## High School Applicants

High school applicants will be considered for admission based on their average on the required five admission subjects outlined below. See [High School Applicants](#) for minimum grade and admission average requirements. Grade 12 courses listed below are based on the Alberta Education curriculum.

### Required Grade 12 Admission Subjects for Bachelor of Science:

1. English Language Arts 30-1
2. Mathematics 30-1
3. Two of Biology 30; Chemistry 30; Mathematics 31; Physics 30; Computing Science (CSE) Advanced Level-Career and Technology Studies (CTS)
4. Subject from Group A, B, or C

#### Notes:

1. Only 5-credit courses will be used for admission purposes.
2. High school applicants should be aware that their chosen program may

contain courses for which there are specific Grade 12 prerequisites that must be met in addition to the subjects used for admission. Please see the [Bachelor of Science Course Pre-requisites webpage](#) for more information.

3. Consideration for the Bachelor of Science with Honors degree requires a minimum application average of 80% on the required five admission subjects outlined above. ~~Students need not apply to the Honors program in the first year and may instead apply to the corresponding Major. Students may then apply in any subsequent year to switch into an Honors program by submitting a Statement of Major/Minor/Honors form to the Faculty of Science by the application deadline.~~

contain courses for which there are specific Grade 12 prerequisites that must be met in addition to the subjects used for admission. Please see the [Bachelor of Science Course Prerequisites webpage](#) for more information.

3. Consideration for the Bachelor of Science with Honors degree requires a minimum application average of 80% on the required five admission subjects outlined above. **It is not necessary to apply to the Bachelor of Science with Honors degree in the first year. Students may apply to transfer to the Bachelor of Science with Honors degree after completion of at least 24 units of course work transferable to the University of Alberta.**

## Nonmatriculated Applicants

**Nonmatriculated applicants are considered for admission based on their average on the following three admission subjects (only 5-credit courses will be used for admission purposes, and a minimum passing grade in each of the three admission subjects is required):**

1. Mathematics 30-1.
2. Two of Biology 30; Chemistry 30; Mathematics 31; Physics 30; Computing Science (CSE) Advanced Level-Career and Technology Studies (CTS).

## Postsecondary Transfer Applicants

~~This section applies to applicants with previous postsecondary education who are not currently registered in the Faculty of Science. Students currently registered in the Faculty of Science should see [Faculty of Science Regulations – Internal Changes to Program and/or Subject Area](#).~~

Applicants must meet the admission subject requirements as outlined in

Other requirements are:

1. Presentation of the Faculty of Science's competitive average on the three admission subjects listed above.
2. Presentation of no more than 6 units of postsecondary level course work. Any nonmatriculated applicant who has completed more than 6 units of postsecondary level course work will be assessed as a Postsecondary Transfer Applicant.
3. Presentation of minimum competitive AGPA on any postsecondary level course work presented.

Nonmatriculated applicants are only eligible for consideration for admission to the Bachelor of Science (Major) degree. Successful applicants may apply to transfer to the Bachelor of Science with Honors degree after completion of at least 24 units in the Bachelor of Science (Major) degree.

See also [Nonmatriculated Applicants](#).

## Postsecondary Transfer Applicants

See also [Postsecondary Transfer Applicants](#).

Students currently registered in the Faculty of Science should also see [Bachelor of Science \(Major and Honors\) - Changes to Program and/or Subject Area](#).

Applicants must meet the admission subject requirements as outlined in

Required Grade 12 Admission Subjects to be eligible for consideration.

**Applicants with 6 units or less of transferable postsecondary work** will be considered for admission as a High School Applicant (see High School Applicants).

**Applicants who have successfully completed more than 6 units and less than 24 units of course weight transferable to the University of Alberta** will be considered for admission on the basis of both their high school average (see High School Applicants) and their postsecondary Grade Point Averages as outlined in Minimum Grade Point Averages and Additional Criteria.

**Applicants with satisfactory standing in the Faculty of Science** who discontinued their postsecondary education for at least one year will be readmitted.

**Applicants with marginal standing in the Faculty of Science** who discontinued their postsecondary education for at least one year will be readmitted to a Major program on academic warning (see Academic Standing).

**Applicants who have never been required to withdraw** (or equivalent by the standards of the Faculty of Science) in their postsecondary education and who have successfully completed 24 units of course weight or more transferable to the University of Alberta may be considered for (re)admission on the basis of their postsecondary Grade Point Averages as outlined in Minimum Grade Point Averages and Additional Criteria.

Required Grade 12 Admission Subjects to be eligible for consideration.

**Applicants with 6 units or less of transferable postsecondary work** will be considered for admission as a High School Applicant (see High School Applicants).

**Applicants who have successfully completed more than 6 units and less than 24 units of course weight transferable to the University of Alberta** will be considered for admission on the basis of both their high school average (see High School Applicants) and their postsecondary Grade Point Averages as outlined in Minimum Grade Point Averages and Additional Criteria.

**Applicants with satisfactory standing in the Faculty of Science** who discontinued their postsecondary education for at least one year will be readmitted.

**Applicants with marginal standing in the Faculty of Science** who discontinued their postsecondary education for at least one year will be readmitted to a Major program on academic warning (see Academic Standing).

**Applicants who have never been required to withdraw** (or equivalent by the standards of the Faculty of Science) in their postsecondary education and who have successfully completed 24 units of course weight or more transferable to the University of Alberta may be considered for (re)admission on the basis of their postsecondary Grade Point Averages as outlined in Minimum Grade Point Averages and Additional Criteria.

**Applicants with one previous requirement to withdraw from the Faculty of Science** who have discontinued their postsecondary education for at least one year will be readmitted to a Major program on probation, subject to terms specified by the Associate Dean, Undergraduate.

**Applicants with one previous requirement to withdraw (or the equivalent by the standards of the Faculty of Science)** in their postsecondary education and who have chosen to requalify for admission by taking further postsecondary work (including the Fresh Start Program) may be considered for Fall admission or readmission. Subsequent to having been required to withdraw, such applicants must present 24 units of course weight transferable to the University of Alberta. Consideration for (re)admission will be on the basis of their postsecondary Grade Point Averages as outlined in [Minimum Grade Point Averages and Additional Criteria](#).

**Applicants who have been required to withdraw two times (or the equivalent by the standards of the Faculty of Science)** are ineligible for (re)admission to the Faculty of Science, except when the second requirement to withdraw was issued by the Faculty of Science (see [Academic Standing](#)).

**Applicants who have been required to withdraw three times (or the equivalent by the standards of the Faculty of Science)** are ineligible for (re)admission to the Faculty of Science.

**Applicants with one previous requirement to withdraw from the Faculty of Science** who have discontinued their postsecondary education for at least one year will be readmitted to a Major program on probation, subject to terms specified by the Associate Dean, Undergraduate.

**Applicants with one previous requirement to withdraw (or the equivalent by the standards of the Faculty of Science)** in their postsecondary education and who have chosen to requalify for admission by taking further postsecondary work (including the Fresh Start Program) may be considered for Fall admission or readmission. Subsequent to having been required to withdraw, such applicants must present 24 units of course weight transferable to the University of Alberta. Consideration for (re)admission will be on the basis of their postsecondary Grade Point Averages as outlined in [Minimum Grade Point Averages and Additional Criteria](#).

**Applicants who have been required to withdraw two times (or the equivalent by the standards of the Faculty of Science)** are ineligible for (re)admission to the Faculty of Science, except when the second requirement to withdraw was issued by the Faculty of Science (see [Academic Standing](#)).

**Applicants who have been required to withdraw three times (or the equivalent by the standards of the Faculty of Science)** are ineligible for (re)admission to the Faculty of Science.

**Applicants who have been expelled from any postsecondary institution** are ineligible for admission to the Faculty of Science.

### Minimum Grade Point Averages and Additional Criteria

**Major - all subject areas except Mathematics and Finance:**

1. A minimum 2.0 AGPA ~~and~~
- ~~2. A minimum 2.3 GPA on 200 level or higher subject area courses or their equivalents (if 9 units or more at the 200 level or higher in the subject area have been successfully completed). For applicants seeking to complete a double major, a minimum 2.3 GPA is required for each subject area.~~

**Major - Mathematics and Finance subject area:**

1. For Year 2 entry, a minimum 2.7 AGPA and a minimum 2.7 GPA on the

**Applicants who have been expelled from any postsecondary institution** are ineligible for admission to the Faculty of Science.

### Minimum Grade Point Averages and Additional Criteria

- Major - all subject areas except Mathematics and Finance
- Major - Mathematics and Finance subject area
- Honors - all subjects except Mathematics and Finance, Neuroscience, Planning, and Psychology
- Honors - Mathematics and Finance subject area
- Honors - Neuroscience subject area
- Honors - Planning subject area
- Honors - Psychology subject area
- Minor in Business

**Major - all subject areas except Mathematics and Finance:**

1. A minimum 2.0 AGPA.

**Major - Mathematics and Finance subject area:**

1. For Year 2 entry, a minimum 2.7 AGPA and a minimum 2.7 GPA on the

following courses (or their equivalents):

- ECON 101
- ECON 102
- MATH 125
- MATH 154
- MATH 156
- STAT 161
- 6 units in ENGL or WRS

2. For Year 3 entry, a minimum 2.7 AGPA, completion of 60 units, and a minimum 2.7 GPA on the following courses (or their equivalents):

- ECON 101
- ECON 102
- ECON 281
- MATH 125
- MATH 154
- MATH 156
- MATH 214
- ~~MATH 315~~
- MATH 225
- MATH 253
- STAT 161
- STAT 265
- STAT 266
- 6 units in ENGL or WRS

Honors - all subject areas except Mathematics and Finance, Neuroscience, Planning, and Psychology:

1. A minimum 3.0 AGPA ~~and~~
2. ~~A minimum 3.0 GPA on 200 level or higher subject area courses or their equivalents (if 9 units or more at the 200 level or higher in the subject area have been successfully completed).~~

following courses (or their equivalents):

- ECON 101
- ECON 102
- MATH 125
- MATH 154
- MATH 156
- STAT 161
- 6 units in ENGL or WRS

2. For Year 3 entry, a minimum 2.7 AGPA, completion of 60 units, and a minimum 2.7 GPA on the following courses (or their equivalents):

- ECON 101
- ECON 102
- ECON 281
- MATH 125
- MATH 154
- MATH 156
- MATH 214
- MATH 225
- MATH 253
- STAT 161
- STAT 265
- STAT 266
- 6 units in ENGL or WRS

Honors - all subject areas except Mathematics and Finance, Neuroscience, Planning, and Psychology:

1. A minimum 3.0 AGPA.



Honors - Mathematics and Finance subject area:

1. For Year 2 entry, a minimum 3.0 AGPA and a minimum 3.0 GPA on the following courses (or their equivalents):
  - ECON 101
  - ECON 102
  - MATH 117
  - MATH 118
  - MATH 127
  - STAT 161
  - 6 units in ENGL or WRS
2. For Year 3 entry, a minimum 3.0 AGPA, completion of 60 units, and a minimum 3.0 GPA on the following courses (or their equivalents):
  - ECON 101
  - ECON 102
  - ECON 281
  - MATH 117
  - MATH 118
  - MATH 127
  - MATH 217
  - MATH 227
  - MATH 253
  - MATH 317
  - STAT 161
  - STAT 265
  - STAT 266
  - 6 units in ENGL or WRS

Notes:

- MATH 154 and MATH 156 can be substituted for MATH 117 and MATH 118, respectively. In such cases, applicants should present MATH 216.
- MATH 125 can serve as a substitute for MATH 127.

Honors - Mathematics and Finance subject area:

1. For Year 2 entry, a minimum 3.0 AGPA and a minimum 3.0 GPA on the following courses (or their equivalents):
  - ECON 101
  - ECON 102
  - MATH 117
  - MATH 118
  - MATH 127
  - STAT 161
  - 6 units in ENGL or WRS
2. For Year 3 entry, a minimum 3.0 AGPA, completion of 60 units, and a minimum 3.0 GPA on the following courses (or their equivalents):
  - ECON 101
  - ECON 102
  - ECON 281
  - MATH 117
  - MATH 118
  - MATH 127
  - MATH 217
  - MATH 227
  - MATH 253
  - MATH 317
  - STAT 161
  - STAT 265
  - STAT 266
  - 6 units in ENGL or WRS

Notes:

- MATH 154 and MATH 156 can be substituted for MATH 117 and MATH 118, respectively. In such cases, applicants should present MATH 216.
- MATH 125 can serve as a substitute for MATH 127.

- MATH 225 can serve as a substitute for MATH 227. Applicants presenting MATH 225 will need to include MATH 325 in the degree.

Honors - Planning subject area:

~~Admission into the Honors Planning program is permitted after completion of a minimum of 48 units of course weight. Students must complete EAS 100 and HGEO 100 (or their equivalents). Admission is contingent upon securing a research supervisor by June 15. Students planning to apply for admission should contact the Department of Earth and Atmospheric Sciences.~~

Honors - Psychology subject area:

~~Admission into the Honors Psychology program is permitted after completion of a minimum of 48 units of course weight. Students must complete PSYCH 104 and PSYCH 105 (or their equivalents). Admission is contingent upon securing a research supervisor by June 15. Students planning to apply for admission should contact the Department of Psychology.~~

- MATH 225 can serve as a substitute for MATH 227. Applicants presenting MATH 225 will need to include MATH 325 in the degree.

Honors - Neuroscience subject area:

1. A minimum 3.3 AGPA.

Honors - Planning subject area:

1. A minimum 3.0 AGPA.
2. Successful completion of EAS 100 and HGEO 100 (or their equivalents).
3. Admission into the Honors Planning program is permitted after completion of a minimum of 48 units of course weight. Admission is contingent upon securing a research supervisor by June 15. Students planning to apply for admission should contact the Department of Earth and Atmospheric Sciences.

Honors - Psychology subject area:

1. A minimum 3.0 AGPA.
2. Successful completion of PSYCH 104 and PSYCH 105 (or their equivalents).
3. Admission into the Honors Psychology program is permitted after completion of a minimum of 48 units of course weight. Admission is contingent upon securing a research supervisor by June 15. Students planning to apply for admission should contact the Department of Psychology.

## Honors Neuroscience subject area:

1. A minimum 3.3 AGPA and
2. A minimum 3.3 GPA on 200 level or higher subject area courses or their equivalents (if 9 units or more at the 200 level or higher in the subject area have been successfully completed):

## Minor in Business

The Minor in Business requires completion of a minimum of 24 units and is competitive. To be considered for the Minor in Business, students must present:

1. A minimum 2.3 AGPA.
2. A minimum 2.3 GPA on the following courses, which must have been successfully completed:
  - 6 units in junior ENGL or 3 units in junior ENGL and 3 units in junior WRS
  - ECON 101 and ECON 102
  - One of MATH 117, MATH 134, MATH 144 or MATH 154
  - 3 units in additional Mathematical Sciences (Mathematics, Computing Science, or Statistics)
  - 6 units chosen from Biological Sciences, Chemistry, Earth and Atmospheric Sciences, Physics or Science Psychology.

In ranking students to meet the quota, 40% weight is given to the student's AGPA and 60% weight to the student's average on the required courses listed above. If a student has repeated a course, the first passing

	<p>grade is used to calculate the student's ranking. This ranking is normally completed at the end of Year 1, and preference is given to students who request the Minor in Business at that point in their program.</p>
--	---

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee: November 30, 2023</p>
--

<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p>
--

<p>Department of Mathematical and Statistical Sciences: Consulted on November 24, 2023, regarding the adjustment of admission subjects for the Major in Mathematics and Finance.</p>
--

Faculty (& Department or Academic Unit):	Faculty of Science
Contact Person:	Gerda de Vries, Associate Dean Undergraduate Jocelyn Hall, Associate Dean Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program
	<input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

**Program Requirements 2, 3, 4, 5, and 6:** Minor editorial corrections.

**Program Requirements 5, 8 (renumbered to 9), 7 (new), and 10 (new):** Requirement 5 includes the restriction that at least 6 units at the 300- and 400-level must be taken while registered in the Faculty of Science at the University of Alberta. This statement is incorrectly located (in the current location, it technically applies only to Minors from outside the Faculty of Science; it must be moved so that it applies to any Minor). Also, students do not need to be registered in the Faculty of Science while taking these courses (this would imply that we would not be able to use a course taken while registered in another Faculty); what matters is that the courses must be taken at the University of Alberta. We omitted analogous restrictions for 300- and 400-level courses at the degree level, and for the Major and Honors subject areas. The new Requirement 10 speaks to the minimum requirements for 300- and 400-level courses at the degree level (currently part of Requirement 8), and incorporates minima on the number of units that need to be taken at the University of Alberta. The new Requirement 7 speaks to 300- and 400-level courses in the subject area (Major/Honors/Minor) to be taken at the University of Alberta. The restrictions introduced in new Requirements 7 and 10 are comparable to restrictions that were in place for the BSc General program and some of the Specialization/Honors programs prior to BSc Renewal.

**Program Requirement 7 (renumbered to 8):** The exceptions stated here are incorrect. In particular, students in Honors Planning have room to take at most 60 units in Science courses (not 66), and students in Honors Mathematics and Finance take at least 75 units in Science courses by satisfying subject area and breadth requirements, and thus need no exception since they will meet the minimum standard of 72 units in Science courses.

**Addition of subheadings under Program Requirements:** The new subheadings facilitate advising students of the different categories of requirements that must be satisfied.

**Introduction of the section Residence Requirement:** The Residence Requirement introduced here is precisely the same as was in place for the BSc General and the Specialization/Honors program prior to BSc Renewal.

**Introduction of the section Academic Standing and Graduation:** Academic Standing and Graduation is a new section that specifies the continuation and graduation requirements for the Bachelor of Science (Major and Honors) program.

- Continuation requirements for the Bachelor of Science (Major) program are identical to those for the BSc General program.
- Continuation requirements for the Bachelor of Science with Honors program are similar in spirit (the only difference is a higher GPA requirement); they have been simplified considerably compared to those in place for many of the Specialization/Honors programs.
- Graduation requirements for the Bachelor of Science (Major) program are identical to those for the BSc General program.
- Graduation requirements for the Bachelor of Science with Honors program are similar in spirit (the only difference is higher GPA requirements); they have been simplified considerably compared to those in place for many of the Specialization/Honors programs.

**Introduction of the section Changes to Program and/or Subject Area:** This section is currently located on the Faculty of Science Regulations page, and is moved here (with edits that make this section agnostic of process details).

**Subject Areas Available from other Faculties:** We inadvertently included reference to the Arts and Cultural Management minor and need to remove this as an option for our students. The minor in Arts and Cultural Management is offered in conjunction with MacEwan University and available only to students in the Bachelor of Arts or Bachelor of Arts Honors program in the Faculty of Arts at the University of Alberta with an interest in the field. It is not available to students in the Faculty of Science.

**Note to Calendar Editor:** Earlier in the year, the addition of an Indigenous Course requirement was approved. The Indigenous Course requirement should appear between program requirements 1 and 2. So instead of 4 Common Course Requirements as shown below, there will be 5 Common Course Requirements.

## Calendar Copy

URL in current Calendar (or "New page")

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=50469&returnto=12349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=50469&returnto=12349)

Current Copy: ~~Removed language~~

Proposed Copy: **New language**

**Bachelor of Science  
(Major and Honors)**

**Bachelor of Science  
(Major and Honors)**

- [General Information](#)
- [Admission](#)
- [Regulations](#)

## General Information

---

The Bachelor of Science degree is designed to provide students with a diversified education and specialization in at least one subject area. Students in the Bachelor of Science degree must declare a Major subject area, and may declare a Minor subject area. Students in certain subject areas may declare a second Major subject area (from a list of eligible subject areas).

Alternatively, students may choose to complete a Bachelor of Science with Honors degree, which provides a challenging and rewarding learning experience within a subject area. It offers a greater depth of engagement, including a research or capstone experience, and demands a higher standard of performance. Students following this path must declare an Honors subject area. They may declare a Minor subject area; they may not declare a second Major or Honors subject area.

## Admission

---

- [General Undergraduate Admission Requirements](#)
- [Faculty of Science Admission Requirements](#)

## Regulations

---

- [University Regulations](#)
- [Faculty of Science Regulations](#)

Students must ensure they are familiar with and follow all University Regulations and Faculty of

- [Program Requirements](#)
- [Residence Requirement](#)
- [Academic Standing and Graduation](#)
- [Changes to Program and/or Subject Area](#)
- [Subject Areas](#)

## General Information

---

The Bachelor of Science degree is designed to provide students with a diversified education and specialization in at least one subject area. Students in the Bachelor of Science degree must declare a Major subject area, and may declare a Minor subject area. Students in certain subject areas may declare a second Major subject area (from a list of eligible subject areas).

Alternatively, students may choose to complete a Bachelor of Science with Honors degree, which provides a challenging and rewarding learning experience within a subject area. It offers a greater depth of engagement, including a research or capstone experience, and demands a higher standard of performance. Students following this path must declare an Honors subject area. They may declare a Minor subject area; they may not declare a second Major or Honors subject area.

## Admission

---

- [General Undergraduate Admission Requirements](#)
- [Faculty of Science Admission Requirements](#)

## Regulations

---

- [University Regulations](#)
- [Faculty of Science Regulations](#)

Students must ensure they are familiar with and follow all University Regulations and Faculty of

Science Regulations in addition to the program requirements outlined below.

## Program Requirements

The Bachelor of Science (Major and Honors) degree requires the successful completion of 120 units including the following:

1. **Communication/Writing Courses:** Successful completion of a minimum of 6 units in English (ENGL) or Writing Studies (WRS).
2. **Breadth from Outside the Faculty of Science:** Successful completion of a minimum of 6 units, with at least 3 units from two of the following categories:
  - Applied Sciences
  - Business
  - Humanities, Fine Arts, and Performing Arts
  - Social Sciences

See the [Breadth from Outside the Faculty of Science Course Lists for Bachelor of Science \(Major and Honors\)](#) for eligible courses in each of the above categories. Courses taken to **fulfill** Major/Minor/Honors requirements may also be used to satisfy this breadth requirement.

3. **Breadth from Within the Faculty of Science:** Successful completion of a minimum of 9 units, with at least 3 units from each of the following categories:
  - Basic Sciences (i.e., common high school course offerings)
  - Formal Sciences (i.e., primarily numerical in nature or based in logic)

Science Regulations in addition to the program requirements outlined below.

## Program Requirements

The Bachelor of Science (Major and Honors) degree requires the successful completion of 120 units including the following:

- [Common Course Requirements](#)
- [Major/Minor/Honors Requirements](#)
- [Science and Senior Level Course Requirements](#)

### Common Course Requirements

1. **Communication/Writing Courses:** Successful completion of a minimum of 6 units in English (ENGL) or Writing Studies (WRS).
2. **Breadth from Outside the Faculty of Science:** Successful completion of a minimum of 6 units, with at least 3 units from two of the following categories:
  - Applied Sciences
  - Business
  - Humanities, Fine Arts, and Performing Arts
  - Social Sciences

See the [Breadth from Outside the Faculty of Science Course Lists for Bachelor of Science \(Major and Honors\)](#) for eligible courses in each of the above categories. Courses taken to **satisfy** Major/Minor/Honors requirements may also be used to satisfy this breadth requirement.

3. **Breadth from Within the Faculty of Science:** Successful completion of a minimum of 9 units, with at least 3 units from each of the following categories:
  - Basic Sciences (i.e., common high school course offerings)
  - Formal Sciences (i.e., primarily numerical in nature or based in logic)



- Specialized Sciences (i.e., uncommon high school course offerings)

See the [Breadth from Within the Faculty of Science Course Lists for Bachelor of Science \(Major and Honors\)](#) for eligible courses in each of the above categories. Courses taken to **fulfill** Major/Minor/Honors requirements may also be used to satisfy this breadth requirement.

4. **Lab/Field Experience:** Successful completion of a minimum of 3 units in a Science course that includes substantial and meaningful lab or field experience, where students are required to engage in the analysis and interpretation of authentic data or observations that reflect the uncertain nature of science. See the [Lab/Field Experience Course List for Bachelor of Science \(Major and Honors\)](#) for eligible courses. Courses taken to **fulfill** Major/Minor/Honors requirements, or the Breadth from Within the Faculty of Science requirement, may also be used to satisfy the Lab/Field Experience requirement.

5. **Major/Minor/Honors:** Students in the Bachelor of Science (Major **program**) must declare a Major subject area, and may declare a Minor (in a different subject area). Students in certain subject areas may declare a second Major (in a different subject area, from a list of eligible subject areas). Students in the Bachelor of Science (**Honors program**) must declare an Honors subject area. They may declare a Minor (in a different subject area); they may not declare a second Major or Honors subject area. See the [Subject Areas](#) table below for a list of subject areas that may be declared, the available Major/Minor/Honors, the subject areas that are eligible for a Double Major, and exceptions to the Minor/Double Major combinations allowed. The requirements that must be completed for each Major/Minor/Honors can be found by selecting

- Specialized Sciences (i.e., uncommon high school course offerings)

See the [Breadth from Within the Faculty of Science Course Lists for Bachelor of Science \(Major and Honors\)](#) for eligible courses in each of the above categories. Courses taken to **satisfy** Major/Minor/Honors requirements may also be used to satisfy this breadth requirement.

4. **Lab/Field Experience:** Successful completion of a minimum of 3 units in a Science course that includes substantial and meaningful lab or field experience, where students are required to engage in the analysis and interpretation of authentic data or observations that reflect the uncertain nature of science. See the [Lab/Field Experience Course List for Bachelor of Science \(Major and Honors\)](#) for eligible courses. Courses taken to **satisfy** Major/Minor/Honors requirements, or the Breadth from Within the Faculty of Science requirement, may also be used to satisfy the Lab/Field Experience requirement.

### Major/Minor/Honors Requirements

5. **Major/Minor/Honors:** Students in the Bachelor of Science (Major **program**) must declare a Major subject area, and may declare a Minor (in a different subject area). Students in certain subject areas may declare a second Major (in a different subject area, from a list of eligible subject areas). Students in the Bachelor of Science **with Honors program** must declare an Honors subject area. They may declare a Minor (in a different subject area); they may not declare a second Major or Honors subject area. See the [Subject Areas](#) table below for a list of subject areas that may be declared, the available Major/Minor/Honors, the subject areas that are eligible for a Double Major, and exceptions to the Minor/Double Major combinations allowed. The requirements that must be completed for each Major/Minor/Honors can be found by selecting

the respective subject area links in the table.

Some courses in certain subject areas may have prerequisites not included in the Major/Minor/Honors requirements. Students must plan accordingly to ensure these prerequisites are successfully completed (and included in the 120 units toward the degree) prior to attempting the associated Major/Minor/Honors course requirements.

Students completing a Major/Minor, Honors/Minor or Double Major combination must ensure they complete the requirements for both subject areas within 120 units, which may be difficult to do with certain combinations. Students are advised to consult with an Academic Advisor to ensure this requirement is met.

Minors from outside of the Faculty of Science must include at least 24 units. ~~At least 6 units in 300- or 400-level courses must be taken while registered in the Faculty of Science at the University of Alberta.~~ Students are responsible for meeting both the Faculty of Science Minor requirements and any outside Faculty or department-specified course requirements.

~~For regulations governing internal changes related to Major/Honors programs and/or subject areas, please see [Faculty of Science Regulations](#).~~

6. **Double-counted Courses:** Some courses may be listed in the requirements for more than one Major/Minor/Honors subject area.
- There is no limit on how many 100- and 200-level courses can be double-counted in a Major/Minor, Honors/Minor, or Double Major combination.
  - For a Major/Minor or Honors/Minor combination, 300- and 400-level courses cannot be double-counted. Requirements at the 300- and 400-level must be satisfied separately; a 300- or 400-level course required by both

the respective subject area links in the table.

Some courses in certain subject areas may have prerequisites not included in the Major/Minor/Honors requirements. Students must plan accordingly to ensure these prerequisites are successfully completed (and included in the 120 units toward the degree) prior to attempting the associated Major/Minor/Honors course requirements.

Students completing a Major/Minor, Honors/Minor or Double Major combination must ensure they complete the requirements for both subject areas within 120 units, which may be difficult to do with certain combinations. Students are advised to consult with an Academic Advisor to ensure this requirement is met.

Minors from outside of the Faculty of Science must include at least 24 units. Students are responsible for meeting both the Faculty of Science Minor requirements and any outside Faculty or department-specified course requirements.

6. **Double-counted Courses:** Some courses may be listed in the requirements for more than one Major/Minor/Honors subject area.
- a. There is no limit on how many 100- and 200-level courses can be double-counted in a Major/Minor, Honors/Minor, or Double Major combination.
  - b. For a Major/Minor or Honors/Minor combination, 300- and 400-level courses cannot be double-counted. Requirements at the 300- and 400-level must be satisfied separately; a 300- or 400-level course required by both

subject areas may be credited toward only one subject area and must be substituted by an approved 300- or 400-level course for the other subject area. Students must consult an Academic Advisor for approved course substitutions.

- For a Double Major, up to 6 units in 300- and 400-level courses can be double-counted. Any 300- or 400-level courses required by both subject areas beyond this 6 unit limit may be credited toward only one subject area and must be substituted by an approved 300- or 400-level course for the other subject area. Students must consult an Academic Advisor for approved course substitutions.

**7. Science Courses:** Successful completion of a minimum of 72 units in Science courses for credit to the degree. Students completing a Major or Honors in Planning, Mathematics and Economics, or Mathematics and Finance are only required to reach a minimum of 66 units in Science courses.

subject areas may be credited toward only one subject area and must be substituted by an approved 300- or 400-level course for the other subject area. Students must consult an Academic Advisor for approved course substitutions.

- c. For a Double Major, up to 6 units in 300- and 400-level courses can be double-counted. Any 300- or 400-level courses required by both subject areas beyond this 6 unit limit may be credited toward only one subject area and must be substituted by an approved 300- or 400-level course for the other subject area. Students must consult an Academic Advisor for approved course substitutions.

**7. 300- and 400-level Courses in the Subject Area(s)**

- All 400-level courses required for a Major or Honors subject area must be taken at the University of Alberta, and at most 6 units at the 300- or 400-level from another institution can be credited towards a Major or Honors subject area.
- A Minor subject area requires the successful completion of a minimum of 6 units at the 300- or 400-level taken at the University of Alberta.

Exceptions to this requirement for the purposes of [Study Abroad](#) or equivalent must be approved by the Associate Dean, Undergraduate, or designate.

**Science and Senior Level Course Requirements**

- 8. Science Courses:** Successful completion of a minimum of 72 units in Science courses. Exceptions to this requirement are in place for students completing a Major or Honors in certain subject areas, as follows:
  - Honors in Planning: Successful completion of a minimum of 60 units in Science courses.

**8. Senior Courses:** Successful completion of a minimum of 78 units at the 200-level or higher (and therefore, a maximum of 42 units at the 100-level is permitted for credit to the degree). In addition, Major programs require the successful completion of a minimum of 36 units at the 300-level or higher and Honors programs require the successful completion of a minimum of 42 units at the 300-level or higher.

- Major in Planning, Major or Honors in Mathematics and Economics, and Major in Mathematics and Finance: Successful completion of a minimum of 66 units in Science courses.

**9. Senior Courses:** Successful completion of a minimum of 78 units at the 200-level or higher (and therefore, a maximum of 42 units at the 100-level is permitted for credit to the degree).

**10. 300- and 400-level Courses in the Degree:**

- The Bachelor of Science (Major) program requires the successful completion of a minimum of 36 units at the 300- or 400-level, including at least 24 units taken at the University of Alberta.
- The Bachelor of Science with Honors program requires the successful completion of a minimum of 42 units at the 300- or 400-level, including at least 30 units taken at the University of Alberta.

Exceptions to this requirement for the purposes of [Study Abroad](#) or equivalent must be approved by the Associate Dean, Undergraduate, or designate.

**Residence Requirement**

A student transferring to the Faculty of Science's Bachelor of Science (Major and Honors) program with advanced standing must complete at least 60 units applicable to the program while registered at the University of Alberta. Normally, at least 30 of the last 60 units must be completed while registered in the Faculty of Science.

## Academic Standing and Graduation

1. Continuation Requirements (also see [Faculty of Science Regulations - Academic Standing](#)):
  - a. Continuation in the Bachelor of Science program requires a GPA of at least 2.0 in the preceding Fall/Winter.
  - b. Continuation in the Bachelor of Science with Honors program in all subject areas except Neuroscience requires a GPA of at least 3.0 in the preceding Fall/Winter.
  - c. Continuation in the Bachelor of Science with Honors program in the Neuroscience subject area requires a GPA of at least 3.3 in the preceding Fall/Winter.
2. Graduation Requirements (also see [Faculty of Science Regulations - Graduation](#)):
  - a. Students must meet the continuation requirements in their final Fall/Winter in order to graduate.
  - b. The following requirements also must be met:
    - i. For the Bachelor of Science degree:
      - I. A minimum 2.0 GPA on the last 60 units of course weight in courses with letter grades credited to the degree.
      - II. A minimum 2.3 Subject Area GPA. Students graduating with a Double Major must meet the minimum 2.3 Subject Area GPA for both Major subject areas.
    - ii. For the Bachelor of Science with Honors degree in any subject area except Neuroscience:
      - I. A minimum 3.0 GPA on the last 60 units of

course weight in courses with letter grades credited to the degree.

a. A minimum 3.0 Subject Area GPA.

iii. For the Bachelor of Science with Honors degree in the Neuroscience subject area:

I. A minimum 3.3 GPA on the last 60 units of course weight in courses with letter grades credited to the degree.

II. A minimum 3.3 Subject Area GPA.

**Note:** If determination of the last 60 units of course weight in courses with letter grades requires consideration of one or more courses from a given term, then all work from that term is included in the calculation. Normally, only University of Alberta courses will be used in the calculation of the GPA for the last 60 units of course weight in courses with letter grades.

## Changes to Program and/or Subject Area

- [Declaring/Changing a Major Subject Area](#)
- [Changing an Honors Subject Area](#)
- [Declaring/Changing a Minor Subject Area](#)
- [Transferring Between the Major and Honors Programs](#)

## Declaring/Changing a Major Subject Area

Students in the Bachelor of Science program whose Major subject area is Undeclared must declare their Major subject area (and second Major subject area, if applicable) prior to accumulating 60 units towards

their program. Students may have their second Major subject area removed prior to graduation.

Changing a Major subject area is not normally permitted once 90 units have been accumulated towards the degree program.

Admission into certain Major subject areas is competitive and may require an application.

### **Changing an Honors Subject Area**

Changing an Honors subject area is not normally permitted once 90 units have been accumulated towards the degree program.

Admission into certain Honors subject areas is competitive and may require an application.

### **Declaring/Changing a Minor Subject Area**

Students choosing to complete a Minor must declare their Minor subject area prior to accumulating 75 units towards their program. Students may have their Minor subject area removed prior to graduation.

Changing a Minor subject area is not normally permitted once 90 units have been accumulated towards the degree program.

Admission to the Minor in Business requires completion of a minimum of 24 units and is competitive. For details, see [Faculty of Science Admission Requirements](#).

### **Transferring between the Major and Honors Programs**

Students wishing to transfer from the Bachelor of Science program to the Bachelor of Science with Honors program, or vice versa, must submit an application.



## **Subject Areas**

**Subject Areas Offered by the Faculty of Science:**

## **Subject Areas**

**Subject Areas Offered by the Faculty of Science:**

<p>Subject Areas Available from other Faculties:</p> <p><i>[see below (left/right column format not feasible)]</i></p>	<p>Subject Areas Available from other Faculties:</p> <p><i>[see below (left/right column format not feasible)]</i></p>
--	--

**Subject Areas Available from other Faculties:**

	Honors	Major	Minor	Eligible for Double Major	Minor & Double Major Exception
...					
<a href="#">Art and Design [ARTS]</a>			X		
<a href="#">Arts and Cultural Management [ARTS]</a>			X		
<a href="#">Business [BUS]</a>			X		May not be combined with Mathematics and Finance (Honors or Major)
...					

**Reviewed/Approved by:**

<p>REQUIRED: Faculty Council (or delegate) and approval date.</p> <p>Science Undergraduate Programs Committee: November 30, 2023</p>
<p>OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.</p> <p>November 21, 2023: Consultation with the Department of Mathematical and Statistical Sciences (re: Requirement #7 for Honors in Mathematics and Finance)</p>



November 21, 2023: Consultation with the Department of Earth and Atmospheric Sciences (re: Requirement #7 for Honors in Planning)

Faculty (& Department or Academic Unit):	Faculty of Science
Contact Person:	Gerda de Vries, Associate Dean, Undergraduate Jocelyn Hall, Associate Dean, Undergraduate
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input type="checkbox"/> Program
	<input checked="" type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	No

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

### Faculty of Science General Information:

We are greatly reducing the amount of editorial information on the Faculty of Science General Information page as per the recommendations of the Calendar Editor. All of the information removed from this page is available on the Faculty of Science webpages or other Calendar pages as noted below:

- Certificates: The information here is duplicated (from the [Programs](#) page in the Calendar) and redundant.
- Geophysics (and the Professional Association subheading): The pertinent information is available on the [Programs](#) page of the Faculty of Science webpage and the [Geophysics Subject Area](#) page in the Calendar.
- Marine Science: Pertinent and up-to-date information is available on the [Marine Science Field School](#) page of the Department of Biological Sciences.
- Northern Studies: This information is out-of-date.
- Professional Registration: The pertinent information is available in the Department of Earth and Atmospheric Sciences section on the [Programs](#) page of the Faculty of Science webpage, and also on the [Earth Sciences Subject Area](#), [Environmental Earth Sciences Subject Area](#), [Geology Subject Area](#), and [Paleontology Subject Area](#) pages in the Calendar.

The new sections Faculty Overview and Undergraduate Admissions contains information moved (in edited form) from the Faculty of Science Regulations page.

### Faculty of Science Regulations:

- Reflect the establishment of the new Bachelor of Science degree program framework, as realized through the BSc Renewal Project (effective Fall 2024).
  - a. Academic Standing for the Pre-Fall 2024 programs remains essentially the same (except for a minor correction related to deferring academic standing that reflects both current practice and the introduction of Exploration Credits). Continuation requirements for the Pre-Fall 2024 programs are specified on program pages that will no longer be in the 2024/25 Calendar onwards. To ensure transparency for students registered in a Pre-Fall 2024 program for the next few years, we are explicitly including the continuation requirements in paragraph 2(a)(ii) of the Academic Standing section. Note that we are keeping the First Class Standing category for students in a Pre-Fall 2024 program. Also note that students in a Specialization or Honors program are not considered in Satisfactory Standing if they do not meet the continuation requirements of their program, even if the Fall/Winter GPA is 2.0 or better. We correct this in the Academic Standing regulations for students in the new degree programs.

- b. Academic Standing for the new degree programs is introduced in paragraph 2(b) of the Academic Standing section. Note that we are eliminating the First Class Standing category for students in the new degree programs. This is in accordance with the motion to remove First Class Standing for EDI reasons, approved by the Faculty of Science Council in May 2019. Also note that Satisfactory Standing better follows the definition in University Regulations (any student with a Fall/Winter GPA of 2.0 or better will be in Satisfactory Standing, but students in the Honors program may not be able to continue in the Honors program if they do not meet the continuation requirements).
  - c. Graduation requirements for the Pre-Fall 2024 programs are specified on program pages that will no longer be in the 2024/25 Calendar onwards. To ensure transparency for students registered in a Pre-Fall 2024 program for the next few years, we are explicitly including the graduation requirements in paragraph 1(a) of the Graduation section.
- The requirements for graduation honorifics (First Class Standing and With Distinction) are updated in response to the introduction of Exploration Credits (ensuring that these honorifics are awarded on the basis of a GPA on the last 60 units of courses with letter grades and not a mix of letter grades and CR).
  - Fine tune regulations to reflect current practice, for example, the section on Reexaminations.
  - The second paragraph in the section Selection of Courses preserves the regulation that Departments have the right to remove students from courses for failing to present a passing grade in the prerequisite course(s) and/or for failing to be enrolled in the corequisite course(s). This regulation is currently located on the program pages for the Pre-Fall 2024 programs that will no longer be in the 2024/25 Calendar onwards. It is important to preserve this regulation.
  - Remove informational content:
    - a. Some informational content is moved to the Faculty of Science General Information page, for example the pertinent information from the Faculty Overview, Degrees, and Admission sections.
    - b. Redundant content is removed, for example, definitions of terms that already are in the Calendar's Glossary.
  - The section Internal Changes to Program and/or Subject Area is moved to the Bachelor of Science (Major and Honors) page, except admission requirements for the Minor in Business, which are moved to the Faculty of Science Admissions page.

**Faculty of Science Courses:**

This page can be removed. Some of the information is redundant (such as the information in the Prerequisites section, since prerequisites are defined elsewhere in the Calendar). The remaining pertinent information is regulatory and is being moved to the Faculty of Science Regulations page (where we also have regulations pertaining to courses). Consolidating regulations about courses in one location will reduce confusion about which regulations are located where and reduce opportunities for missing important regulations.

## Calendar Copy

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12313>

**Current Copy:** ~~Removed language~~

**Proposed Copy:** New language

## Faculty of Science General Information

- [Members of the Faculty](#)
- [Certificates](#)
- [Geophysics](#)
- [Professional Association](#)
- [Marine Science](#)
- [Northern Studies](#)
- [Professional Registration](#)

[moved up here, with minor editorial correction, from Faculty of Science Regulations below]

## Members of the Faculty

Listings of the members of the Faculty can be found in the [Faculty of Science Directory](#).

## Faculty of Science General Information

- [Faculty Overview](#)
- [Members of the Faculty](#)
- [Undergraduate Admissions](#)
- [Graduate Admissions](#)

## Faculty Overview

The Faculty of Science at the University of Alberta is a world leader in science education and research. It offers undergraduate programs leading to Bachelor of Science and Bachelor of Science with Honors degrees, an undergraduate program leading to Bachelor of Science Specialization in Science and Education / Bachelor of Education in Secondary Education Combined Degrees, undergraduate embedded certificates, as well as graduate programs leading to Master of Science and Doctor of Philosophy degrees.

To find descriptions of the various programs available in Science, visit [Programs](#) on the Faculty of Science website. Undergraduate program requirements can be found on the [Undergraduate Programs](#) Calendar page; graduate program requirements can be found on the [Graduate Programs](#) page.

A Science Internship Program (SIP) is available to students registered in a Bachelor of Science or Bachelor of Science with Honors program to enhance their studies and provide relevant work experience. For more details, see [Science Internship Program](#).

## Members of the Faculty

Listings of the members of the Faculty can be found in the [Faculty of Science Directory](#) or through the departmental websites:

- [Biological Sciences](#)
- [Chemistry](#)

[moved up here, with minor editorial correction, from Faculty of Science Regulations below]

## Certificates

The Faculty of Science offers certificates to graduating students which formally acknowledge that students have studied particular themes. These themes can be concentrations within a discipline, or subjects that cross interdisciplinary boundaries. Normally the requirements for the certificates can be completed as part of the requirements for the degree; however, in some cases, a student may need to take more than the minimum required for their degree program in order to qualify for both the degree and the certificate. The following certificates are available:

- [Research Certificate in Science \(Biological Sciences\)](#)
- [Research Certificate in Science \(Psychology\)](#)

## Certificate in Computer Game Development:

The Certificate in Computer Game Development is a joint certificate offered by the Faculties of Arts and Science and is open to any undergraduate student at the University of Alberta. The certificate complements discipline-specific studies with courses that provide opportunities to work in multidisciplinary teams, build

- [Computing Science](#)
- [Earth and Atmospheric Sciences](#)
- [Mathematical and Statistical Sciences](#)
- [Physics](#)
- [Psychology](#)

## Undergraduate Admissions

General admission requirements for the University are set out in [General Undergraduate Admission Requirements](#). Specific admission information for the Faculty of Science is detailed in [Faculty of Science Admission Requirements](#).

## Graduate Admissions

See [Graduate Admissions](#).

complete small and medium-scale games, and interact with industry. Details of the courses and other requirements for the certificate can be found in [Certificate in Computer Game Development](#) of the University Calendar in the Faculty of Arts Programs.

### **Certificate in Engaged Leadership and Citizenship in Arts and Science:**

Effective September 2022, there will be no further admission to this embedded certificate. Students who declared the certificate prior to September 2022 must complete all certificate requirements by April 30, 2027. The last Certificate in Engaged Leadership and Citizenship in Arts and Science will be granted at Spring Convocation 2027. Continuing students must refer to the Calendar in effect when they declared the certificate for program requirements.

The Certificate in Engaged Leadership and Citizenship in Arts and Science is a joint certificate offered by the Faculties of Arts and Science and is open to any undergraduate student at the University of Alberta.

Students wishing to pursue the Certificate in Engaged Leadership and Citizenship in Arts and Science must apply through Undergraduate Student Services in the Faculty of Arts or through Undergraduate Student Services in the Faculty of Science by the application deadline for convocation (see [Academic Schedule](#)). Details of the courses and other requirements for the certificate can be found in [Certificate in Engaged Leadership and Citizenship in Arts and Science \[Arts\]](#) of the University Calendar in the Faculty of Arts Programs.

### **Geophysics**

The Department of Physics offers two programs dealing with solid earth physics. The Honors in Geophysics program (see [Honors in Geophysics](#)) prepares students for graduate work in geophysics. The [Specialization in Geophysics](#) program prepares students with the conceptual and laboratory background required for employment at the BSc level in industry, government and technical schools. Also see [Physics Honors Programs](#) and [Physics Specialization Programs](#) (Physics).

## Professional Association

The practice of geophysics in Alberta is regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

The right to practise geophysics in Alberta and accept professional responsibility for such work as well as the right to use the geophysicist title is limited to those registered with APEGA.

Members of the Geophysics Student Society are automatically student members of APEGA. Graduates are encouraged to join APEGA as Geophysicists-in-training. Acceptable experience following graduation is necessary for registration as a Professional Geophysicist, the APEGA membership category which confers the right to accept responsibility for geophysical work. Contact the APEGA office for more information.

## Marine Science

Excellent opportunities for the study of marine biology and related subjects exist at Bamfield Marine Sciences Centre (BMSC) on Vancouver Island, BC. An academic program operates at the station, with summer and fall programs providing credit toward degrees in Science.

Prerequisite for all the MA-SC courses is consent of the Department of Biological Sciences.

Students are expected to take a full course load of 15 units of course weight during the Fall Term. Courses run Monday to Saturday.

In addition to tuition paid to the University there are room and board fees payable to BMSC. Information concerning course prerequisites and application procedures for Marine Science may be obtained from BMSC, the Department of Biological Sciences or the Office of the Dean of Science. Permission to register in these courses is available from the University Programs Coordinator of the Bamfield Marine

Sciences Centre, to whom application should be made. See BMSC website [www.bamfieldmsec.com](http://www.bamfieldmsec.com).

See [Course Listings](#) for descriptions of available Marine Science courses.

See also BMSC website [www.bamfieldmsec.com](http://www.bamfieldmsec.com) for courses offered in the current year.

## Northern Studies

Students interested in Canada's North and especially those planning a career in northern Canada should include within their curriculum some of the following: ANTHR 246, 340, 355, 445, and 446; BIOL 366; GANST 302 and 408; EAS 453 and 455; ENGS 201; INT-D 443; POL S 432. These courses may be taken within the framework of existing General, Specialization, or Honors programs in the Faculty of Science. Students interested in Northern Studies should mention this to their faculty advisor.

## Professional Registration

Graduates of EAS programs may qualify for registration as professional geologists (P. Geol.). The practice of geology in Alberta is governed by provincial law in the interest of public protection against unskilled practice. The right to practice independently (meaning that you are legally able to accept responsibility for your work and sign for it), and the right to use the title of professional geologist (P. Geol.), are restricted to individuals registered by the Association of Professional Engineers and Geoscientists of Alberta (APEGA). Members of the PS Warren student society are automatically student members of APEGA and as such are introduced to the professional association.

Individuals who are planning to meet the knowledge requirements for P. Geol. while also completing their degree at the University of Alberta should plan their program course selection carefully. Attention is drawn in particular to the science subject requirements, additional to calculus, physics and chemistry. APEGA verifies that specific knowledge requirements are met, by reviewing academic credentials course-by-course. Holders of degrees that do not



<p>cover the APEGA syllabus may be assessed examinations in missing subjects by the APEGA Board of Examiners before being accepted for registration. Current syllabus and registration information is available at the Departmental Office or from APEGA. Full information is available at <a href="http://www.apega.ca">www.apega.ca</a></p>	
<p>Specific questions about programs of study or individual courses applicable to professional registration can also be directed to the Departmental APEGA Liaison.</p>	

<p>URL in current Calendar (or "New page")  <a href="https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12231">https://calendar.ualberta.ca/content.php?catoid=39&amp;navoid=12231</a></p>	
<p>Current Copy: <del>Removed language</del></p>	<p>Proposed Copy: <b>New language</b></p>
<h2 style="text-align: center;">Faculty of Science Regulations</h2> <ul style="list-style-type: none"> <li>• <del>Faculty Overview</del></li> <li>• <del>Degrees</del></li> <li>• <del>Admission</del></li> <li>• <a href="#">Transfer Credit</a></li> <li>• <a href="#">Credit by Special Assessment</a></li> <li>• <del>Definitions</del></li> <li>• <a href="#">Academic Standing</a></li> <li>• <del>Scholarship, First-Class Standing</del></li> <li>• <a href="#">Graduation Year</a></li> <li>• <a href="#">Reexamination</a></li> <li>• <del>Courses</del></li>   <li>• <del>Internal Changes to Program and/or Subject Area</del></li> <li>• <a href="#">Graduation</a></li> <li>• <a href="#">Appeals and Grievances</a></li> <li>• <del>Visiting Student Status</del></li>   <li>• <a href="#">Study Abroad</a></li> <li>• <a href="#">Science Internship Program</a></li> </ul>	<h2 style="text-align: center;">Faculty of Science Regulations</h2> <ul style="list-style-type: none"> <li>• <b>Definitions</b></li> <li>• <a href="#">Transfer Credit</a></li> <li>• <a href="#">Credit by Special Assessment</a></li>   <li>• <a href="#">Academic Standing</a></li>   <li>• <a href="#">Graduation Year</a></li> <li>• <a href="#">Reexamination</a></li> <li>• <b>Selection of Courses</b></li> <li>• <b>Repeating Courses</b></li> <li>• <b>Course Load Limits</b></li> <li>• <b>Course Exclusion Lists</b></li> <li>• <b>Graduate Courses</b></li>   <li>• <a href="#">Graduation</a></li> <li>• <a href="#">Appeals and Grievances</a></li> <li>• <b>Registration at Other Postsecondary Institutions</b></li> <li>• <a href="#">Study Abroad</a></li> <li>• <a href="#">Science Internship Program</a></li> </ul>

- [Science After Degrees](#)

## Faculty Overview

The Faculty of Science offers degrees in Applied Mathematics, Astrophysics, Biochemistry, Biological Sciences (Ecology, Evolution and Environmental Biology; Integrative Physiology; and Molecular, Cellular and Developmental Biology), Chemistry, Cell Biology, Computing Science, Computing Science with Business Minor, Environmental Earth Sciences, Geology, Geophysics, Immunology and Infection, Mathematical Physics, Mathematics, Mathematics (Computational Science) Mathematics and Economics, Mathematics and Finance, Neuroscience, Paleontology, Pharmacology, Physics, Physiology, Psychology, and Statistics.

A Business Minor, an Arts Minor, a Native Studies Minor, and an Agricultural, Life and Environmental Sciences minor are available in the BSc General program.

A Science Internship Program (SIP) is available to Faculty of Science BSc students to enhance their studies and provide relevant work experience. Students must complete an 8-, 12- or 16-month work experience term at the end of their third year to receive SIP designation on their degree parchment. For more details, please see [Science Internship Program](#).

## Degrees

The Faculty offers three programs leading to the Bachelor of Science (BSc) degree: Honors, Specialization, and General.

The Faculty also offers a Bachelor of Science with Specialization in Science Education which is part of a five-year BSc/BEEd combined degrees program.

The four-year Honors programs are primarily for students who seek careers in scientific research. In addition, they prepare students for admission to graduate school, leading to a Master of Science (MSc) or a Doctor of Philosophy (PhD) degree.

- [Science After Degrees](#)

[moved, in abbreviated form, to the Faculty of Science General Information section]

The four-year Specialization programs do not concentrate on one subject to the same extent as the Honors programs. This allows students to choose from a broader range of courses and to take a greater number of courses in a secondary area of interest. They can provide the background necessary for admission to graduate schools, in some cases, and permit attainment of professional status in others.

The four-year General program provides a general education with a scientific emphasis for students who seek careers in business, teaching, medicine, dentistry, etc.

In many cases, transfer from one degree program to another can be easily arranged to suit students' changing ambitions, needs, or academic qualifications.

Regulations governing the Honors, Specialization, and General degree programs are found in [Programs](#), followed by descriptions of each degree program under the subject headings.

## Admission

General admission requirements for the University are set out in [Programs of Study](#) and [General Undergraduate Admission Requirements](#). Specific admission information for the Faculty of Science is detailed in [Faculty of Science Admission Requirements](#).

**Note: The Bachelor of Science degree framework has undergone a major renewal. Starting Fall 2024 students will choose from two pathways, BSc (Major) versus BSc (Honors). Admission to the General and Specialization programs will be suspended effective Fall 2024. Please see [Faculty of Science Admission Requirements](#) for information regarding admission into the new Bachelor of Science degree program.**

[moved up from below, with edits as indicated]

[moved, with minor editorial correction, to the Faculty of Science General Information section, under the heading Undergraduate Admissions]]

## Definitions

The following terms are specific to the Faculty of Science; they are used throughout this section of the

Calendar and [Faculty of Science Programs](#). Also see the Calendar's [Glossary](#).

**1. Arts Option**

Those courses offered by the Faculty of Arts for which the student is eligible, and Christian Theology courses and Native Studies courses listed in [Course Listings](#).

**2. Courses Attempted**

Refers to university or university transfer courses completed with a final grade and excludes courses from which a student has withdrawn.

**3. Courses Successfully Completed**

Refers to university courses with a final grade of D or higher.

**4. Pre-Fall 2024 Program**

Bachelor of Science (Honors, Specialization, and General) programs in effect prior to Fall 2024.

**5. Science Course**

Any course offered by the Faculty of Science. For students registered in a Faculty of Science program, courses offered by the Faculty of Medicine and Dentistry with the following course designators are also considered Science courses:

- a. BIOCH
- b. CELL
- c. MMI (except [MMI 133](#))
- d. NEURO
- e. PMCOL (except [PMCOL 300](#))
- f. PHYSL

**6. Science Option**

Any Science course, as defined above.

**7. Subject Area**

Academic discipline available as Honors, Major, or Minor for the [Bachelor of Science \(Major and Honors\)](#) programs offered by the Faculty of Science.

**8. Subject Area Course**

A course at the 200-level or higher that satisfies a specific requirement or option in a Major or Honors subject area, as outlined on each subject area page. See [Subject Areas Offered by the Faculty of Science](#).

**9. Subject Area GPA**

Grade Point Average calculated on the subject area courses for a Major or Honors

subject area credited to the Bachelor of Science (Major and Honors) degree.

**10. Year of Program**

Year of program, as referred to throughout the Science section, is defined below. Students who are applying to, or continuing in, the Faculty of Science are considered to be in

- a. Year 1 if they have successfully completed up to 29 units of course weight of their degree program;
- b. Year 2 if they have successfully completed between 30 and 59 units of course weight of their degree program;
- c. Year 3 if they have successfully completed between 60 and 89 units of course weight of their degree program;
- d. Year 4 if they have successfully completed at least 90 units of course weight of their degree program.

**Transfer Credit**

In determining the AGPA of any applicant, all attempted courses are deemed 'transferable' if they are transferable to the University of Alberta.

Transfer credit will be given for university transferable coursework with a minimum grade of C- as applicable to the applicant's degree program in the Faculty of Science. If an applicant has repeated a course in which they previously obtained a passing grade at any institution, the repeated instance is not considered for transfer credit.

**Credit by Special Assessment**

A student who has completed systematic studies equivalent to a 100- or 200-level course that would be eligible for credit in the Faculty of Science may apply for credit by special assessment. Certain IB and AP courses or completion of online courses, for instance, may qualify a student for consideration for credit by special assessment. The application process is initiated through the department offering the course. The department may require the student to write a regular final examination covering the material of the course being assessed. With the exception of

**Transfer Credit**

In determining the AGPA of any applicant, all attempted courses are deemed 'transferable' if they are transferable to the University of Alberta.

Transfer credit will be given for university transferable coursework with a minimum grade of C- as applicable to the applicant's degree program in the Faculty of Science. If an applicant has repeated a course in which they previously obtained a passing grade at any institution, the repeated instance is not considered for transfer credit.

**Credit by Special Assessment**

A student who has completed systematic studies equivalent to a 100- or 200-level course that would be eligible for credit in the Faculty of Science may apply for credit by special assessment. Certain IB and AP courses or completion of online courses, for instance, may qualify a student for consideration for credit by special assessment. The application process is initiated through the department offering the course. The department may require the student to write a regular final examination covering the material of the course being assessed. With the exception of

students who are eligible for consideration as a result of having completed IB and AP courses [see [Applicants from International Baccalaureate \(IB\) Curriculum](#) and [Applicants from Advanced Placement \(AP\) Curriculum](#)], credit by special assessment is normally not available in laboratory courses. A fee for credit by special assessment will be levied by the Office of the Registrar except in the case of IB and AP courses. Credit by Special Assessment is not offered in courses in which a student has previously received a failing grade. See [Credit by Special Assessment](#) for further information.

## Definitions

The following terms, definitions, and abbreviations are used throughout this section of the Calendar. Also see the Calendar's [Glossary](#).

### 1. **Approved Option**

In the Faculty of Science section, the term "approved option" appears only within the description of Honors and Specialization programs. For students registered in an Honors or Specialization BSc program, an "approved option" is a course (from Arts, Science, or another Faculty) approved in writing by the department directing the student's program.

General program students interested in taking courses from Faculties other than Arts or Science should see [Selection of Courses](#).

### 2. **Arts Option**

Those courses offered by the Faculty of Arts for which the student is eligible, Christian Theology courses and Native Studies courses listed in [Course Listings](#). Note: Students registered in the Faculty of Science may not take [SOC 210](#), [SOC 315](#) for degree credit.

### 3. **Courses Attempted**

Refers to university or university transfer courses completed with a final grade and excludes courses from which a student has withdrawn with permission.

### 4. **Courses Successfully Completed**

Refers to university courses with a final grade of D or higher.

### 5. **Course Weight**

A unit of course weight indicates the instructional credit assigned to a course. Units

students who are eligible for consideration as a result of having completed IB and AP courses [see [Applicants from International Baccalaureate \(IB\) Curriculum](#) and [Applicants from Advanced Placement \(AP\) Curriculum](#)], credit by special assessment is normally not available in laboratory courses. A fee for credit by special assessment will be levied by the Office of the Registrar except in the case of IB and AP courses. Credit by Special Assessment is not offered in courses in which a student has previously received a failing grade. See [Credit by Special Assessment](#) for further information.

[moved up, with editing as indicated]

of course weight form a part of the degree requirements and are also used to calculate a student's Grade Point Average (GPA):

**6. Fall/Winter**

The instructional period of September to April.

**7. Two-term Course**

A two-term course is a single course worth 6 units of course weight.

**8. Term**

The instructional periods from September to December (Fall) and January to April (Winter). In Spring/Summer, the instructional periods of May/June (Spring) and July/August (Summer).

**9. Single-term Course**

A single-term course is a single course worth 3 units of course weight.

**10. Junior Courses**

Those courses numbered 199 or lower.

**11. Normal Course Load**

A normal, full academic course load is 30 units of course weight during Fall/Winter.

**12. Option**

The term "option" where it appears in programs means a course chosen by the student from offerings by the Faculties of Arts or Science if the necessary prerequisites have been met.

**13. Outside Option**

Those courses offered by Faculties not including the Faculty of Science or the Faculty of Arts.

**14. Science Option**

Those courses offered by the Faculty of Science for which the student is eligible. Note: Not all courses offered by the Faculty of Science are available to students registered in the Faculty of Science.

**15. Spring/Summer**

The instructional periods of May/June (Spring Term) and July/August (Summer Term).

**16. Year of Program**

Year of program, as referred to throughout the Science section, is defined below. Students who are applying to, or continuing in, the Faculty of Science are considered to be in

- a. Year 1 if they have successfully completed up to 29 units of course weight of their degree program;

- b. Year 2 if they have successfully completed between 30 and 59 units of course weight of their degree program;
- c. Year 3 if they have successfully completed between 60 and 89 units of course weight of their degree program;
- d. Year 4 if they have successfully completed at least 90 units of course weight of their degree program.

## Academic Standing

1. Academic standing is used to determine the eligibility of students to continue or graduate from their programs. The academic standing of all students in the Faculty of Science is assessed annually on the basis of the Grade Point Average (GPA) calculated on all **coursework attempted in the Fall/Winter**. Spring and Summer work is not included. **The assessment of students in BSc Specialization and BSc Honors programs also takes into consideration the minimum course load requirements of the particular program, as well as any specific grade or GPA requirements.**

For students not in their final Fall/Winter **in the BSc General program**, the Faculty may defer the assessment of academic standing for one Fall/Winter for students who attempt less than 9 units of course weight. In such cases, the academic standing assigned at the last assessment remains in effect until the conclusion of the next Fall/Winter.

2. **Academic Standing Assessment**
  - a. **First Class Standing**, also referred to as the Dean's Honor Roll, is assigned to students who successfully complete at least 24 units of course weight and achieve a minimum 3.5 GPA. First class standing is also assigned to students who, as a result of participation in **Education Abroad** or **SIP Work Experience**, attend only one term of a Fall/Winter and successfully complete at least 12 units of course weight with a minimum 3.5 GPA.

## Academic Standing

1. Academic standing is used to determine the eligibility of students to continue or graduate from their programs. The academic standing of all students in the Faculty of Science is assessed annually on the basis of the Grade Point Average (GPA) calculated on all **coursework attempted in the Fall/Winter**. Spring and Summer work is not included.

For students not in their final Fall/Winter, the Faculty may defer the assessment of academic standing for one Fall/Winter for students who attempt less than 9 units of course weight **in courses with letter grades**. In such cases, the academic standing assigned at the last assessment remains in effect until the conclusion of the next Fall/Winter.

2. **Academic Standing Assessment**
  - a. **Academic Standing Assessment for Students Registered in a Pre-Fall 2024 Program:**
    - i. **First Class Standing**, also referred to as the Dean's Honor Roll, is assigned to students who successfully complete at least 24 units of course weight and achieve a minimum 3.5 GPA. First class standing is also assigned to students who, as a result of participation in **Study Abroad** or **the Science Internship**



b. **Satisfactory Standing** is assigned to students in the BSc General program who achieve a minimum GPA of 2.0. Satisfactory standing is assigned to students in BSc Specialization and BSc Honors programs who meet the minimum continuation requirements for their program, including Fall/Winter GPA, ~~course load~~ and any course specific grade or GPA requirements. ~~(Refer to the specific sections covering each BSc Specialization and BSc Honors program in Bachelor of Science Specialization to Bachelor of Science Honors)~~

Students in satisfactory standing may continue in, and when requirements met, graduate from, their programs.

e. **Marginal Standing** is assigned to students with a GPA between 1.7 and 1.9 ~~on a minimum 9 units of course weight attempted~~. Students meeting these criteria who do not have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents may be permitted to continue on academic warning in the BSc General program. Students in BSc Honors and BSc Specialization programs who meet the criteria for marginal standing may not continue in their current programs, but must ~~apply to~~ transfer to the ~~BSc General~~ program in order to continue on academic warning.

~~Program~~, attend only one term of a Fall/Winter at the ~~University of Alberta~~ and successfully complete at least 12 units of course weight with a minimum 3.5 GPA.

ii. **Satisfactory Standing** is assigned to students in the BSc General program who achieve a minimum GPA of 2.0. Satisfactory standing is assigned to students in BSc Specialization and BSc Honors programs who meet the minimum continuation requirements for their program, including Fall/Winter GPA and any course specific grade or GPA requirements, ~~as shown in the table below.~~

~~[please insert the Table with Continuation Requirements for Pre-Fall 2024 Programs here]~~

Students in satisfactory standing may continue in, and when requirements met, graduate from, their programs.

iii. **Marginal Standing** is assigned to students with a GPA between 1.7 and 1.9. Students meeting these criteria who do not have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents may be permitted to continue on academic warning in the BSc General program ~~or the Bachelor of Science (Major) program~~. Students in BSc Honors and BSc Specialization programs who meet the criteria for marginal standing may not continue in their current programs, but must transfer to the ~~Bachelor of Science~~

<p>To clear academic warning and return to satisfactory standing, students must <del>attend the subsequent Fall/Winter and must</del> obtain a minimum 2.0 GPA. Students who fail academic warning are required to withdraw.</p> <p><del>Students who have been placed on academic warning and wish to interrupt their studies must obtain the written permission of the Associate Dean, Undergraduate prior to August 15 of the year in which marginal standing was assigned. Students who interrupt their studies without permission will need to requalify in order to be considered for future readmission (see <a href="#">Requalify</a>).</del></p> <p>Academic warning may be offered once only. To remain in satisfactory standing students must maintain a minimum 2.0 GPA in all subsequent Fall/Winters. Students with a GPA below 2.0 and who have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents are required to withdraw. Academic warning is not offered to Special Students or to students in BSc Specialization and Honors After Degree programs who are upgrading a previous degree with a major in the same discipline. Students in these programs with marginal standing will be required to withdraw.</p>	<p>(Major) program in order to continue on academic warning.</p> <p>To clear academic warning and return to satisfactory standing, students must obtain a minimum 2.0 GPA <del>in the next Fall/Winter (or in a subsequent Fall/Winter if they choose to interrupt their studies).</del> Students who fail academic warning are required to withdraw.</p> <p>Academic warning may be offered once only. To remain in satisfactory standing students must maintain a minimum 2.0 GPA in all subsequent Fall/Winters. Students with a GPA below 2.0 and who have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents are required to withdraw.</p> <p>Academic warning is not offered to Special Students or to students in BSc Specialization and Honors After Degree programs who are upgrading a previous degree with a major in the same discipline. Students in these programs with marginal standing will be required to withdraw.</p>
--	---

d. **Unsatisfactory Standing** is assigned to students whose GPA **on a minimum 9 units of course weight** is below 1.7. It is also assigned to students with a GPA below 2.0 who have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents. Students with unsatisfactory standing are required to withdraw.

**Students with two or more prior requirements to withdraw or equivalents are not eligible to continue in the Faculty of Science and do not have the option to appeal.**

iv. **Unsatisfactory Standing** is assigned to students whose GPA is below 1.7. It is also assigned to students with a GPA below 2.0 who have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents. Students with unsatisfactory standing are required to withdraw.

b. **Academic Standing Assessment for Students Registered in the Bachelor of Science (Major and Honors) Program**

i. **Satisfactory Standing (GPA 2.0 and above):** Students who maintain satisfactory standing are permitted to continue their studies in the Faculty of Science.

Students in the Bachelor of Science with Honors program whose GPA is less than or equal to 0.3 grade points below the minimum continuation requirements of the subject area in which they are registered (i.e., GPA 3.0 to 3.2 inclusive for the Honors in Neuroscience subject area; GPA 2.7 to 2.9 inclusive for all other Honors subject areas) may continue in the Bachelor of Science with Honors program in the subject area in which they are registered, provided this is the first time they do not meet the continuation requirements while registered in the Bachelor

of Science with Honors program.

Students in the Bachelor of Science with Honors program whose GPA is greater than 0.3 grade points below the minimum continuation requirements of the subject area in which they are registered and students who do not meet the continuation requirements a second time or more while registered in the Bachelor of Science with Honors program may not continue in the Bachelor of Science with Honors program. They must transfer to the Bachelor of Science (Major) program.

ii. **Marginal Standing (GPA 1.7 to 1.9 inclusive):** Students with marginal standing who do not have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents by Faculty of Science standards are permitted to continue on academic warning in the Bachelor of Science (Major) program. Students in the Bachelor of Science with Honors program with marginal standing may not continue in their current program, but must transfer to the Bachelor of Science (Major) program in order to continue on academic warning.

To clear academic warning and return to satisfactory standing, students must obtain a minimum 2.0 GPA in the next Fall/Winter (or in a subsequent Fall/Winter if they choose to

<p>3. <b>Requirement to Withdraw and Readmission</b>          Students who are required to withdraw cannot continue or register in subsequent terms beyond Spring. If they wish to continue studies in the Faculty of Science, they must choose one of the following mutually exclusive options. Admission to the Faculty of Science is competitive. The number of readmissions to the Faculty is limited. Presentation of the minimum admissions requirements does not assure admission.</p> <p>a. <b>Fresh Start Program:</b> is available by recommendation of the Faculty to</p>	<p>interrupt their studies).          Students who fail academic warning are required to withdraw.</p> <p>Academic warning may be offered once only. To remain in satisfactory standing, students must maintain a minimum 2.0 GPA in all subsequent Fall/Winters.</p> <p>Students with a GPA below 2.0 and who have in their postsecondary education a prior requirement to withdraw, an academic warning, a probation period or their equivalents by Faculty of Science standards are required to withdraw.</p> <p>Academic warning is not offered to Special Students or to students in the Bachelor of Science (Major and Honors) After Degree program. Students in these programs with marginal standing are required to withdraw.</p> <p>iii. <b>Unsatisfactory Standing (GPA 1.6 and below):</b>          Students with unsatisfactory standing are required to withdraw.</p> <p>3. <b>Requirement to Withdraw and Readmission</b>          Students who are required to withdraw cannot continue or register in subsequent terms beyond Spring. If they wish to continue studies in the Faculty of Science, they must choose one of the following mutually exclusive options. Admission to the Faculty of Science is competitive. The number of readmissions to the Faculty is limited. Presentation of the minimum admissions requirements does not assure admission.</p> <p>a. <b>Fresh Start Program:</b> is available by recommendation of the Faculty to</p>
--	--

students whose GPA is between 1.3 and 1.6 and have taken less than 60 units of course weight of postsecondary work. Students who have been on probation or have more than one requirement to withdraw or their equivalents, or who have been sanctioned for any academic-related disciplinary offence at this University or elsewhere are not eligible for the Fresh Start program. A minimum of 24 units of course weight with a competitive AGPA must be successfully completed in the Fresh Start program to be considered for readmission to the Faculty of Science. The Faculty may also specify course requirements to be fulfilled. Students who successfully complete the Fresh Start program may apply for readmission as transfer students (see [Postsecondary Transfer Students](#)).

- b. **Discontinue Studies and Apply for Fall Readmission:** Students in the Faculty of Science who are being required to withdraw for the first time in their academic record may elect to discontinue studies for a minimum period of one year and then apply for Fall readmission. Should any coursework be attempted at any institution during this period, the grades may be taken into consideration for readmission purposes, but transfer credit will not be granted. Students in the Faculty of Science who have failed probation or been twice required to withdraw or equivalent by Faculty of Science standards may discontinue their studies for a period of five years from the date of last attendance and seek consideration for Fall readmission by writing a letter of petition to the Associate Dean, Undergraduate. Readmission, if offered, will be on probation, subject to conditions specified by the Associate Dean, Undergraduate.

students whose GPA is between 1.3 and 1.6 and have attempted fewer than 60 units of course weight of postsecondary work. Students who have been on probation or have more than one requirement to withdraw or their equivalents are not eligible for the Fresh Start program. A minimum of 24 units of course weight with a competitive AGPA must be successfully completed in the Fresh Start program to be considered for readmission to the Faculty of Science. The Faculty may also specify course requirements to be fulfilled. Students who successfully complete the Fresh Start program may apply for readmission as transfer students (see [Postsecondary Transfer Students](#)).

- b. **Discontinue Studies and Apply for Fall Readmission:** Students who are required to withdraw for the first time in their academic record may elect to discontinue studies for a minimum period of one year and then apply for Fall readmission. Should any coursework be attempted at any institution during this period, the grades may be taken into consideration for readmission purposes, but transfer credit will not be granted.

Students who have failed probation or been twice required to withdraw or equivalent by Faculty of Science standards may discontinue their studies for a period of five years from the date of last attendance and seek consideration for Fall readmission by writing a letter of petition to the Associate Dean, Undergraduate. Readmission, if offered, will be on probation, subject to conditions specified by the Associate Dean, Undergraduate.

Students **who have been required to withdraw three times or equivalent** are ineligible for readmission to the Faculty of Science.

- c. **Requalify:** Students **who are being required to withdraw for the first time** in their academic record may elect to requalify by taking further postsecondary work. Subsequent to having been required to withdraw, such applicants must present 24 units of course weight transferable to the University of Alberta with a competitive AGPA to be considered for admission or readmission.
4. **Probation** Probation is granted to Faculty of Science students who are required to withdraw and successfully appeal or to Faculty of Science students who are readmitted after studies were discontinued for academic reasons. Probation is completed in the BSc General program. When placed on probation, a student must fulfill specific conditions specified by the Associate Dean, **Undergraduate** at the time of readmission. To clear probation and return to satisfactory standing, students must normally successfully complete a minimum of 24 units of course weight during the Fall/Winter, obtain a minimum 2.0 GPA, and successfully fulfill all other conditions of the probation. Students who fail to satisfy any of the conditions fail **P**robation, and are required to withdraw without the option of appeal. Students who fail a second period on probation are ineligible for readmission to the Faculty of Science.

## **Scholarship, First-Class Standing**

### **1. Scholarship**

The basis for scholarship consideration is **passing grades in all courses on load of at least 30 units of course weight.**

Students **who have been required to withdraw three times or equivalent by Faculty of Science standards** are ineligible for readmission to the Faculty of Science.

- c. **Requalify:** Students **who are being required to withdraw for the first time** in their academic record may elect to requalify by taking further postsecondary work. Subsequent to having been required to withdraw, such applicants must present 24 units of course weight transferable to the University of Alberta with a competitive AGPA to be considered for admission or readmission.
4. **Probation** Probation is granted to Faculty of Science students who are required to withdraw and successfully appeal or to Faculty of Science students who are readmitted after studies were discontinued for academic reasons. Probation is completed in the BSc General **or Bachelor of Science (Major)** program. When placed on probation, a student must fulfill specific conditions specified by the Associate Dean, **Undergraduate**, at the time of readmission. To clear probation and return to satisfactory standing, students must normally successfully complete a minimum of 24 units of course weight during the Fall/Winter, obtain a minimum 2.0 GPA, and successfully fulfill all other conditions of the probation. Students who fail to satisfy any of the conditions fail **p**robation, and are required to withdraw without the option of appeal. Students who fail a second period on probation are ineligible for readmission to the Faculty of Science.



**2. First-Class Standing**

First-class standing in a given Fall/Winter is awarded to any student who obtains a GPA of not less than 3.5 and successfully completes a minimum of 24 units of course weight during that Fall/Winter. Students who attend only one term of Fall/Winter as a result of enrolment in ABROD, EXGH or WKEXP are eligible if they successfully complete at least 12 units of course weight with a minimum GPA of 3.5. This is also referred to as the Dean's Honor Roll.

**Graduation Year**

Students who have completed 120 units of course weight or more and who have either not applied to graduate, or who have applied but have not met graduation requirements, are permitted to register only in those courses necessary to complete their current program as quickly as possible. Such students must have the written approval of the Associate Dean of Science for every course beyond 120 units of course weight in which they register. Students in Honors or Specialization programs must also have the written approval of their Departmental Advisor.

**Reexamination**

Reexaminations are not normally permitted in the Faculty of Science. Students seeking a reexamination for a course offered by the Faculty of Science must, in addition to meeting the requirements set out in [Reexaminations](#), also meet the following conditions:

1. Students must provide evidence of a medical condition or similarly compelling circumstance existing at the time of the writing of the final examination; and
2. provide evidence that the student's performance in the final examination was so affected by circumstances as shown in (1) that there was a substantial difference between the final examination results and the term work; and
3. excluding the final exam, must have completed at least one-half of the term work.

**Note:** Registrants in BSc degree programs in the Faculty of Science who fail to meet the graduation

**Graduation Year**

Students who have completed 120 units of course weight or more and who have either not applied to graduate, or who have applied but have not met graduation requirements, are permitted to register only in those courses necessary to complete their current program as quickly as possible. Such students must have the written approval of the Associate Dean, Undergraduate, for every course beyond 120 units of course weight in which they register.

**Reexamination**

Reexaminations are not normally permitted in the Faculty of Science. Students seeking a reexamination for a course offered by the Faculty of Science must, in addition to meeting the requirements set out in [Reexaminations](#), also meet the following conditions:

1. Students must provide evidence of a medical condition or similarly compelling circumstance existing at the time of the writing of the final examination; and
2. provide evidence that the student's performance in the final examination was so affected by circumstances as shown in (1) that there was a substantial difference between the final examination results and the term work; and
3. excluding the final exam, must have completed at least one-half of the term work.

**Note:** Students in a course offered by the Faculty of Science who fail to meet the graduation requirements



requirements may be granted a reexamination in **one** passed or failed Science course taken in the final Fall/Winter or Spring/Summer (last 30 units of course weight or less) provided the maximum number of reexaminations (12 units) has not been previously taken. Such courses must qualify for reexamination, according to [Reexaminations](#).

## Courses

### 1. Selection of Courses

Students are responsible for familiarizing themselves with program requirements and limitations as specified in the Calendar, for ensuring their programs are properly planned in accordance with degree specifications, and for the completeness and accuracy of their registration. Please read the Calendar carefully before registering in courses, and if you are in doubt about any regulations pertaining to your program, consult the Faculty of Science Office (1-001-GGIS) for clarification.

Students registered in the Faculty of Science must complete Science courses and Arts courses as specified by their program.

Students may also take courses from other Faculties, but must adhere to the program-imposed limits for such Outside options. **Note:** Anatomy courses are offered by the Faculty of Medicine and Dentistry and are considered Outside options.

### 2. Selection of First-Year Courses

Beginning first-year students who have completed no credits toward their programs normally restrict their registration to junior courses. First-year students contemplating taking senior-level courses should be careful to ensure that they have completed any prerequisites.

### 3. Withdrawal from Courses

Courses from which the student withdraws up to and including the last day for registration in the Fall and Winter Terms will not appear on the student's record. Courses from which the student withdraws after the last day of registration and up to the withdrawal deadline

of the degree program in which they are registered may be granted a reexamination in this course, whether passed or failed, provided (1) the maximum number of reexaminations (12 units) has not been previously taken, and (2) with a better grade in the course, they can graduate at the first upcoming convocation ceremony. This regulation applies to at most **one** course. Such a course must qualify for reexamination, according to [Reexaminations](#).

## Selection of Courses

Students are responsible for familiarizing themselves with program requirements and limitations as specified in the Calendar, for ensuring their programs are properly planned in accordance with degree specifications, and for the completeness and accuracy of their registration. See [Responsibility for Registration](#).

Students are responsible for ensuring they have satisfied the pre/corequisite requirements for all courses. Departments have the right to remove students from courses for failing to present a passing grade (or higher, where stipulated) in the prerequisite course(s) and/or for failing to be enrolled in the corequisite course(s).

will appear with a grade of "W" (Withdrew with permission) on the transcript.

Deadlines for withdrawing from courses are listed in [Academic Schedule](#).

**4. Prerequisites**

Courses with prerequisites may only be used for degree credit if the prerequisite requirements are met.

A grade of D is the minimum grade acceptable in a course which is to be used as a prerequisite.

Where a prerequisite is stated, it is understood that equivalent courses may be used to satisfy the requirement. In addition, the department offering a course with prerequisite requirements may waive the prerequisite in writing. (Prerequisite waiver forms are available from the Faculty of Science office and the Department offices). Students who are unsure if they meet the prerequisite requirements in a course, or who wish to obtain permission to have a prerequisite waived, should consult the department offering the course.

**5. Repeating Courses**

No student will be permitted to repeat any University course, whether a failed course or a course having a grade of W, more than once except for reasons deemed sufficient by the Council of the Faculty in which the student is enrolled. For Science students, the Faculty will withhold credit or indicate the course is extra to degree on any course that contravenes this regulation.

Normally, a student will not be permitted to repeat a course in which a grade of D or more has been received.

Only two exceptions are permitted, and each requires written approval of the **Dean or designee**:

- a. When a higher grade is necessary for a course that is required in the student's current degree program.
- b. When a student in Satisfactory Standing in the last year of a degree program repeats one course to raise the GPA to the level required by the degree program  
A student who repeats a course in

**Repeating Courses**

No student will be permitted to repeat any University course, whether a failed course or a course having a grade of W, more than once except for reasons deemed sufficient by the **Associate Dean, Undergraduate**, of the Faculty in which the student is registered. See [Reregistration in Courses](#). For Science students, the Faculty will withhold credit or indicate the course is extra to degree on any course that contravenes this regulation.

Normally, a student will not be permitted to repeat a course in which a grade of D or more has been received. Only two exceptions are permitted, and each requires written approval of the **Associate Dean, Undergraduate**:

1. When a higher grade is necessary for a course that is required in the student's current degree program.
2. When a student in Satisfactory Standing in **Year 4** of a degree program repeats one course to raise **any GPA required for graduation** to the level required by the degree program.

which a grade of D or more has been received, without written permission of the Faculty of Science, will have the grade attained on the initial passing of the course used for the purpose of meeting degree requirements, and no credit will be assigned to the repeated course.

**6. Course Load Limits**

Students are limited to 15 units in each of Fall and Winter terms and 6 units in each of Spring and Summer terms. When a student wishes to go beyond these limits, written approval is required from the Faculty of Science. Approval is contingent on having obtained a GPA of at least 3.0 on a course load of 30 units in the previous Fall/Winter at the University of Alberta.

[moved here, unchanged, from the Faculty of Science Courses page (see below)]

A student who repeats a course in which a grade of D or more has been received, without written permission of the Faculty of Science, will have the grade attained on the initial passing of the course used for the purpose of meeting degree requirements, and no credit will be assigned to the repeated course.

**Course Load Limits**

Students are limited to 15 units in each of Fall and Winter terms and 6 units in each of Spring and Summer terms. When a student wishes to go beyond these limits, written approval is required from the Faculty of Science. Approval is contingent on having obtained a GPA of at least 3.0 on a course load of 30 units in the previous Fall/Winter at the University of Alberta.

**Course Exclusion Lists**

Each Credit Exclusion List below lists courses in which there is sufficient overlap that credit will be granted for only one of the courses in any degree offered by the Faculty of Science. This does not imply that courses listed together are interchangeable. Program specifications may require a specific course. A student who fails a course may attempt that course once more or may attempt one other from the same Credit Exclusion list, but only once. A student who passes a course may not take for higher standing that course or another course on the same Credit Exclusion list.

Credit will be granted in only one of [NEURO 375](#) or [ANAT 401](#) in any degree offered by the Faculty of Science.

Credit will be granted in only one of [PHYSL 210](#) or ([ZOO L 241](#) and [ZOO L 242](#)) in any degree offered by the Faculty of Science.

Credit will be granted in only one of ([PHYSL 212](#) and [PHYSL 214](#)) or ([ZOO L 241](#) and [ZOO L 242](#)) in any degree offered by the Faculty of Science.

Credit will be granted in only one of [ACCTG 300](#) or [ACCTG 311](#) in any degree offered by the Faculty of Science. [ACCTG 300](#) will be declared extra to the

degree for any Science program requiring [ACCTG 311](#).

Credit will be granted in only one of [ANAT 200](#), [KIN 100](#), [NURS 106](#), [NURS 140](#) or [PTHER 350](#) in any degree offered by the Faculty of Science.

Credit will not be granted for MIS 311, [BTM 311](#), MIS 415, BTM 415, MIS 419 or [BTM 419](#) towards the BSc Specialization in Computing Science in Software Practice degree or the BSc Specialization in Computing Science - Minor in Business degree. In all other degrees offered by the Faculty of Science, credit will be granted in only one of [CMPUT 301](#) or MIS 419 or [BTM 419](#).

Credit will be granted in only one of [STAT 252](#) or [MGTSC 312](#) in any degree offered by the Faculty of Science. [MGTSC 312](#) will be declared extra to the degree for any Science program requiring [STAT 252](#).

Credit will be granted in only one of [STAT 151](#), [STAT 161](#), [KIN 109](#), [PTHER 352](#) or [SOC 210](#) in any degree offered by the Faculty of Science. [KIN 109](#), [PTHER 352](#) or [SOC 210](#) will be declared extra to the degree for any Science program requiring [STAT 151](#) or [STAT 161](#).

## Graduate Courses

Courses numbered 500 and up are restricted to graduate students and normally may not be taken for credit by undergraduate science students without prior permission by the Associate Dean, Undergraduate, or designate.

[moved here, unchanged, from the Faculty of Science Courses page (see below)]

## ~~Internal Changes to Program and/or Subject Area~~

~~Note: This section pertains only to the new Bachelor of Science degree programs coming into effect Fall 2024. To preview the new program requirements, please see [Bachelor of Science \(Major and Honors\) - Effective Fall 2024](#).~~

~~This section applies to students currently registered in the Faculty of Science. Students not currently~~

[moved, in edited form, to the [Bachelor of Science \(Major and Honors\)](#) page, except admission requirements for the Minor in Business, which are moved to the [Faculty of Science Admission Requirements](#) page]

registered in the Faculty of Science should see [Faculty of Science Admission Requirements](#).

Declaration of and changes to a student's Major, Honors and/or Minor subject area are considered once a year. Students must submit a Statement of Major/Honors/Minor Form via [SciForms](#) by March 1. If approved, the change in program/subject area will come into effect the Fall term of the same calendar year.

### **Declaring/Changing Major/Honors Subject Area**

Students whose Major/Honors subject area is Undeclared must declare their Major/Honors subject area prior to accumulating 60 units towards their program. However, it is to a student's advantage to declare their subject area as soon as possible.

Changing a Major subject area or an Honors subject area, or changing from a Major subject area to an Honors subject area (or vice versa), is not normally permitted once 90 units have been accumulated toward the degree program.

See [Minimum Grade Point Averages and Additional Criteria](#) for eligibility.

### **Notes:**

1. Certain Major/Honors subject areas are under enrolment management and therefore are competitive. Presentation of the minimum GPA does not guarantee acceptance into these subject areas.
2. Acceptance to the Honors Planning or Honors Psychology subject area is contingent upon securing a research supervisor by June 15. Students planning to declare or change to the Honors Planning or Honors Psychology subject area should contact the respective department.

### **Declaring/Changing/Undeclaring Minor Subject Area**

Students choosing to complete a Minor are not normally permitted to declare or change their Minor subject area after having accumulated 90 units towards their program. Students may undeclare their Minor prior to graduation.

- **Minor in Business**

The Minor in Business requires at least one

year of study and is competitive. To be considered for the Minor in Business, students must present:

- An AGPA of at least 2.3 and
- An average of at least 2.3 on the following courses, which must have been successfully completed:
  - 6 units in junior ENGL or 3 units in junior ENGL and 3 units in junior WRS
  - ECON 101 and ECON 102
  - One of MATH 117, MATH 134, MATH 144 or MATH 154
  - 3 units in additional Mathematical Sciences (Mathematics, Computing Science, or Statistics)
  - 6 units chosen from Biological Sciences, Chemistry, Earth and Atmospheric Sciences, Physics or Science Psychology.

In ranking students to meet the quota, 40% weight is given to the student's AGPA and 60% weight to the student's average on the required courses listed above. If a student has repeated a course, the first passing grade is used to calculate the student's ranking. This ranking is normally completed at the end of Year 1, and preference is given to students who request the Minor in Business at that point in their program. With the exception of ECON 101, students who do not have all the required prerequisites noted, but who have a competitive GPA, may make up any course deficiencies during the first Fall/Winter after being allowed into the Minor in Business.

## Graduation

### 1. Application for Graduation

Students must be in satisfactory standing in their program (i.e., meet the continuation requirements in their final Fall/Winter) in order to graduate.

## Graduation

### 1. Application for Graduation

Students must meet the continuation requirements of their program (see [Academic Standing](#)) in their final Fall/Winter as well as the residence and graduation requirements of their program in order to graduate.

- a. Graduation requirement for students in a Pre-Fall 2024 Program are as follows:

[please insert the [Table with Graduation Requirements for Pre-Fall 2024 Programs](#) here]

Students who intend to receive a BSc ~~(General, Specialization, or Honors) Degree~~ must apply for the [Degree on Bear Tracks](#) by February 1 for Spring Convocation or by September 1 for Fall Convocation. If degree requirements have been met and the student has not applied to graduate, the Faculty may apply on their behalf. All official transcripts from other postsecondary institutions are due by May 1 for Spring Convocation or by October 1 for Fall Convocation.

Students who intend to apply for admission to an alternate degree program in the Faculty of Science for convocation purposes only must meet all of the admission, continuation, [residency](#) and graduation [criteria](#) for that BSc program.

**2. Degree Requirements**

All BSc [Degrees](#) require a minimum of 120 units of course weight. Courses with weights of 0 units are offered for credit only, and, although they may be required in specific degree programs, cannot be used to meet the minimum units of course weight requirement in any degree program.

**3. Convocation**

All requirements for graduation at Spring Convocation must be met by the end of Fall/Winter. Those completing degree requirements during Spring/Summer will graduate at the Fall Convocation.

**4. First-Class Honors**

First-Class Honors Degrees are awarded to any student in an Honors program who obtained a GPA of at least 3.5 and no failing grades on the last 60 units of course weight, excluding courses declared extra-to-degree. **ff**

- b. Students in the Bachelor of Science (Major and Honors) program should refer to [Bachelor of Science \(Major and Honors\) - Graduation Requirements](#).

Students who intend to receive a BSc [degree](#) must apply for the [degree](#) on [Bear Tracks](#) by February 1 for Spring Convocation or by September 1 for Fall Convocation.

If degree requirements have been met and the student has not applied to graduate, the Faculty may apply on their behalf.

All official transcripts from other postsecondary institutions are due by May 1 for Spring Convocation or by October 1 for Fall Convocation.

Students who intend to apply for admission to an alternate degree program in the Faculty of Science for convocation purposes only must meet all of the admission, continuation, [residence](#) and graduation [requirements](#) for that BSc program.

**2. Degree Requirements**

All BSc [degrees](#) require a minimum of 120 units of course weight. Courses with weights of 0 units are offered for credit only, and, although they may be required in specific degree programs, cannot be used to meet the minimum units of course weight requirement in any degree program.

**3. Convocation**

All requirements for graduation at Spring Convocation must be met by the end of Fall/Winter. Those completing degree requirements during Spring/Summer will graduate at the Fall Convocation.

**4. First-Class Honors**

First-Class Honors Degrees are awarded to any student in an Honors program who obtained a GPA of at least 3.5 and no failing grades [\(F or NC\)](#) on the last 60 units of



determination of the last 60 units of course weight requires consideration of one or more courses from a given term then all work from that term is included in the calculation for the purposes of qualifying for First-Class Honors. Normally, only U or A courses will be used in the calculation of the GPA for the last 60 units of course weight of the program.

5. **With Distinction**

Degrees With Distinction are awarded to any student in a General or Specialization program who obtained a GPA of at least 3.5 and no failing grades on the last 60 units of course weight, excluding courses declared extra-to-degree.

If determination of the last 60 units of course weight requires consideration of one or more courses from a given term then all work from that term is included in the calculation for the purposes of qualifying for With Distinction. Normally, only U or A courses will be used in the calculation of the GPA for the last 60 units of course weight of the program.

Further regulations regarding academic standing, promotion, and graduation vary from program to program within the Faculty of Science, and are therefore given in [Programs](#) below. Regulations for Honors, Specialization, and General programs are found in [Faculty of Science](#).

## Appeals and Grievances

A copy of Faculty of Science regulations regarding appeals on grades, academic standing and practicum intervention may be obtained from the [Faculty of Science Student Services Office \(1-001 CCIS\)](#) and on the Faculty of Science website. Certain academic standing decisions made by the Faculty Academic Appeals Committee may be appealed to the General Faculties Council Academic Appeals Committee. Appeals of decisions made by the Faculty Practice Review Committee may be appealed to the General Faculties Council Practice Review Board. See [Appeals and Grievances](#).

**Note:** Deadlines exist for submission of appeals and are described in the appeals policy document.

course weight in courses with letter grades, excluding courses declared extra-to-degree.

5. **With Distinction**

Degrees With Distinction are awarded to any student in a [Pre-Fall 2024](#) General or Specialization program or [Bachelor of Science \(Major\) program](#) who obtained a GPA of at least 3.5 and no failing grades (F or NC) on the last 60 units of course weight in courses with letter grades, excluding courses declared extra-to-degree.

**Note:** If determination of the last 60 units of course weight in courses with letter grades requires consideration of one or more courses from a given term, then all work from that term is included in the GPA calculation for the purposes of qualifying for First-Class Honors or With Distinction. Normally, only University of Alberta courses will be used in the calculation of the GPA for the last 60 units of course weight in courses with letter grades.

## Appeals and Grievances

A copy of Faculty of Science regulations regarding appeals on grades, academic standing and practicum intervention is available on the Faculty of Science website. Certain academic standing decisions made by the Faculty Academic Appeals Committee may be appealed to the General Faculties Council Academic Appeals Committee. Appeals of decisions made by the Faculty Practice Review Committee may be appealed to the General Faculties Council Practice Review Board. See [Appeals and Grievances](#).

**Note:** Deadlines exist for submission of appeals and are described in the appeals policy document.



## Visiting Student Status

Permission to attend another institution as a Visiting Student depends on the student remaining in **good** academic standing in the Faculty of Science at the University of Alberta.

A student while registered in the Faculty of Science cannot attend two postsecondary institutions at the same time and will not receive permission to register as a Visiting Student at another institution if the equivalent course is given on campus in the same term, except in the case of formal exchange programs. Transfer credits will not be awarded if a student attends another postsecondary institution without first obtaining a current Letter of Permission from the Faculty of Science.

## Study Abroad

The Faculty of Science encourages all full-time students who have completed at least 15 units of course weight at the University of Alberta, who are in satisfactory standing in their program with a CGPA of at least 2.5 and have a GPA of at least 2.7 in their most recently completed term, to consider a period of study abroad. This program is administered by University of Alberta International and details of this competitive program can be found on the **University of Alberta International website**.

Where possible, credit for courses successfully completed in study abroad programs will be granted transfer credit by the Faculty of Science. However, there may be courses required in a program where there is no substitute available elsewhere. Thus a period of study abroad may extend the time required to complete a BSc degree. **Science students should maintain satisfactory standing during study abroad**

## Registration at Other Postsecondary Institutions

Permission to attend another institution as a Visiting Student depends on the student remaining in **satisfactory** academic standing in the Faculty of Science at the University of Alberta.

A student while registered in the Faculty of Science cannot attend two postsecondary institutions at the same time and will not receive permission to register as a Visiting Student at another institution if the equivalent course is given on campus in the same term, except in the case of formal exchange programs. Transfer credits will not be awarded if a student attends another postsecondary institution without first obtaining a current Letter of Permission from the Faculty of Science.

**Letters of Permission are not approved for students taking courses at postsecondary institutions outside of Canada. Students interested in taking courses outside of Canada should explore studying abroad through the University of Alberta International's Exchange and Summer Programs (see [Study Abroad](#)).**

## Study Abroad

The Faculty of Science encourages all full-time students who have completed at least 15 units of course weight at the University of Alberta, who are in satisfactory standing in their program with a CGPA of at least 2.5 and have a GPA of at least 2.7 in their most recently completed term, to consider a period of study abroad. This program is administered by University of Alberta International and details of this competitive program can be found on the **University of Alberta International website**.

Where possible, credit for courses successfully completed in study abroad programs will be granted transfer credit by the Faculty of Science. However, there may be courses required in a program where there is no substitute available elsewhere. Thus a period of study abroad may extend the time required to complete a BSc degree.

however they will not be held to the course load and GPA expectations of their individual programs. The thesis-based independent research project required in many honors programs must be completed at the University of Alberta.

## Science Internship Program

The Science Internship Program (SIP) offers science undergraduate students work experience opportunities in addition to their academic courses.

To be eligible to register in this program a student must:

1. Have successfully completed a minimum of 48 units of course weight, and not more than 105 units of course weight, of a ~~Science General, Honors or Specialization degree program with a declared major.~~
2. ~~Be in good standing and have~~ a minimum 2.3 GPA in the previous Fall/Winter Terms.

Students accepted into the program will receive access to approved position descriptions from employers wishing to hire SIP students. Employers are responsible for interviewing and selecting students for the positions. The internship may begin in May, September or January and must be of at least 8 months duration, but may extend to up to 16 months.

Students are limited to one 8 (may consist of two separate 4 month placements), 12 (continuous) or 16 (continuous) month internship placement during their undergraduate degree. Work during the internship period is full time, for which the student is paid by the employer at competitive rates. The student, employer and the Faculty must agree to terms of the internship. During the period of the internship, the student registers in a work experience (WKEXP) course each term and is considered a full-time student at the University of Alberta. All students must register in a minimum of two WKEXP courses that have associated fees.

To successfully complete the SIP, students must complete a minimum of eight months of the following WKEXP courses: [WKEXP 955](#), [WKEXP 956](#), [WKEXP 957](#) and [WKEXP 958](#). An eight month placement may

**Note:** The thesis-based independent research project required in many Honors programs must be completed at the University of Alberta.

## Science Internship Program

The Science Internship Program (SIP) offers science undergraduate students work experience opportunities in addition to their academic courses.

To be eligible to register in this program, a student must:

1. Have successfully completed a minimum of 48 units of course weight, and not more than 105 units of course weight, of a ~~Pre-Fall 2024 program with a declared major or the Bachelor of Science (Major and Honors) program with a declared subject area.~~
2. Have a minimum 2.3 GPA in the previous Fall/Winter Terms.

Students accepted into the program will receive access to approved position descriptions from employers wishing to hire SIP students. Employers are responsible for interviewing and selecting students for the positions. The internship may begin in May, September or January and must be of at least 8 months duration, but may extend to up to 16 months.

Students are limited to one 8 (may consist of two separate 4 month placements), 12 (continuous) or 16 (continuous) month internship placement during their undergraduate degree. Work during the internship period is full time, for which the student is paid by the employer at competitive rates. The student, employer and the Faculty must agree to terms of the internship. During the period of the internship, the student registers in a work experience (WKEXP) course each term and is considered a full-time student at the University of Alberta. All students must register in a minimum of two WKEXP courses that have associated fees.

To successfully complete the SIP, students must complete a minimum of eight months of the following WKEXP courses: [WKEXP 955](#), [WKEXP 956](#), [WKEXP 957](#) and [WKEXP 958](#). An eight month placement may

be comprised of two four month placements. Students who have completed one four month WKEXP and are not able to secure a second will receive acknowledgment of one WKEXP course on their transcript but will not receive the SIP designation. The ultimate responsibility for securing work rests with the student and there is no guarantee that all qualified students will be placed.

Work experience courses are assigned no units of course weight and are graded credit/no credit. Grades are determined by the student's job performance as evaluated by the employer, and/or by the successful completion of assignments as assigned by the Faculty or designate.

The Science Internship Program Coordinator maintains contact at approximately four-month intervals with the student and the person designated by the employer to be responsible for the student's progress. During this **time** if the student's performance is not satisfactory as evaluated by the employer, the internship may be terminated and the student would then return to classes at the next available opportunity. Following completion of the work **experience** students return to the university to complete their degree program of studies.

Students should be aware that under the *Protection for Persons in Care Act*, all new employees, volunteers and other people engaged for services by designated agencies (hospitals, nursing homes, lodges, group homes, etc.) must complete a Police Information Check (also known as a Criminal Record Check, Security Clearance Check, or Police Clearance), which must include a Vulnerable Sector Check. In addition, certain other agencies, organizations, and educational facilities may require students to present a Police Information Check prior to entering a practicum, work placement term, internship, or field experience placement. Students who have concerns related to their ability to provide a clear Police Information Check should consult with the Associate Dean, Undergraduate. Students will be informed of the need for a Police Information Check prior to specific practicum (field experience) placement. See Requirement for Police Information Checks for more information on the general requirements concerning Police Information Checks and the fees associated with them.

be comprised of two four month placements. Students who have completed one four month WKEXP and are not able to secure a second will receive acknowledgment of one WKEXP course on their transcript but will not receive the SIP designation. The ultimate responsibility for securing work rests with the student and there is no guarantee that all qualified students will be placed.

Work experience courses are assigned no units of course weight and are graded credit/no credit. Grades are determined by the student's job performance as evaluated by the employer, and/or by the successful completion of assignments as assigned by the Faculty or designate.

The Science Internship Program Coordinator maintains contact at approximately four-month intervals with the student and the person designated by the employer to be responsible for the student's progress. During this **time**, if the student's performance is not satisfactory as evaluated by the employer, the internship may be terminated and the student would then return to classes at the next available opportunity. Following completion of the work **experience**, students return to the university to complete their degree program of studies.

Students should be aware that under the *Protection for Persons in Care Act*, all new employees, volunteers and other people engaged for services by designated agencies (hospitals, nursing homes, lodges, group homes, etc.) must complete a Police Information Check (also known as a Criminal Record Check, Security Clearance Check, or Police Clearance), which must include a Vulnerable Sector Check. In addition, certain other agencies, organizations, and educational facilities may require students to present a Police Information Check prior to entering a practicum, work placement term, internship, or field experience placement. Students who have concerns related to their ability to provide a clear Police Information Check should consult with the Associate Dean, Undergraduate. Students will be informed of the need for a Police Information Check prior to specific practicum (field experience) placement. See Requirement for Police Information Checks for more information on the general requirements concerning Police Information Checks and the fees associated with them.

Detailed information about the Science Internship Program is available at [uab.ca/ScienceInternship](http://uab.ca/ScienceInternship).

## Science After Degrees

1. All of the admission, program, academic standing and graduation standards that apply to a regular Bachelor of Science degree also apply to After Degree programs, except as noted in [Graduation Year](#).
2. All students in After Degree programs must follow the program to which they have been admitted and must demonstrate progress towards completion of the degree in each Fall/Winter (see [Graduation Year](#)).
3. To complete an After Degree, a minimum 30 units of course weight will be required if the student holds a BSc degree from the Faculty of Science at the University of Alberta, and a minimum of 60 units of course weight will be required if the student holds an undergraduate degree from another Faculty or University. The actual number of credits required to complete an After Degree is dependent on the coursework that was completed prior to the After Degree program and will be determined at the time of admission.
4. In a BSc General After Degree program, students with a previous BSc General degree from the Faculty of Science at the University of Alberta must complete a minimum of 9 senior units of course weight in their major and a minimum of 6 senior units of course weight in their minor while registered in the After Degree program. Students holding a degree from outside the Faculty of Science at the University of Alberta must complete a minimum of 18 senior units of course weight in their major and a minimum of 12 senior units of course weight in their minor while registered in the After Degree program.
5. In a BSc Specialization or BSc Honors After Degree program, students with a previous undergraduate degree from the Faculty of Science at the University of Alberta must complete a minimum of 15 senior units of course weight in the area of concentration of the new degree while registered in the After Degree program. Students holding a degree

Detailed information about the Science Internship Program is available at [uab.ca/ScienceInternship](http://uab.ca/ScienceInternship).

## Science After Degrees

1. All students in After Degree programs must follow the program to which they have been admitted and must demonstrate progress towards completion of the degree in each Fall/Winter (see [Graduation Year](#)).
2. After Degree students holding any BSc degree from the Faculty of Science at the University of Alberta must complete a minimum of 30 units of course weight while registered in the After Degree program. This includes a minimum number of senior units of course weight in their subject area(s), as follows:
  - a. Major subject area: 9 units
  - b. Honors subject area: 15 units
  - c. Minor subject area (if applicable): 6 units
3. After Degree students holding a degree from outside the Faculty of Science at the University of Alberta must complete a minimum of 60 units of course weight while registered in the After Degree program. This includes a minimum number of senior units of course weight in their subject area(s), as follows:
  - a. Major subject area: 18 units
  - b. Honors subject area: 24 units
  - c. Minor subject area (if applicable): 12 units
4. The actual number of credits required to complete an After Degree is dependent on the coursework that was completed prior to the After Degree program and will be determined at the time of admission.

<p>from outside the Faculty of Science at the University of Alberta must complete a minimum of 24 units of course weight in the area of concentration of the new degree while registered in the After Degree program.</p>	
---	--

<https://calendar.ualberta.ca/content.php?catoid=39&navoid=12232>

Current Copy: <del>Removed language</del>	Proposed Copy: <del>New language</del>
<p><b><del>Faculty of Science Courses</del></b></p> <ul style="list-style-type: none"> <li><del>• <a href="#">Course Listings</a></del></li> <li><del>• <a href="#">Prerequisites</a></del></li> <li><del>• <a href="#">Course Exceptions</a></del></li> <li><del>• <a href="#">Course Exclusion Lists</a></del></li> <li><del>• <a href="#">Graduate Courses</a></del></li> </ul> <p><b><del>Course Listings</del></b></p> <p>Science courses can be found in <a href="#">Course Listings</a>, under the following subject headings:</p> <p>Astronomy (ASTRO)            Biochemistry (taught by the Faculty of Medicine and Dentistry) (BIOCH)            Biochimie (BIOGM) (Faculté Saint-Jean)            Biological Science – Biology (BIOL)            Biological Science – Botany (BOT)            Biological Science – Entomology (ENT)            Biological Science – Genetics (GENET)            Biological Science – Microbiology (MICRB)            Biological Science – Zoology (ZOOL)            Biologie (BIOLE) (Faculté Saint-Jean)            Cell Biology (taught by the Faculty of Medicine and Dentistry) (CELL)            Chemistry (CHEM)            Chimie (CHIM) (Faculté Saint-Jean)            Computing Science (CMPUT)            Earth and Atmospheric Sciences [formerly Geography and Geology (EAS)]</p>	<p><del>[please remove this entire section]</del></p> <p><del>[obsolete]</del></p>

Geophysics (GEOPH)  
 Immunology and Infection (IMIN)  
 Interdisciplinary Courses offered by the Faculty of Science (INT-D)  
 Laboratory Animal Management (LB-AN)  
 Marine Science (MA-SG)  
 Mathematical Physics (MA-PH)  
 Mathematics (MATH)  
 Mathématiques (MATHQ) (Faculté Saint-Jean)  
 Neuroscience (taught by the Faculty of Medicine and Dentistry) (NEURO)  
 Paleontology (PALEO)  
 Pharmacology (taught by the Faculty of Medicine and Dentistry) (PMCOL)  
 Physiology (taught by the Faculty of Medicine and Dentistry) (PHYSL)  
 Physics (PHYS)  
 Physique (PHYSQ) (Faculté Saint-Jean)  
 Psychology (PSYCH)  
 Science (SCI)  
 Sciences de la Terre et de l'atmosphère (SCTA) (Faculté Saint-Jean)  
 Statistics (STAT)  
 Statistique (STATQ) (Faculté Saint-Jean)

## Prerequisites

Where a prerequisite is stated in a course description, it is understood that equivalent courses may satisfy the requirement. Also, the department offering a course with prerequisite requirements may waive the prerequisite in writing. (Prerequisite waiver forms are available from the Faculty of Science office and the Department offices.)

## Course Exceptions

### Biochemistry Courses

All-BIOCH courses can be used by students in the Faculty of Science as science courses.

### Cell Biology Courses

All-CELL courses can be used by students in the Faculty of Science as science courses.

[redundant]

[incorporated in Definitions, with minor corrections]

### **Food Science Courses**

[NU FS 363](#) may be used by students in the Faculty of Science as a science course in Microbiology.

### **Human Geography/Planning Courses**

[HGEO 470](#) or [PLAN 470](#) may be used by students in the Faculty of Science as a science course.

### **Medical Microbiology Courses**

All MMI courses, with the exception of [MMI 133](#), may be used by students in the Faculty of Science as science courses.

### **Neuroscience Courses**

All NEURO courses may be used by students in the Faculty of Science as science courses.

### **Pharmacology Courses**

All PMCOL courses, with the exception of [PMCOL 300](#), may be used by students in the Faculty of Science as science courses.

### **Physiology Courses**

All PHYSL courses, with the exception of [PHYSL 600](#), may be used by students in the Faculty of Science as science courses.

## **Course Exclusion Lists**

Each Credit Exclusion List below lists courses in which there is sufficient overlap that credit will be granted for only one of the courses in any degree offered by the Faculty of Science. This does not imply that courses listed together are interchangeable. Program specifications may require a specific course. A student who fails a course may attempt that course once more or may attempt one other from the same Credit Exclusion list, but only once. A student who passes a course may not take for higher standing that course or another course on the same Credit Exclusion list.

[moved to the Faculty of Science Regulations section]

Credit will be granted in only one of [NEURO 375](#) or [ANAT 401](#) in any degree offered by the Faculty of Science.

Credit will be granted in only one of [PHYSL 210](#) or ([ZOO 241](#) and [ZOO 242](#)) in any degree offered by the Faculty of Science.

Credit will be granted in only one of ([PHYSL 212](#) and [PHYSL 214](#)) or ([ZOO 241](#) and [ZOO 242](#)) in any degree offered by the Faculty of Science.

Credit will be granted in only one of [ACCTG 300](#) or [ACCTG 311](#) in any degree offered by the Faculty of Science. [ACCTG 300](#) will be declared extra to the degree for any Science program requiring [ACCTG 311](#).

Credit will be granted in only one of [ANAT 200](#), [KIN 100](#), [NURS 106](#), [NURS 140](#) or [PTHER 350](#) in any degree offered by the Faculty of Science.

Credit will not be granted for MIS 311, [BTM 311](#), MIS 415, BTM 415, MIS 419 or [BTM 419](#) towards the BSc Specialization in Computing Science in Software Practice degree or the BSc Specialization in Computing Science - Minor in Business degree. In all other degrees offered by the Faculty of Science, credit will be granted in only one of [CMPUT 301](#) or MIS 419 or [BTM 419](#).

Credit will be granted in only one of [STAT 252](#) or [MGTSC 312](#) in any degree offered by the Faculty of Science. [MGTSC 312](#) will be declared extra to the degree for any Science program requiring [STAT 252](#).

Credit will be granted in only one of [STAT 151](#), [STAT 161](#), [KIN 109](#), [PTHER 352](#) or [SOC 210](#) in any degree offered by the Faculty of Science. [KIN 109](#), [PTHER 352](#) or [SOC 210](#) will be declared extra to the degree for any Science program requiring [STAT 151](#) or [STAT 161](#).

## Graduate Courses

Courses numbered 500 and up are restricted to graduate students and normally may not be taken for credit by undergraduate science students without

[moved to the Faculty of Science Regulations section]



<p>prior written permission by the Associate Dean, Undergraduate or designate.</p>	
--	--

**Table with Continuation Requirements for Pre-Fall 2024 Programs**  
 [to be inserted in Academic Standing, paragraph 2(a)(ii)]

Pre-Fall 2024 Degree Program	Minimum Fall/Winter GPA	Additional Requirements
BSc General	2.0	N/A
BSc Specialization in <ul style="list-style-type: none"> <li>• Astrophysics</li> <li>• Cell Biology</li> <li>• Ecology, Evolution and Environmental Biology</li> <li>• Environmental Earth Sciences</li> <li>• Geology</li> <li>• Geophysics</li> <li>• Immunology and Infection</li> <li>• Integrative Physiology</li> <li>• Molecular, Cellular and Developmental Biology</li> <li>• Paleontology</li> <li>• Physics</li> <li>• Planning</li> <li>• Psychology</li> </ul>	2.3	N/A
BSc Specialization in Biochemistry	2.7	N/A
BSc Specialization in Chemistry	2.3	Minimum 2.3 GPA on all CHEM courses
BSc Specialization in Computing Science	2.3	Minimum 2.3 GPA on all CMPUT courses
BSc Specialization in <ul style="list-style-type: none"> <li>• Computing Science - Business Minor</li> <li>• Computing Science - Software Practice</li> </ul>	2.3	Minimum 2.3 GPA on all CMPUT and Business courses
BSc Specialization in Mathematics	2.3	Minimum 2.3 GPA on all MATH courses
BSc Specialization in Mathematics -	2.3	Minimum 2.3 GPA on all CMPUT, MATH, and

Computational Science		STAT courses
BSc Specialization in Mathematics and Economics	2.3	Minimum 2.3 GPA on all ECON, MATH, and STAT courses
BSc Specialization in Mathematics and Finance	2.3	Minimum 2.3 GPA on all ACCTG, ECON, FIN, MATH, MGTSC, OM, and STAT courses
BSc Specialization in Pharmacology	2.7	Minimum 2.7 GPA on all Science courses, and minimum 2.7 GPA on all PMCOL courses
BSc Specialization in Statistics	2.3	Minimum 2.3 GPA on all MATH and STAT courses
BSc Honors in <ul style="list-style-type: none"> <li>• Astrophysics</li> <li>• Biochemistry</li> <li>• Cell Biology</li> <li>• Ecology, Evolution and Environmental Biology</li> <li>• Environmental Earth Sciences</li> <li>• Geology</li> <li>• Geophysics</li> <li>• Immunology and Infection</li> <li>• Integrative Physiology</li> <li>• Mathematical Physics</li> <li>• Molecular, Cellular and Developmental Biology</li> <li>• Paleontology</li> <li>• Physics</li> </ul>	3.0	N/A
BSc Honors in <ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Applied Mathematics - Minor in Computing Science</li> <li>• Applied Mathematics - Minor in Statistics</li> </ul>	3.0	Minimum 3.0 GPA on all MATH courses
BSc Honors in Chemistry	3.0	Minimum 3.0 GPA on all CHEM courses
BSc Honors in Computing Science	3.0	Minimum 3.0 GPA on all CMPUT courses
BSc Honors in <ul style="list-style-type: none"> <li>• Mathematics</li> <li>• Mathematics - Minor in Computing Science</li> <li>• Mathematics - Minor in Statistics</li> </ul>	3.0	Minimum 3.0 GPA on all MATH courses
BSc Honors in Mathematics and Economics	3.0	Minimum 3.0 GPA on all ECON, MATH, and STAT courses

BSc Honors in Mathematics and Finance	3.0	Minimum 3.0 GPA on all ACCTG, ECON, FIN, MATH, MGTSC, OM, and STAT courses
BSc Honors in Neuroscience	3.3	N/A
BSc Honors in Pharmacology	3.0	Minimum 3.0 GPA on all Science courses, minimum 3.0 GPA on all PMCOL courses, and minimum grade of B- in each PMCOL course
BSc Honors in Physiology	3.0	Minimum grade of B in PHYSL 212 and PHYSL 214 in Year 2 (if applicable)
BSc Honors in Psychology	3.3	N/A
BSc Honors in Statistics	3.0	Minimum 3.0 GPA on all MATH and STAT courses

**Table with Graduation Requirements for Pre-Fall 2024 Programs**

[to be inserted in Graduation, paragraph 1(a)]

Pre-Fall 2024 Degree Program	Graduation Requirements
BSc General	<ul style="list-style-type: none"> <li>Minimum 2.0 GPA in the final Fall/Winter</li> <li>Minimum 2.0 GPA on the last 60 units credited to the degree</li> <li>Minimum 2.3 GPA on all courses credited to the Major</li> </ul>
BSc Specialization in <ul style="list-style-type: none"> <li>Astrophysics</li> <li>Geophysics</li> <li>Physics</li> </ul>	<ul style="list-style-type: none"> <li>Minimum 2.3 GPA in the final Fall/Winter</li> <li>Minimum 2.3 GPA on the last 90 units credited to the degree</li> </ul>
BSc Specialization in Biochemistry	<ul style="list-style-type: none"> <li>Minimum 2.7 GPA in the final Fall/Winter</li> <li>Minimum 2.7 GPA on the last 60 units credited to the degree</li> </ul>
BSc Specialization in Cell Biology	<ul style="list-style-type: none"> <li>Minimum 2.3 GPA in the final Fall/Winter</li> </ul>
BSc Specialization in Chemistry	<ul style="list-style-type: none"> <li>Minimum 2.3 GPA in the final Fall/Winter</li> <li>Minimum 2.3 GPA on all CHEM courses completed in the final Fall/Winter</li> <li>Minimum 2.3 GPA on the last 90 units credited to the degree</li> </ul>
BSc Specialization in Computing Science	<ul style="list-style-type: none"> <li>Minimum 2.3 GPA in the final Fall/Winter</li> <li>Minimum 2.3 GPA on all CMPUT courses completed in the final Fall/Winter</li> <li>Minimum 2.3 GPA on the last 60 units credited to the degree</li> <li>Minimum 2.3 GPA on all CMPUT courses credited to the degree</li> </ul>

<p>BSc Specialization in</p> <ul style="list-style-type: none"> <li>• Computing Science - Business Minor</li> <li>• Computing Science - Software Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all CMPUT and Business courses completed in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on the last 60 units credited to the degree</li> <li>• Minimum 2.3 GPA on all CMPUT and Business courses credited to the degree</li> </ul>
<p>BSc Specialization in</p> <ul style="list-style-type: none"> <li>• Ecology, Evolution and Environmental Biology</li> <li>• Immunology and Infection</li> <li>• Integrative Physiology</li> <li>• Molecular, Cellular and Developmental Biology</li> <li>• Paleontology</li> <li>• Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all courses credited to the degree</li> </ul>
<p>BSc Specialization in</p> <ul style="list-style-type: none"> <li>• Environmental Earth Sciences</li> <li>• Geology</li> <li>• Planning</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on the last 60 units credited to the degree</li> </ul>
<p>BSc Specialization in Mathematics</p>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all MATH courses completed in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all courses credited to the degree</li> <li>• Minimum 2.3 GPA on all MATH courses credited to the degree</li> </ul>
<p>BSc Specialization in Mathematics - Computational Science</p>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all CMPUT, MATH, and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all courses credited to the degree</li> <li>• Minimum 2.3 GPA on all CMPUT, MATH, and STAT courses credited to the degree</li> </ul>
<p>BSc Specialization in Mathematics and Economics</p>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all ECON, MATH, and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all courses credited to the degree</li> <li>• Minimum 2.3 GPA on all ECON, MATH, and STAT courses credited to the degree</li> </ul>
<p>BSc Specialization in Mathematics and Finance</p>	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all ACCTG, ECON, FIN, MATH, MGTSC, OM, and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all courses credited to the degree</li> </ul>

	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA on all ACCTG, ECON, FIN, MATH, MGTSC, OM, and STAT courses credited to the degree</li> </ul>
BSc Specialization in Pharmacology	<ul style="list-style-type: none"> <li>• Minimum 2.7 GPA in the final Fall/Winter</li> <li>• Minimum 2.7 GPA on all Science courses completed in the final Fall/Winter</li> <li>• Minimum 2.7 GPA on all PMCOL courses completed in the final Fall/Winter</li> </ul>
BSc Specialization in Statistics	<ul style="list-style-type: none"> <li>• Minimum 2.3 GPA in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all MATH and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 2.3 GPA on all courses credited to the degree</li> <li>• Minimum 2.3 GPA on all MATH and STAT courses credited to the degree</li> </ul>
BSc Honors in <ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Applied Mathematics - Minor in Computing Science</li> <li>• Applied Mathematics - Minor in Statistics</li> <li>• Mathematics</li> <li>• Mathematics - Minor in Computing Science</li> <li>• Mathematics - Minor in Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all MATH courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all courses credited to the degree</li> <li>• Minimum 3.0 GPA on all MATH courses credited to the degree</li> </ul>
BSc Honors in <ul style="list-style-type: none"> <li>• Astrophysics</li> <li>• Geophysics</li> <li>• Mathematical Physics</li> <li>• Physics</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on the last 90 units credited to the degree</li> </ul>
BSc Honors in <ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Ecology, Evolution and Environmental Biology</li> <li>• Environmental Earth Sciences</li> <li>• Geology</li> <li>• Immunology and Infection</li> <li>• Integrative Physiology</li> <li>• Molecular, Cellular and Developmental Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on the last 60 units credited to the degree</li> </ul>

<ul style="list-style-type: none"> <li>• Paleontology</li> </ul>	
<p>BSc Honors in</p> <ul style="list-style-type: none"> <li>• Cell Biology</li> <li>• Physiology</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> </ul>
BSc Honors in Chemistry	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all CHEM courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on the last 90 units credited to the degree</li> </ul>
BSc Honors in Computing Science	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all CMPUT courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on the last 60 units credited to the degree</li> <li>• Minimum 3.0 GPA on all CMPUT courses credited to the degree</li> </ul>
BSc Honors in Mathematics and Economics	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all ECON, MATH, and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all courses credited to the degree</li> <li>• Minimum 3.0 GPA on all ECON, MATH, and STAT courses credited to the degree</li> </ul>
BSc Honors in Mathematics and Finance	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all ACCTG, ECON, FIN, MATH, MGTSC, OM, and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all courses credited to the degree</li> <li>• Minimum 3.0 GPA on all ACCTG, ECON, FIN, MATH, MGTSC, OM, and STAT courses credited to the degree</li> </ul>
BSc Honors in Neuroscience	<ul style="list-style-type: none"> <li>• Minimum 3.3 GPA in the final Fall/Winter</li> <li>• Minimum 3.3 GPA on the last 60 units in Year 3 and 4 of the program</li> </ul>
BSc Honors in Pharmacology	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all Science courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all PMCOL courses completed in the final Fall/Winter</li> <li>• Minimum grade of B- in each PMCOL course completed in the final Fall/Winter</li> </ul>
BSc Honors in Psychology	<ul style="list-style-type: none"> <li>• Minimum 3.3 GPA in the final Fall/Winter</li> </ul>
BSc Honors in Statistics	<ul style="list-style-type: none"> <li>• Minimum 3.0 GPA in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all MATH and STAT courses completed in the final Fall/Winter</li> <li>• Minimum 3.0 GPA on all courses credited to the degree</li> <li>• Minimum 3.0 GPA on all MATH and STAT courses credited to the degree</li> </ul>

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Faculty of Science Undergraduate Programs Committee: November 30, 2023
--

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.
---

131<sup>st</sup> COUNCIL OF THE FACULTY OF SCIENCE

23 May 2019

9:00 AM to 10:30 AM

Council Chamber

**Ex-Officio:** F Marsiglio (Chair); J Bagwe, J Beamish, D Beaver, G de Vries, T Evans, S Gannon, S Guenette, K Johnston, S Johnston, R Joshi, L Mason, T McGee, C McDermott, M McDermott, J Naylor, E Nicoladis, J Pascoe, B Peavey, G Sivakoff, E Stroulia, C Sturdy, W Wakarchuk, F West, L Willis, M Wolansky

**Additional Members:** B Biddlecombe, B Cockburn, C Holmes, M de Montigny, J Hammond, F Sabac, K Shanebeck, J Welchman

**1. Approval of Agenda**

It was moved/seconded by E Stroulia/F West, that the agenda be accepted as circulated.

CARRIED

**2. Notes for the 130<sup>th</sup> Faculty Council Meeting, May 24, 2018**

It was moved/seconded by M de Montigny/R Joshi, that the notes of the 130<sup>th</sup> meeting of Council, be approved as circulated.

CARRIED

**3.1 a) Information Graduands lists**

Information on the Spring 2019 graduand list was provided by the Associate Dean (Undergraduate).

Total Graduands - 1007; BSc Honors - 142, 73% with First class honors (104 total); BSc Specialization - 314, 31% with Distinction; BSc General (including business minor) – 547; BSc/BEd combined – 4; Science Internship Program - 63

**3.1 b) Motion to permit addition of names to the Graduand list**

It was moved/seconded by G de Vries/J Naylor, that the Faculty Office be empowered to amend or add names to the list of graduands, as required.

CARRIED

**3.2 Proposed Calendar Changes to Faculty-wide Regulations Governing Undergraduate Programs**

It was moved/seconded by E Stroulia/J Naylor, to approve the calendar revisions as proposed on pages 5-11, namely (1) to remove the deferral of academic standing for students who are in their final Fall/Winter in the BSc General program and attempt less than \*9, and (2) to remove the provision to gain admission or readmission with an AGPA of 2.7 on \*18 or an AGPA of 2.0 on \*24..

CARRIED

It was moved/seconded by W Wakarchuk/ M McDermott, to approve the calendar revision as proposed on pages 12-13, namely to provide timelines within which students in the BSc General program must declare their Major/Minor.

CARRIED

It was moved/seconded by F West/ J Naylor, to approve the calendar revision as proposed on page 14, namely to allow the Faculty of Science to apply to graduate on behalf of a student who has met degree requirements.

CARRIED



It was moved/seconded by W Wakarchuk/ M McDermott, to approve the calendar revisions as proposed on pages 15-21, namely to remove the requirement for students to carry a course load of at least \*24 in their last two years of study in order to qualify for the graduation honorifics First-Class Honors and With Distinction. **CARRIED**

It was moved/seconded by L Willis/J Naylor, to approve the calendar revision as proposed on the handout circulated today, namely to discontinue the yearly honorific First Class Standing, also known as the Dean's Honor List. **CARRIED**

### **3.3 Science Faculty Council - Composition**

It was moved/seconded by J Pascoe/E Stroulia to approve the Science Chairs' recommendation with an amendment to include "All" Academic Administrators (Maps) as Ex Officio members of Science Faculty Council. **CARRIED**

### **3.4 The Faculty of Science Graduate Mentoring Award - Revisions**

It was moved/seconded by C Sturdy/E Stroulia to accept the Science Chairs' recommendation to approve the proposed revisions to the *Faculty of Science Graduate Mentoring Award*, with an amendment to include "as well as two graduate student representatives chosen by the Associate Dean (Graduate) in collaboration with Science departments' graduate student associations". **CARRIED**

### **4.1 Gold and Silver Medalists**

Science Chairs approved the following Gold Medal winners:

**Samin Dolatabadi** (BSc General, Physical Science minor) receive the Dean's Gold Medal in Science.

**Kaitlyn Sosnowski** (BSc with Specialization, Biological Sciences) and **Emma Zwaigenbaum** (BSc with Specialization, Immunology/Infection) receive the Gold Medal in Science,

**Zach Goldthorpe** (BSc Honors, Mathematics) receive the Lieutenant Governor's Gold Medal.

#### **Dean's Silver Medals, Spring Convocation 2019**

The Dean's Silver Medals are awarded annually to convocating students with superior academic achievement enrolled in an Honors program in the Faculty of Science. Recipients must have had a minimum grade point average of at least 3.7 on a full course load in three Fall/Winter academic sessions while enrolled in the Faculty of Science. This year there are **44** Silver Medalists.

### **4.2 New Academic Staff Appointments**

A list of new academic staff appointments was circulated with the agenda for information.

### **4.3 Academic Staff Promotions and/or Tenure/Continuing Appointments**

A list of academic staff promotions and/or tenure/continuing appointments was circulated with the agenda for information.

### **Adjournment**

There being no other business, the meeting was adjourned.



## CALENDAR CHANGE REQUEST FORM

Highlight type of change request below:

- |   |   |                                 |                          |
|---|---|---------------------------------|--------------------------|
| 1. <b>Course Change</b><br>(new course, change to existing course, course deletion) | 2. <b>Editorial Change</b><br>(basic editing) | 3. <b>Admission Requirement</b> | 4. <b>Program Change</b> |
|---|---|---------------------------------|--------------------------|

**5. Faculty Regulations**

<b>CURRENT</b>	<b>PROPOSED</b>
<p><a href="https://calendar.ualberta.ca/content.php?catoid=29&amp;navoid=7266#academic-standing">https://calendar.ualberta.ca/content.php?catoid=29&amp;navoid=7266#academic-standing</a></p> <p>The Faculties &gt; Faculty of Science &gt; Faculty Regulations &gt; Academic Standing</p>	
<p><del>Strike through and highlight</del> deletions</p> <h3 style="margin-top: 20px;">Academic Standing</h3> <p>1. Academic standing is used to determine the eligibility of students to continue or graduate from their programs. The academic standing of all students in the Faculty of Science is assessed annually on the basis of the Grade Point Average (GPA) calculated on all <b>coursework attempted in the Fall/Winter</b>. Spring and Summer work is not included. The assessment of students in BSc Specialization and BSc Honors programs also takes into consideration the minimum course load requirements of the particular program, as well as any specific grade or GPA requirements.</p> <p>For students in the BSc General program, the Faculty may defer the assessment of academic standing for one Fall/Winter for students who attempt less than ★9. In such cases, the academic standing assigned at the last assessment remains in effect until the conclusion of the next Fall/Winter.</p>	<p><u>Underline and highlight</u> additions</p> <h3 style="margin-top: 20px;">Academic Standing</h3> <p>1. Academic standing is used to determine the eligibility of students to continue or graduate from their programs. The academic standing of all students in the Faculty of Science is assessed annually on the basis of the Grade Point Average (GPA) calculated on all <b>coursework attempted in the Fall/Winter</b>. Spring and Summer work is not included. The assessment of students in BSc Specialization and BSc Honors programs also takes into consideration the minimum course load requirements of the particular program, as well as any specific grade or GPA requirements.</p> <p>For students in the BSc General program, the Faculty may defer the assessment of academic standing for one Fall/Winter for students who attempt less than ★9. In such cases, the academic standing assigned at the last assessment remains in effect until the conclusion of the next Fall/Winter.</p>
<p><b>2. Academic Standing Assessment</b></p>	<p><b>2. Academic Standing Assessment</b></p>

<p>a. <b>First Class Standing</b>, also referred to as the <b>Dean's Honor Roll</b>, is assigned to students who successfully complete at least <b>★24</b> and achieve a minimum <b>3.5 GPA</b>. First class standing is also assigned to students who, as a result of participation in <b>Education Abroad or SIP Work Experience</b>, attend only one term of a <b>Fall/Winter</b> and successfully complete at least <b>★12</b> with a minimum <b>3.5 GPA</b>.</p>	<p>a. <b>First Class Standing</b> <u>no longer is assigned.</u></p>
---	---

**Rationale for change:** (Not required for course deletion or editorial changes)

We recognize that not all students are able to carry a course load of at least ★24 for a number of life circumstances. Under the Discrimination, Harassment and Duty to Accommodate Policy (UAPPOL), we cannot discriminate against students who are unable to carry a course load of at least ★24 for reasons of a protected ground under human rights legislation.

While some students may come forward with information about their particular life circumstance warranting an exception to the requirements to carry a course load of at least ★24, many students will not. Even if all students did, it is impossible to assign a weight to a student's particular life circumstance and determine an appropriate adjustment to the minimum course load. In addition, it would be difficult to keep a meaningful and accurate registry of students' life circumstance over time (which may change over the student's undergraduate career).

In fairness to all, we no longer will assign the First Class Standing honorific.

<p><b>Department Contact</b></p>	<p><b>Department Chair / Associate Dean / Designate</b></p> <p>Gerda de Vries, Associate Dean Undergraduate</p> <p><a href="mailto:sciadu@ualberta.ca">sciadu@ualberta.ca</a></p> <p>780-492-2076</p>	<p><b>Date approved by Chairs' Council:</b></p> <p>May 16, 2019</p>
		<p><b>Date approved by Faculty Council:</b></p>

**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:** To seek approval of a new Graduate Embedded Certificate in Epidemiology and Applied Biostatistics.

<b>DATE</b>	January 11, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	School of Public Health

**MOTION:** THAT the GFC Program Committee, with delegated authority from General Faculties Council, approve the proposed Graduate Embedded Certificate in Epidemiology and Applied Biostatistics as proposed by the School of Public Health and as set forth in Attachment 1, for implementation upon approval and inclusion in the 2024-2025 University Calendar.

---

## **EXECUTIVE SUMMARY:**

### Background

Ten years ago, the Department of Public Health Sciences introduced MPH degree programs in both Epidemiology and Applied Biostatistics, along with several other specializations. Given the introduction of the new MPH in General Public Health degree in Fall 2023 and suspension of admission to the current MPH specializations, SPH is developing GECs in strategic areas that will equip graduates with practice-ready methodological, analytical, and technical skills needed in the field of public health and beyond. Graduate students will be able to opt to complete the proposed GEC to complement and enrich their MPH in General Public Health or other University of Alberta degree.

There is currently a shortage of professionals with formal training in Epidemiology and Biostatistics. Even more, when it comes to methodology, data analysis and interpretation, and causal inference, many rely on google searches for bits of statistical analysis code, much similar to a black box, lacking in-depth understanding of pitfalls, and may lead to distorted and erroneous scientific interpretations. There is a need for professionals with sound Epidemiological and Biostatistics training in the biomedical and public health fields, who work in government, non-governmental, industry and research sectors in Canada and internationally.

The proposed GEC aligns with the SPH criteria for GECs:

### **Innovative and competitive niche**

Our Epidemiology and Biostatistics courses are in high demand. We have already tailored our course material to achieve a difficult goal of teaching a very broad audience with diverse backgrounds. The GEC will be an immediate, attractive and innovative option for these audiences, without the need to over-specialize.

---

## **GOVERNANCE OUTLINE**



**ITEM NO. 8**

Given the need for study design, data analysis and interpretation naturally involved in the thesis projects, in many of the MSc and PhD programs, a GEC in Epidemiology and Applied Biostatistics will be an attractive option not only for SPH students but also for students in other faculties, such as Faculty of Medicine & Dentistry, Nursing, Rehabilitation Medicine, Biomedical Engineering, and Kinesiology, Sport, and Recreation.

**Builds on SPH strengths**

SPH is the right place to gain competence in Epidemiology and Biostatistics. Students can reach out to several faculty members specialized in a variety of research areas, such as: population-level interventions for preventing obesity and chronic disease, chronic disease management and health-care service delivery, social and economic factors that contribute to behavioural and health outcomes, injury prevention and injury outcomes in Canada, respiratory diseases, including asthma and genetic epidemiology, as well as gene-environment interaction, data science methods in public health and biomedical research, including statistical methods for identifying disease markers from data generated by biotechnological advancements, such as genomic, proteomic, metabolomic and gut microbiota studies.

**Builds on, but does not duplicate core or required degree curricula**

A student can complete the course requirements for the GEC in Epidemiology and Applied Biostatistics with existing SPH courses; we would like to point out that it appears that we are proposing two new courses, however, these are simply supplementing existing in person courses with online modules giving students more flexibility to acquire the GEC.

**Addresses the student experience**

Given the required field practicum in the MPH degrees, there are opportunities for students enrolled in the GEC Epidemiology and Applied Biostatistics to complete field practicum placements in a variety of settings, such as: Public Health Agency of Canada, Cancer Research Centres across Canada, Statistics Canada, Canadian Institute for Health Informatics. SPH already has a history of creating relevant applied practice experiences completed through the former MPH programs in Epidemiology and Applied Biostatistics. In addition, students enrolled in the proposed GEC will bring Epidemiological and Biostatistics expertise to placements spanning other public health domains.

**Extends SPH reach to increase accessibility & enrolment**

There is interest in Epidemiology and Biostatistics across many faculties. Many students from health science faculties have taken our Epidemiology and Biostatistics cumulative course series, getting the tools they need to design, analyze and interpret their own thesis research projects, as well as getting a much desired edge in the job market and in their careers. The GEC in Epidemiology and Applied Biostatistics will provide an option for graduate students in other faculties to gain a credential. This will attract more students to SPH programs. Historically, open studies students have sought to take our Epidemiology and Biostatistics course series.

**Creative configuration or potential for future creative configuration for continuing professional education**

We believe the GEC in Epidemiology and Applied Biostatistics could be a foundation for future continuing education or microcredentials for working professionals.



Analysis / Discussion

The GEC meets SPH GEC criteria. This GEC is novel and does not duplicate those being offered in our peer institutions. The GEC leverages the strengths of our very strong faculty research programs while responding to a known public health and public health education need and anticipating future challenges.

The GEC will be of interest to, and open to, students in the School of Public Health and other graduate students with an interest in allocation of scarce resources to initiatives to improve the health of populations. In addition:

- The GEC does not require ministry approval.
- The GEC will have no budgetary implications – no additional resources are required to deliver this GEC.
- The proposed GEC instructors fully understand that the allocation of scarce resources is distributed inequitably, especially among Indigenous and other equity-seeking groups, which has an impact on population health and health equity.
- The architects of this GEC is a group of dynamic young instructors with innovative teaching pedagogy that draws students into the challenging trade-offs involved in allocating scarce resources.
- Faculty GEC proponents serve as connectors to potential field practicum placements and research opportunities.
- We expect this GEC to be a foundation for future continuing education.

Risk Discussion / Mitigation of the Risk

Potential increase in teaching for the Epidemiology and Biostatistics professors within the School if the currently number of professors is reduced. As a solution innovative teaching pedagogy and delivery will be used.

Next Steps

Once approved the GEC will be actively advertised on the School of Public Health website, within the College of Health Sciences and University wide.

Registration forms will become available to all interested students.

**Supporting Materials:**

GEC Epidemiology and Applied Biostatistics Proposal

**\*See Schedule A for additional items to include if needed.**



**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

**Approval Route:**

May 2022: Department of Mathematical and Statistical Sciences ap

June 2022: SPH Committee on Educational Policies and Programs

June 20, 2023 : SPH-wide discussion

June 2022: SPH epidemiology and biostatistics professors were consulted via virtual meeting.

July 2022: Student Consultation-The faculty has also consulted current MPH students and recent MPH graduates on developing this Graduate Embedded Certificate (GEC). For example, surveys were administered and focus groups were conducted to gain student insight.

June 2023: Graduate Programs Support Team consultation.

September 2023 - November 2023: SPH Faculty Council Approval

September - November 2023:

Provost's Office programs team consultation (Dr. Janice Causgrove Dunn, Carley Roth, Suzanne French)

Dr. Florence Glanfield (Vice-Provost (Indigenous Programming and Research)) consultation

Dr. Carrie Smith (Vice-Provost (Equity, Diversity, and Inclusion)) consultation

FGSR Council - December 6, 2023

**Supplementary Notes / Context:**

### Embedded Credit Certificate Template

This template is to be used for proposals for new University of Alberta embedded credit certificates. Embedded credit certificates are taken concurrently with a degree program of the University of Alberta.

Development process: Faculties and Departments must consult with the Portfolio Initiatives Manager in the Office of the Provost and Vice-President (Academic) ([carley.roth@ualberta.ca](mailto:carley.roth@ualberta.ca)) on the appropriate template and process. Graduate proposers must also consult with the Faculty of Graduate Studies and Research ([fgsrgov@ualberta.ca](mailto:fgsrgov@ualberta.ca)).

Governance: Embedded credit certificates are reviewed by the relevant Program Support Team (Undergraduate or Graduate), and then approved by the following route: Faculty Council > GFC Programs Committee. In the event that the embedded certificate proposal includes significant resource (space, budget) implications, the proposal may also be sent to the GFC Academic Planning Committee for approval.

1: Basics		
Undergraduate Graduate		
<b>Embedded Certificate Name</b>	Graduate Embedded Certificate (GEC) in Epidemiology & Applied Biostatistics	
<b>Faculty/Department</b>	School of Public Health	
<b>Contact information</b>	Name and Title	Irina Dinu, Professor
	Phone	780-492-8337
	Email	idinu@ualberta.ca
	Name and Title	Roman Pabayo, Associate Professor
	Phone	780-492-8608
	Email	pabayo@ualberta.ca
<b>Proposed Effective Date</b>	For Immediate implementation and inclusion in the 2024-2025 Calendar	
<b>Units of Course Weight</b>	12 Units	





**Program Synopsis**

Describe the program. Include curriculum content, target student group, experiential learning opportunities (if applicable).

**GEC PROGRAM DESCRIPTION**

Epidemiology is the study of the frequency, distribution, and determinants of disease, health, and well-being in a population—a fundamental science of public health. Biostatistics applies statistical reasoning and methods to health-related fields including public health, medicine and biomedical sciences. As core disciplines of public health, epidemiology and biostatistics are concerned with key aspects of public health investigations, covering the study design, statistical design, conduct, analysis, and interpretation of studies, and understanding of causal inference. Epidemiological and biostatistical methods are used for a wide range of public health activities, such as assessing etiological hypotheses of diseases and injuries, evaluating effectiveness of intervention programs/policies/trials, and monitoring and detecting health trends of populations.

As part of interdisciplinary teams, epidemiologists and biostatisticians collaborate with practitioners and researchers in health-related fields, monitoring population health and evaluating public health interventions, with a high degree of quantitative expertise. This typically involves understanding health-related hypotheses and surrounding issues under study; putting them into a statistically evaluable framework which guides the study design and data collection; analyzing data with respect to the hypotheses and surrounding issues; using statistical software; providing interpretation of the analysis results. Epidemiologists and biostatisticians find employment in various types of organizations and settings, including government, non-governmental organizations, research centres/groups, and the private sector involved in health.

The proposed GEC in Epidemiology and Applied Biostatistics responds to a shortage of professionals who can effectively contribute to design, conduct, monitor, analyse, and interpret a wide range of health studies.

**Curriculum Content**

The Graduate Embedded Certificate (GEC) in Epidemiology and Applied Biostatistics will require successful completion of 12 units of coursework.

**Required courses:**

- SPH 519 Biostatistics I - 3 units
- SPH 619 Biostatistics II - 3 units
- SPH 596 Epidemiology methods I - 3 units
- SPH 696 Epidemiology methods II - 3 units

**Target Group**

MPH, MSc and PhD students are eligible to take the necessary courses to graduate with a GEC in Epidemiology and Applied Biostatistics.

This GEC provides a pathway for MPH in General Public Health students to obtain a credential in Epidemiology and Applied Biostatistics, given that the MPH in Epidemiology and Applied Biostatistics specializations have been suspended effective Fall 2023.

Given the popularity of the Epidemiology course series (Epidemiology I, II, and III) and the Biostatistics course series (Biostatistics I, II and III) offered by the SPH over the past 15+ years, an increasing enrolment of students from other faculties (e.g. Medicine & Dentistry, Nursing, Laboratory Medicine, Rehabilitation Medicine, Biomedical Engineering, and Kinesiology, Sport, and Recreation), a GEC in Epidemiology and Applied Biostatistics will be an attractive add-on to their degrees.

## 2: Rationale, Implications, and Impact

### Rationale for Introduction of Certificate

Identify the purpose of the proposal with supporting rationale and evidence of demand. E.g., consultations with students, wider community that demonstrate demand and/or value.

Ten years ago, the Department of Public Health Sciences introduced MPH degree programs in both Epidemiology and Applied Biostatistics, along with several other specializations. Given the introduction of the new MPH in General Public Health degree in Fall 2023 and suspension of the current MPH specializations, SPH is developing GECs in strategic areas that will equip graduates with practice-ready methodological, analytical, and technical skills needed in the field of public health and beyond. Graduate students will be able to opt to complete the proposed GEC to complement and enrich their MPH in General Public Health or other University of Alberta degree.

There is currently a shortage of professionals with formal training in Epidemiology and Biostatistics. Even more, when it comes to methodology, data analysis and interpretation, and causal inference, many rely on google searches for bits of statistical analysis code, much similar to a black box, lacking in-depth understanding of pitfalls, and may lead to distorted and erroneous scientific interpretations. There is a need for professionals with sound Epidemiological and Biostatistics training in the biomedical and public health fields, who work in government, non-governmental, industry and research sectors in Canada and internationally.

The proposed GEC aligns with the SPH criteria for GECs:

#### *Innovative and competitive niche*

Our Epidemiology and Biostatistics courses are in high demand. We have already tailored our course material to achieve a difficult goal of teaching a very broad audience with diverse backgrounds. The GEC will be an immediate, attractive and innovative option for these audiences, without the need to over-specialize.

Given the need for study design, data analysis and interpretation naturally involved in the thesis projects, in many of the MSc and PhD programs, a GEC in Epidemiology and Applied Biostatistics will be an attractive option not only for SPH students but also for students in other faculties, such as Faculty of Medicine & Dentistry, Nursing, Rehabilitation Medicine, Biomedical Engineering, and Kinesiology, Sport, and Recreation.

#### *Builds on SPH strengths*

SPH is the right place to gain competence in Epidemiology and Biostatistics. Students can reach out to several faculty members specialized in a variety of research areas, such as: population-level interventions for preventing obesity and chronic disease, chronic disease management and health-care service delivery, social and economic factors that contribute to behavioural and health outcomes, injury prevention and injury outcomes in Canada, respiratory diseases, including asthma and genetic epidemiology, as well as gene-environment interaction, data science methods in public health and biomedical research, including statistical methods for identifying disease markers from data generated by biotechnological advancements, such as genomic, proteomic, metabolomic and gut microbiota studies.

#### *Addresses the student experience*

Given the required field practicum in the MPH degrees, there are opportunities for students enrolled in the GEC Epidemiology and Applied Biostatistics to complete field practicum placements in a variety of settings, such as: Public Health Agency of Canada, Cancer Research Centres across Canada, Statistics Canada, Canadian Institute for Health Informatics. SPH already has a history of creating relevant applied practice experiences completed through the former MPH programs in Epidemiology and Applied Biostatistics. In addition, students enrolled in the proposed GEC will bring Epidemiological and Biostatistics expertise to placements spanning other public health domains.

	<p><i>Extends SPH reach to increase accessibility &amp; enrolment</i></p> <p>There is interest in Epidemiology and Biostatistics across many faculties. Many students from health science faculties have taken our Epidemiology and Biostatistics cumulative course series, getting the tools they need to design, analyze and interpret their own thesis research projects, as well as getting a much desired edge in the job market and in their careers. The GEC in Epidemiology and Applied Biostatistics will provide an option for graduate students in other faculties to gain a credential. This will attract more students to SPH programs. Historically, open studies students have sought to take our Epidemiology and Biostatistics course series.</p> <p><i>Creative configuration or potential for future creative configuration for continuing professional education</i></p> <p>We believe the GEC in Epidemiology and Applied Biostatistics could be a foundation for future continuing education or microcredentials for working professionals.</p>
<p><b>Strategic Alignment</b> How does the proposed program align with the strategic goals described in <i>For the Public Good, the University of Alberta's Strategic Plan for Equity, Diversity, and Inclusion, and Braiding Past, Present and Future: University of Alberta Indigenous Strategic Plan</i>? How does the program further the objectives or align with the other institutional, Faculty, and College strategies?</p>	<p>The proposed GEC aligns with the following goals of the University of Alberta's Strategic Plan:</p> <p><b><i>EXPERIENCE</i></b> <i>diverse and rewarding learning opportunities that inspire us, nurture our talents, expand our knowledge and skills, and enable our success.</i></p> <p>The School has <i>six epidemiologists and four biostatisticians</i> in our faculty complement. These faculty develop and apply epidemiological and biostatistics methods and analyses to pressing real-world problems, through active collaborations with public health-related organizations and practitioners. Through them, students will have the opportunity to learn how epidemiology and biostatistics is applied to answer a variety of biomedical and public health questions, and to use these skills when interacting with public health professionals during field practicum opportunities.</p> <p>We see the proposed GEC in Epidemiology and Applied Biostatistics as a starting point for continuing education programs and microcredentials, as well as another opportunity for SPH to contribute competencies needed in a range of public health-related programs.</p> <p><b><i>EXCEL</i></b> <i>as individuals, and together, sustain a culture that fosters and champions distinction and distinctiveness in teaching, learning, research, and service.</i></p> <p>The epidemiology and biostatistics faculty have over 160 years combined experience in teaching, learning, research and service in the area of Epidemiology and Biostatistics. The expertise they bring to the GEC in terms of knowledge and resources will ensure that students will acquire in-depth knowledge in Epidemiology and Biostatistics, sound use and practice of statistical methods and software, together with accurate interpretation of results, towards solving pressing public health and biomedical questions.</p> <p><b><i>EQUITY, DIVERSITY AND INCLUSION.</i></b> The epidemiology and biostatistics faculty members have diverse backgrounds and believe in diversity inclusion in the classroom. We work with students and faculty regardless of their race, ethnicity, religion, gender, age, sexual orientation, socioeconomic status, or country of origin. We believe that all students should be given equal opportunity. Our teaching is hands-on, based on real studies and peer reviewed applications. We also recognize our teachings can potentially impact conduct and data analysis for studies involving Indigenous people and communities. We will include examples from studies on Aboriginal population in our course materials.</p>

	<p><b><i>BRAIDING PAST, PRESENT, AND FUTURE.</i></b> The five-year plan is grouped into three categories, or “Strands,” symbolizing Looking to the Past, In-Power the Present, and Imagining the Future. Examples of epidemiological studies that seek to broaden understanding of structural racism by examining the relationships between Indigenous populations in Canada in the context of public health and how this affects Indigenous lives. Furthermore, how structural racism and colonialism in Canada’s historical past continue to affect Indigenous health today. For the future, data projections and studies involving Indigenous populations,, the importance of having accurate, inclusive baseline data will be emphasized, which in turn supports and promotes Indigenous self-determination.</p>
<p><b>Resource Implications</b> Identify the resource implications of the proposed embedded credit certificate.</p>	<p>No reallocation of resources is expected. There will be a modest impact on teaching assignments.</p>
<p><b>Enrolment</b> Outline the expected enrolment for the embedded credit certificate and provide the the rationale and/or evidence this estimate is based on. Also provide any potential impacts on course offerings.</p>	<p>We expect between 30-40 students to enrol in each academic year.</p>
<p><b>Consultation</b> Describe the consultation process that occurred with students and other relevant stakeholders and service units of the University, and the feedback received.</p>	<p>May 2022: Department of Mathematical and Statistical Sciences ap          June 2022: SPH Committee on Educational Policies and Programs          June 20, 2023 : SPH-wide discussion          June 2022: SPH epidemiology and biostatistics professors were consulted via virtual meeting.          July 2022: Student Consultation-The faculty has also consulted current MPH students and recent MPH graduates on developing this Graduate Embedded Certificate (GEC). For example, surveys were administered and focus groups were conducted to gain student insight.          June 2023: Graduate Programs Support Team consultation.          September 2023 - November 2023: SPH Faculty Council Approval          September - November 2023:          Provost's Office programs team consultation (Dr. Janice Causgrove Dunn, Carley Roth, Suzanne French)          Dr. Florence Glanfield (Vice-Provost (Indigenous Programming and Research)) consultation          Dr. Carrie Smith (Vice-Provost (Equity, Diversity, and Inclusion)) consultation</p>
<p><b>Indigenous Perspectives</b> Describe the outcomes of the consultation with the Vice Provost (Indigenous Programming and Research) regarding how the program will integrate/include indigenous perspectives and content, and any action items that may result.</p>	<p><i>Completed consultation with Vice Provost Indigenous Programming and Research in October and early November of 2023. Overall support for the proposal but wanted to see specific examples of how Indigenous Initiatives were woven into the programming. Updates were made to the proposal and approved by the Vice-Provost (Indigenous Programming and Research) Office.</i></p> <p>In epidemiology and biostatistics, there is a need for decolonizing and Indigenizing quantitative research methods, particularly in epidemiology and biostatistics, to better address the public health needs of Indigenous populations who continue to experience health inequities because of colonial systems, as well as inaccurate and incomplete data collection about themselves. For this GEC, students will recognize the limits of Western epidemiological methods. We will also</p>

	<p>stress the importance to incorporate more Indigenous research methodologies and community-based participatory research methods, build capacity by training more Indigenous epidemiologists, and support Indigenous self-determination. Indigenous epidemiologic methods include shifting standards, such as age standardization, according to Indigenous populations to give appropriate weight to their experiences; carefully setting recruitment targets and using appropriate recruiting methods to fulfill statistical standards for stratification; acting as a bridge between Indigenous and Western technoscientific perspectives; developing culturally appropriate methods based on Indigenous knowledge systems.</p> <p>Examples of methods to decolonize and Indigenize quantitative research methods include:</p> <ol style="list-style-type: none"> <li>1) strengths-based approach <ul style="list-style-type: none"> <li>-a decolonized approach to quantitative research is contextual and temporal, meaning it exists within a certain period of time politically, socially, historically, and operationally.</li> <li>-data is then interpreted using a strength-based lens which is ‘consistent with community values and principles’ and supports ‘a more positive story to be told (using the data), without altering statistical rigour.</li> </ul> </li> <li>2) positionality <ul style="list-style-type: none"> <li>-students will be trained to write a positionality ‘disclosure of how a researcher’s racial, gender, class, or other self-identifications, experiences and privileges’ might influence research questions, methods, and interpretation of results. This statement will be used for contextual reflection, inclusion of Indigenous Peoples in respectful and reciprocal ways, and prioritizing Indigenous ways of knowing.</li> </ul> </li> <li>3) community-based participatory research (CBPR) <ul style="list-style-type: none"> <li>-we will emphasize the importance of CBPR in decolonized research because it challenges dominant power structures and relations that traditionally rely on “expert” approaches to generating knowledge to move to power “with” approach which recognizes people’s lived experiences and traditions as knowledge.</li> </ul> </li> <li>4) Indigenous data sovereignty <ul style="list-style-type: none"> <li>We express the importance of Indigenous data sovereignty by teaching the: <ul style="list-style-type: none"> <li>- The Global Indigenous Data Alliance developed CARE-Collective benefit, Authority to control, Responsibility, and Ethics principles.</li> </ul> </li> <li>All these principles are at the core of Indigenous epidemiology as a decolonized quantitative approach to data collection and interpretation that is aligned with Indigenous values and principles.</li> </ul> </li> </ol>
<p><b>-Equity, Diversity and Inclusion Perspectives</b></p> <p>Describe the outcomes of the consultation with the Vice-Provost (Equity, Diversity and Inclusion) regarding how the program will integrate/include EDI perspectives and content, and any action items that may result.</p>	<p><i>Completed consultation with the Vice-Provost (Equity, Diversity and Inclusion) in October and early November of 2023. The GEC proposal aligns well with the EDI goals. Under strategic alignment and EDI, the diversity of faculty members is mentioned as a core EDI feature of the proposal. A stronger articulation of how diversity will impact students, in what ways equity will be addressed and what measures will be taken to ensure students' diverse perspectives are welcomed. The proposal has been edited to include this information below:</i></p> <p>For the GEC in Epidemiology and Applied Biostatistics, a social epidemiologic lens will be applied. Social epidemiology is defined as “the branch of epidemiology that studies the social distribution and social determinants of health.” Descriptive and analytic epidemiologic techniques will be taught to illustrate how social inequities persist across socio-demographic groups such as gender/sex, race/ethnicity, and socioeconomic status, among others. Examples of how prevalence and incidence of disease is disproportionately distributed across socio-</p>

	<p>demographic groups will be emphasized. Students will also gain experience on how epidemiologic and biostatistical methods can be used to assess how public health interventions can increase health equity.</p> <p><i>Emphasizing the social determinants of health and health equity</i> The social determinants of health and health inequities will be presented through methodological and epidemiological examples. For example, by training students to test for effect modification, how epidemiologists test whether associations between exposures of interest and health outcomes vary across socio-demographic groups, such as race, age, gender, and socioeconomic status will be emphasized. Furthermore, students will be taught that interventions can impact different socio-demographic groups differently. For example, how income benefits from the government, such as universal basic income, can benefit the health of individuals from lower socioeconomic groups, which will shrink health inequities, will be presented. Overall, the social determinants of health and health equity will be woven throughout this GEC.</p> <p>All instructors for courses required for this proposed GEC will be strongly encouraged to have completed the UofA equity, diversity and inclusion module. Instructors will also be required to consult with CTL on the available resources and will be required to utilize an EDI lens. Instructors are encouraged to take responsibility to ensure that class discussions are safe and inclusive, embracing diversity of perspectives and identity, and providing students the opportunity to express their views and have them received with respect.</p>
--	---

<b>Appendices</b>	
<b>Appendix A</b> – letters of support from relevant faculty dean(s) and college(s).	Please see attached.
<b>Appendix B</b> – curriculum and program structure. List course names, numbers, and descriptions. Indicate if the courses are new or existing. Include draft content for the University Calendar.	<p>The Graduate Embedded Certificate (GEC) in Epidemiology and Applied Biostatistics will require successful completion of 12 units of coursework.</p> <p><b>Required courses:</b>            SPH 519 Biostatistics I - 3 units            SPH 619 Biostatistics II - 3 units            SPH 596 Epidemiology methods I - 3 units            SPH 696 Epidemiology methods II- 3 units</p> <p>The SPH offers MSc degrees in Clinical Epidemiology and Epidemiology. The proposed GEC retains the Epidemiology and Applied Biostatistics courses required for these two MSc specializations.</p>
<b>Appendix C</b> - other Include any additional information in support of the proposal (if relevant)	<p>This recent article will be incorporated in this GEC:            Hayward Ashley., Wodtke Larissa., Craft Aimee, et. al., Addressing the need for Indigenous and decolonized quantitative research methods in Canada.</p>

Jeffrey Johnson, PhD  
Professor and Interim Dean  
3-300 Edmonton Clinic Health Academy  
Edmonton, AB Canada T6G 1C9  
jeffreyj@ualberta.ca  
780-492-9266  
www.publichealth.ualberta.ca

September 15, 2023

Dear Dr. Epp,

As you know, the School of Public Health (SPH) recently transitioned our Masters of Public Health (MPH) degree from the past offering of seven second-level specializations to an MPH in General Public Health (MPH in GPH). This was implemented this year for the Fall 2023 intake of students. As part of this transition, we had proposed to re-package the previous specializations into a set of Graduate Embedded Certificates (GEC) that still allowed students to have specialized training recognized on their transcripts, in a way that was more student-driven, while also reducing the School's administrative burden for seven different admission processes.

SPH currently offers four GECs – Communicable Diseases, Community-based Research and Evaluation, Climate Change and Health, and Health Economic Evaluation. At this time, we are putting forward a proposal for a new GEC in Epidemiology and Applied Biostatistics. The attached proposal describes the rationale, needs, and benefits associated with the creation of this new GEC as part of the MPH program innovation through the School of Public Health at the University of Alberta. At the same time, this GEC would be available to students in other programs, notably thesis-based students within the College of Health Sciences, who seek a credential recognizing training in this particular area.

The proposed GEC, along with the MPH in GPH will foster a more integrated and interdisciplinary environment, aligning with what is typically required in public health practice and research. This shift aligns with our focus on innovative interdisciplinary competency and practice-driven MPH common core curriculum. Under the new U of A budget model, we also need to maximize revenue generation, which can in part be realized by increasing enrollment and innovative educational programming. This is consistent with our School's strategic and interrelated goals of delivering innovative high quality learning experiences, leading research excellence, promoting organization effectiveness and resiliency, and our mission to advance the public's health by engaging partners in world-leading research, learning and action.

As Interim Dean of SPH, I offer my full support for the approval of this GEC. If you have any questions about the proposal, please do not hesitate to connect with me.

Sincerely,



Jeffrey Johnson, PhD  
Professor and Interim Dean

Kinesiology, Sport & Recreation  
Medicine & Dentistry  
Nursing  
Pharmacy & Pharmaceutical Sciences  
Public Health  
Rehabilitation Medicine

September 19, 2023

Dear FGSR and GFC Councils:

The College of Health Sciences, along with the Health Sciences Faculties, strongly endorse and support the School of Public Health's (SPH) proposed Graduate Embedded Certificate in Epidemiology and Applied Biostatistics. This GEC builds on the internal faculty strengths/expertise as well as the need for knowledge, skills, and competencies in this area.

SPH currently offers four GECs – Communicable Diseases, Community-based Research and Evaluation, Climate Change and Health, and Economic Evaluation. GECs are nimbler and more responsive to current and anticipated public health education landscape and more student driven. This GEC in Epidemiology and Applied Biostatistics will be a welcomed and timely addition to the current academic offerings. As with all GECs, these would be available for graduate students in each of our faculties.

The program innovation through the introduction of GECs in key areas is consistent with the SPH's strategic plan, the institutional commitment *For the Public Good*, and the University of Alberta for Tomorrow.

We strongly support the SPH with GECs which meets the SPH's strategic goals of delivering quality learning experiences, increasing transdisciplinary approaches to addressing complex intersectoral public health challenges, and integrating research and education opportunities.

Sincerely,



Brenda Hemmelgarn MD PhD Dean & Vice-  
Provost, College of Health Sciences  
Dean, Faculty of Medicine & Dentistry



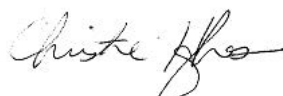
Greta Cummings, PhD, RN, FCAHS, FAAN, FCAN  
Dean & Professor, Faculty of Nursing



Kyra Pyke, PhD  
Dean and Professor  
Faculty of Kinesiology, Sport, and Recreation



Tammy Hopper, PhD, R-SLP, CCC-SLP  
Professor and Dean  
Faculty of Rehabilitation Medicine



Christine Hughes, BSCPharm, PharmD, FCSHP  
Professor and Dean  
Faculty of Pharmacy & Pharmaceutical Sciences





## Library Impact Statement

Faculties seeking changes to existing programs must consider and seek the agreement to any impact of the proposed program changes on the library system and on course enrolments in other academic units. In addition, any new program proposal going forward for approval will require a service impact statement. Where the affected Faculties and/or Library are in agreement this statement will note that fact and details of the arrangement.

Please contact your [subject librarian](#) to solicit feedback on your program proposal and request a Library Impact Statement.

### Library Contact:

Name: Lisa Tjosvold	Date: 15 September 2023
Library Unit: Health Sciences	Email: tjosvold@ualberta.ca

### Program Proposal Contact:

Name: Irina Dinu, Professor	Dept./School: Public Health
Faculty: School of Public Health	E-mail: idinu@ualberta.ca

### Proposed Program Changes:

The Graduate Embedded Certificate (GEC) in Epidemiology and Applied Biostatistics will require successful completion of 12 units of coursework. These required courses are already offered by the School of Public Health:

SPH 519 Biostatistics I - 3 units  
 SPH 619 Biostatistics II - 3 units  
 SPH 596 Epidemiology methods I - 3 units  
 SPH 696 Epidemiology methods II - 3 units


There will be no resource implications for SPH despite an anticipated increase in enrollment of 30-40 students per year.


Library Service or Resource	Description of Library Impact
Instruction (e.g., classes with a librarian, tours, online resource guides, online tutorials, etc.)	<p>Instruction regularly offered in the SPH program may be useful for students in Graduate Embedded Certificate in Epidemiology and Applied Biostatistics.</p> <p>The Library offers a range of <a href="#">workshops</a> throughout the academic year to assist students with their research needs. In addition, <a href="#">online instructional guides</a> and <a href="#">tutorials</a> are accessible via the Library's web site to support the research process. Course/assignment specific instruction is also available via subject librarians. <b>Lisa Tjosvold</b> (<a href="mailto:lisa.tjosvold@ualberta.ca">lisa.tjosvold@ualberta.ca</a>) is the subject librarian for Public Health and has the capacity to support this Program/Certificate.</p>

<p>Reference assistance (e.g., ongoing one-on-one help)</p>	<p>The <a href="#">subject librarian</a> or other librarians in complementary subject areas will be able to accommodate requests for assistance via email, phone, or online.</p> <p>General reference assistance is available at all University of Alberta Library <a href="#">service desks</a> and online via <a href="#">Ask us services</a>.</p>
<p>Collections – course materials, print, electronic [note any impacts on simultaneous users, licensing considerations etc.]</p>	<p>The Library’s current subscriptions to print and electronic journals and books should adequately support this program. Any items that are not available and/or accessible through the Library can be requested through <a href="#">Interlibrary Loan</a>.</p> <p>There are numerous electronic resources that are relevant to this program. Some of the key databases include:</p> <ul style="list-style-type: none"> <li>● Medline</li> <li>● CINAHL</li> <li>● EMBASE</li> <li>● Scopus</li> <li>● Web of Science</li> <li>● Academic Search Complete</li> <li>● &lt;odesi&gt;</li> <li>● OECD iLibrary</li> </ul> <p>The library holds subscriptions to fulltext collections of journals and books that support this program including: EBSCO Academic, Elsevier, Proquest E-book Central, Springer, Taylor and Francis, Wiley, and Wolters Kluwer. Examples of journals include:</p> <ul style="list-style-type: none"> <li>● Biostatistics &amp; Epidemiology</li> <li>● Epidemiology</li> <li>● Statistics in Medicine</li> </ul> <p>Other subject specific <a href="#">databases</a> and resources may be required.</p> <p>The Library also supports <a href="#">course reading list and reserve requests</a> online using the <a href="#">Talis platform</a>.</p> <p>The Library’s <a href="#">Public Health</a>, <a href="#">Health Statistics</a> and <a href="#">Data</a> subject guides will be relevant to students taking specific courses in the Program/Certificate/Course etc.</p>
<p>Collaboration with other UAL library units, if interdisciplinary program (consult with the other UAL units affected and include their comments with yours)</p>	<p>Given the interdisciplinary nature of this program, the following library units have been consulted in the preparation of this impact statement:</p> <p>– Digital Scholarship Centre</p> <p>The <a href="#">Digital Scholarship Centre</a> (DSC) is another library facility that may be of use to those completing this certificate/program. Any student can gain access to the <a href="#">high performance computers</a> and specialised software installed on them in this facility provided the use is tied to a curriculum based project.</p>

Physical facilities (e.g., sufficient room for group work; in-library work, etc.)	Physical facilities are in place to support student research needs. There are bookable group <a href="#">study spaces</a> , as well as collaborative and individual study spaces in all library locations.
Other (specify)	

- X Proposal has an impact on the Library and can be supported.
- Proposal can be supported with additional resources; see attached details.
- Proposal has no impact on the Library.

Unit Head Name	Unit Head Signature	Date
Connie Winther		18 September 2023

Associate University Librarian Name	Associate University Librarian Signature	Date
Sharon Murphy		18 September, 2023



**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:** To seek approval of a new Graduate Embedded Certificate in Global Health Equity.

<b>DATE</b>	January 11, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	School of Public Health

**MOTION:** That the GFC Programs Committee approve, under delegated authority from General Faculties Council, the establishment of the graduate embedded certificate in Global Health Equity, as proposed by the School of Public Health and as set forth in Attachment 1, for implementation upon approval and inclusion in the 2024-2025 University Calendar.

**EXECUTIVE SUMMARY:**

[Background](#)

Ten years ago, the Department of Public Health Sciences introduced MPH degree programs with Global Health specialization, along with several other specializations. Given the introduction of the new MPH in General Public Health degree in Fall 2023 and suspension of admission to the MPH specializations, SPH is developing GECs in strategic areas that will equip graduates with practice-ready methodological, analytical, and technical skills needed in the field of public health and beyond. Graduate students will be able to opt to complete the proposed GEC to complement and enrich their MPH in General Public Health or other University of Alberta degree.

This Graduate Embedded Certificate in Global Health Equity is intended to equip students for careers in public health practice in agencies whose work focuses primarily on countries categorized by the World Bank as low- and middle-income countries (LMICs) and in related areas of globalization and health.

The primary target for this proposed GEC is School of Public Health students in any of the degree programs – the MPH in General Public Health, MACE degree programs, and MSc and PhD public health specializations. It may also be of interest to graduate students in other health sciences programs on campus. The GEC will be of particular relevance for students intending to pursue careers in global health *program work* (rather than primarily research).

[Analysis / Discussion](#)

The SPH is developing Graduate Embedded Certificates as one vehicle for students to complete elective courses. Carefully designed strategic GECs are nimble, integrate research and education, and respond to students’ expressed interest in gaining knowledge and skills in more than one area. With the implementation of the MPH in General Public Health in Fall 2023, the School of Public Health has suspended admission into our current seven second-level

**GOVERNANCE OUTLINE**

specializations. Registration in a GEC does not require an admissions process, is straightforward, and easily tracked. Students complete a short application / registration. The GEC coordinator will approve electives not already on the approved elective options list. The GEC meets SPH GEC criteria. This GEC is novel and does not duplicate those being offered in our peer institutions. The GEC leverages the strengths of our very strong faculty research programs while responding to a known public health and public health education need and anticipating future challenges.

The GEC will be of interest to, and open to, students in the School of Public Health and other graduate students with an interest in allocation of scarce resources to initiatives to improve the health of disadvantaged populations. In addition:

- The GEC does not require ministry approval.
- The GEC will have no budgetary implications – no additional resources are required to deliver this GEC.
- The proposed GEC considers allocation of scarce resources in the context of equity-seeking and Indigenous peoples.
- The architects of this GEC include a group of dynamic young instructors with innovative teaching pedagogy.
- Faculty GEC proponents serve as connectors to potential field practicum placements and research opportunities.
- We expect this GEC to be a foundation for future continuing education

#### [Risk Discussion / Mitigation of the Risk](#)

##### ***Registration and student progress tracking may create the need for additional resources.***

Registration in a GEC does not require an admissions process, is straightforward, and easily tracked. The processes of registration and progress tracking are already worked out and are mostly automated. Students complete a short application / registration google form. The GEC coordinator will approve electives not already on the approved elective options list. Upon completion of the GEC students are required to submit their transcripts to the Office of Education.

##### ***Possible increased teaching load for the Global Health faculty members***

Innovative pedagogy and course delivery methods will be encouraged.

#### [Next Steps](#)

Once approved the GEC will be actively advertised on the School of Public Health website, within the College of Health Sciences and University wide.

Registration forms will become available to all interested students.

#### **Supporting Materials:**

Global Health Equity - GEC Proposal Package

**\*See Schedule A for additional items to include if needed.**



**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

**Approval Route:**

**SPH consultations with students, alumni, practicum preceptors, and faculty** (refer to Rationale section above).

To date:

- we have consulted with SPH faculty with a focus on GH, as well as
- with faculty in the nursing and medical schools, and
- We have solicited input from students currently enrolled in our GH MPH specialization. (Please see Appendix C for additional information on the student and alumni consultations).

April 2023: SPH Committee on Educational Policies and Programs

June 2023: Graduate Programs Support Team consultation.

September 2023 - November 2023: SPH Faculty Council Approval

September - November 2023:

Provost's Office programs team consultation (Dr. Janice Causgrove Dunn, Carley Roth, Suzanne French)

Dr. Florence Glanfield (Vice-Provost (Indigenous Programming and Research)) consultation

Dr. Carrie Smith (Vice-Provost (Equity, Diversity, and Inclusion)) consultation

FGSR Council - December 6, 2023

**Supplementary Notes / Context:**

### Embedded Credit Certificate Template

This template is to be used for proposals for new University of Alberta embedded credit certificates. Embedded credit certificates are taken concurrently with a degree program of the University of Alberta.

Development process: Faculties and Departments must consult with the Portfolio Initiatives Manager in the Office of the Provost and Vice-President (Academic) ([carley.roth@ualberta.ca](mailto:carley.roth@ualberta.ca)) on the appropriate template and process. Graduate proposers must also consult with the Faculty of Graduate Studies and Research ([fsgsrgov@ualberta.ca](mailto:fsgsrgov@ualberta.ca)).

Governance: Embedded credit certificates are reviewed by the relevant Program Support Team (Undergraduate or Graduate), and then approved by the following route: Faculty Council > GFC Programs Committee. In the event that the embedded certificate proposal includes significant resource (space, budget) implications, the proposal may also be sent to the GFC Academic Planning Committee for approval.

1: Basics		
<b>Undergraduate</b> <b>Graduate</b> <input type="checkbox"/>		
<b>Embedded Certificate Name</b>	Global Health Equity	
<b>Faculty/Department</b>	School of Public Health	
<b>Contact information</b>	Name and Title	Stephen Hodgins, Assoc. Prof.
	Phone	+1-780-492-6814
	Email	shodgins@ualberta.ca
<b>Proposed Effective Date</b>	July 1, 2024	
<b>Units of Course Weight</b>	12 units	
<b>Program Synopsis</b> Describe the program. Include curriculum content, target student group, experiential learning opportunities (if applicable).	Global Health (GH) has been defined as: "an area for study, research, and practice that places a priority on improving health and achieving health equity for all people worldwide." Global health is an established field, with a central role for actors within low- and middle-income countries (LMIC), including those based in government, academic institutions, and local NGOs. There is also an important role for global and regional entities, including WHO, UNICEF, international non-governmental organizations (NGOs) and consulting agencies, and funding agencies (notably World Bank and regional development banks, bilateral agencies such as USAID,	

	<p>philanthropies, and global-level funding mechanisms such as the Global Fund and GAVI).</p> <p>This Graduate Embedded Certificate (GEC) in Global Health Equity is intended to equip students for careers in public health practice in agencies, as described above, focusing primarily on countries categorized by the World Bank as LMICs and in related areas of globalization and health (including Indigenous and circumpolar health).</p> <p>The primary target for this proposed GEC is School of Public Health students in any of the degree programs – the MPH in General Public Health, MACE degree programs, and MSc and PhD public health specializations. It may also be of interest to graduate students in other health sciences programs on campus. The GEC will be of particular relevance for students intending to pursue careers in global health program work.</p>
--	---

<b>2: Rationale, Implications, and Impact</b>	
---	--

<p><b>Rationale for Introduction of Certificate</b></p> <p>Identify the purpose of the proposal with supporting rationale and evidence of demand. E.g., consultations with students, wider community that demonstrate demand and/or value.</p>	<p>Global health is an evolving field, with continued attention to areas such as health systems strengthening, infectious disease control, nutrition, maternal-child health, and sexual and reproductive health. There is now increasing attention to non-communicable diseases and health challenges associated with climate change and the environment. Furthermore, with economic development and increasing human capacity within LMICs, the roles of and relationships between within-country actors and development assistance partners are changing. Equity and decolonization, and the imperative to ensure the voices of Indigenous peoples and other historically marginalized groups are attracting increasing attention in this field.</p> <p>For Canada (and Canadians) to contribute effectively in this field there is a need for well-trained professionals having skill sets matching current and future needs. This GEC responds directly to this need.</p> <p>University of Alberta was one of the first institutions in Canada to offer an MPH with a global health specialization, so it has an established set of course offerings in this area as well as in related areas, notably in community engagement / development. The recent implementation of the General MPH in the School of Public Health means that students are no longer entering directly into this specialization, so the GEC provides an alternate approach for students to pursue and achieve a similar credential on their transcripts at the time of graduation.</p>
<p><b>Strategic Alignment</b></p> <p>How does the proposed program align with the strategic goals described in <i>For the Public Good, the University of Alberta's Strategic Plan for Equity, Diversity, and Inclusion, and Braiding Past, Present and Future: University of Alberta Indigenous Strategic</i></p>	<p>The proposed GEC in Global Health Equity aligns with UofA strategic goals outlined in <b>For the Public Good: BUILD a diverse, inclusive community of exceptional students, faculty and staff from Alberta, Canada and the world.</b> Drawing strong students from across Canada and around the world.</p> <p><i>EXPERIENCE diverse and rewarding learning opportunities that inspire us, nurture our talents, expand our knowledge and skills, and enable our success.</i></p> <p>The core faculty for this GEC have particular expertise in global health research and service. The GEC lead has more than 3 decades of experience in global health program</p>



<p><i>Plan?</i> How does the program further the objectives or align with the other institutional, Faculty, and College strategies?</p>	<p>work in Indigenous communities in Canada and in Africa and South Asia, and draws heavily on this experience in his teaching. Other faculty teaching in the program have diverse experience in different regions of the world including South and South-East Asia, Africa, and Latin America. Practicum opportunities are available with diverse organizations engaged in global health.</p> <p><i>EXCEL as individuals and, together, sustain a culture that fosters and champions distinction and distinctiveness in teaching, learning, research, and service.</i> The faculty associated with this GEC are nationally and internationally recognized for expertise in community-based primary health care; gender and health, maternal-child and sexual &amp; reproductive health; vaccine development; program design, development and evaluation; circumpolar health; migration; climate change; and globalization and health.</p>
<p><b>Resource Implications</b> Identify the resource implications of the proposed embedded credit certificate.</p>	<p>No reallocation of resources is expected. There will be a modest impact on teaching assignments for Faculty members as the listed courses would need to be delivered on a regular basis.</p>
<p><b>Enrolment</b> Outline the expected enrolment for the embedded credit certificate and provide the the rationale and/or evidence this estimate is based on. Also provide any potential impacts on course offerings.</p>	<p>We anticipate a high level of interest in this GEC as the MPH Global Health specialization at the School historically had a very high number of applicants. Our target GEC registration in the first year is 15-20 students to start with and then will increase each year based on demand. As we gain experience, at least some of the GEC courses can be configured for remote delivery to accommodate larger numbers. In recent years, we have had between 60 and 85 new students / year in our MPH core courses.</p>
<p><b>Consultation</b> Describe the consultation process that occurred with students and other relevant stakeholders and service units of the University, and the feedback received.</p>	<p><b>SPH consultations with students, alumni, practicum preceptors, and faculty</b> (refer to Rationale section above). To date:</p> <ul style="list-style-type: none"> <li>● we have consulted with SPH faculty with a focus on GH, as well as</li> <li>● with faculty in the nursing and medical schools, and</li> <li>● We have solicited input from students currently enrolled in our GH MPH specialization. (Please see Appendix C for additional information on the student and alumni consultations).</li> </ul> <p>April 2023: SPH Committee on Educational Policies and Programs June 2023: Graduate Programs Support Team consultation. September 2023 - November 2023: SPH Faculty Council Approval September - November 2023: Provost's Office programs team consultation (Dr. Janice Causgrove Dunn, Carley Roth, Suzanne French) Dr. Florence Glanfield (Vice-Provost (Indigenous Programming and Research)) consultation Dr. Carrie Smith (Vice-Provost (Equity, Diversity, and Inclusion)) consultation</p>



**Indigenous Perspectives**

Describe the outcomes of the consultation with the Vice Provost (Indigenous Programming and Research) regarding how the program will integrate/include Indigenous perspectives and content, and any action items that may result.

*Completed consultation with the Vice Provost Indigenous Programming and Research in October and early November 2023. We were required to outline Indigenous content in the core courses.*

**Indigenous content in Core courses**

There are 3 core required courses in this proposed GEC. Below, we provide some detail on Indigenous-related focus in these courses.

SPH 641 3 units Global Health Project Development - this is a project planning course. One important component of the course is stakeholder engagement, informed by a decolonization perspective. This includes codesign with key stakeholders, e.g. community leadership and intended beneficiaries. For this portion of the course we draw on best practices, including in Indigenous communities in Canada and elsewhere. We plan to invite Indigenous leaders and members of LMIC groups who can speak from their experience working with partners not from their communities, on program codesign and management. We intend that this be in the form of pre-recorded mini-lectures and, to the extent feasible, direct engagement in discussion with our students.

SPH 542 3 units Global Health Practice - this is a seminar course, in which the primary modality is student presentations and guided discussions (i.e., not lecture format). Each week addresses a different major theme. In addition there are other major concepts and principles that run as threads through much of the course material and discussion. One of these key threads is sensitivity to context, equity, power relationships, and culture. An important objective of the course is that students acquire an increasingly sound grasp of key principles of decolonization, drawing in part on best practices in Indigenous community engagement, as well as from development practice in LMICs. The students' major assignment for the course is a program case study, for which they are to conduct virtual interviews with key informants directly involved in the programs they are documenting. Programs in Indigenous communities in Canada or elsewhere in the world would certainly be appropriate for this assignment. To the extent feasible, students will be encouraged to have discussions with at least one member of the community substantively involved in the programs they are documenting (through virtual interviews), to ensure they are not relying only on the perspective of non-community member program managers.

SPH 640 3 units - Introduction to Global Health: a survey-type course, mostly delivered by guest lecturers. The course, in its current form, touches on issues of power disparities, community engagement and decolonization. We are planning, however, on expanding this focus, drawing lessons from Canadian Indigenous communities and other historically marginalized populations, including attention to principles enunciated in the UN Declaration on the Rights of Indigenous Peoples. With this change, we plan to add at least one new guest lecturer, either an Indigenous elder or a leader in an LMIC community (to present either in person or virtually, depending on feasibility), who can offer a first-hand perspective to help our students better understand what is required for

	<p>respectful, responsive allyship, spanning cultures and types of organizations involved in developing and delivering programs.</p> <p>There are important historical parallels, in how public health programs have been developed and delivered, between LMICs and Indigenous communities in Canada. Both have experienced asymmetrical power relationships, with decisions supposedly made on behalf of program “beneficiaries” but failing to acknowledge their agency and voice. In both settings, there are now serious efforts aimed at decolonization. The curriculum of the proposed GEC will draw explicit attention to these parallels, offering opportunities for cross-learning. Based on our experience with our former MPH specialization, we anticipate that at least some graduates of this GEC will have careers working both with Indigenous Canadian populations and in LMICs.</p>
<p><b>Equity, Diversity and Inclusion Perspectives</b></p> <p>Describe the outcomes of the consultation with the Vice-Provost (Equity, Diversity and Inclusion) regarding how the program will integrate/include EDI perspectives and content, and any action items that may result.</p>	<p><i>Completed consultation with the Vice-Provost Equity, Diversity and Inclusion in October and early November of 2023. The provided feedback indicates that this GEC is strongly supported and urgently needed. The EDI goals (listed below) are well articulated. Required additional information on how the EDI goals would be carried out. This information has been included in the EDI goals below.</i></p> <p>The proposed GEC in Global Health Equity aligns with themes in UofA’s Strategic Plan for Equity, Diversity &amp; Inclusion:</p> <p><i>Research, Teaching, and Public Service:</i> The courses comprising this GEC are intended to equip graduates for careers focused on respectful partnership with marginalized and disadvantaged communities and populations, particularly in LMICs, to achieve improved health and well-being. All instructors for courses required for this proposed GEC will be expected to have completed the UofA equity, diversity and inclusion module.</p> <p>Courses in this GEC entail a significant class discussion component, including student presentations. Instructors will take responsibility to ensure that such discussions are safe and inclusive, embracing diversity of perspectives and identity, and providing students the opportunity to express their views and have them received with respect.</p> <p><i>Students, Trainees, and Student Life:</i> Courses offered under this GEC will be accessible to students on campus and remotely, to the extent feasible, following the SPH’s strategic goal of increasing accessibility to our programs.</p> <p>Our first priority is to give SPH students the opportunity to complete the GEC to augment their degree programs or fulfill elective requirements. For example, students in the MPH in General Public Health will require 45 units of coursework, comprising 30 units of required and 15 units of elective courses. The GEC in Global Health Equity comprises 12*.</p> <p>With its global focus, the proposed GEC is consistent with the SPH Strategic Plan, which specifies that we are to “deliver innovative high quality learning experiences, ... to provide <i>globally</i> relevant, high quality and accessible interdisciplinary learning experiences for diverse students, who become knowledgeable and skillful leaders to contribute to ethically-grounded public health research and practice in Canada and <i>globally</i>.”</p>

<b>Appendices</b>	
Appendix A – letters of support from relevant faculty dean(s) and college(s).	Please see attached.
<p><b>Appendix B</b> – curriculum and program structure. List course names, numbers, and descriptions. Indicate if the courses are new or existing. Include draft content for the University Calendar.</p>	<p><b>Overarching purpose of the GEC:</b> To prepare students for careers in global health practice, particularly focused on low- and middle-income countries.</p> <p><b>Key learning objectives &amp; competencies:</b> graduates of this GEC will have the knowledge and competencies needed to contribute to:</p> <ol style="list-style-type: none"> <li>1. Building partnerships,</li> <li>2. Designing and developing programs,</li> <li>3. Developing and advocating for policies and guidelines,</li> <li>4. Monitoring, evaluation and learning,</li> <li>5. Conducting applied research, and</li> <li>6. Other key functions within the global health field.</li> </ol> <p><b>Configuration</b></p> <p>1) SPH 641 3 units Global Health Project Development</p> <p><u>Competencies:</u></p> <ol style="list-style-type: none"> <li>1. Understanding of the role of project development within global development.</li> <li>2. Critical thinking and analytic skills, drawing upon evidence to develop solutions.</li> <li>3. Mastery of logical frame planning approach in planning &amp; designing health interventions, including:               <ul style="list-style-type: none"> <li>• Problem analysis</li> <li>• Stakeholder engagement</li> <li>• Objectives analysis</li> <li>• Development of a logical framework matrix</li> <li>• Development of management structures and budget.</li> <li>• Ensuring gender equity and environmental impact.</li> </ul> </li> <li>4. Skill in developing project proposals.</li> </ol> <p>2) SPH 542 3 units Global Health Practice (currently titled, "Problem-Solving in Global Health Practice")</p> <p><u>Competencies:</u></p> <ol style="list-style-type: none"> <li>1. Sensitivity to context, equity, power, and culture</li> <li>2. Problem-characterization / analysis related to issues in health program development and delivery</li> <li>3. Use of causal thinking in public health problem-solving, in program theory/ program development, program performance improvement and evaluation</li> <li>4. Critical, resourceful use of online resources relevant to global health</li> <li>5. Case-study methodology (both analytic and communication skills)</li> <li>6. Effective presenting, including use of visual materials</li> </ol> <p>3) SPH 640 3 units Introduction to Global Health: this survey-type overview course will be revised, adding material on globalization and other topics.</p>

	<p>4) One of the following 3 evaluation-related courses:</p> <ul style="list-style-type: none"> <li>a) SPH 563 3 units Evaluation in Public Health Practice OR</li> <li>b) MACE 552 3 units Evaluation in the Community Context; OR</li> <li>c) SPH 697 3 units Epidemiology and Control of Infectious Diseases (note that there is a prerequisite for this course, SPH 596)</li> </ul>
<p><b>Appendix C - other</b> Include any additional information in support of the proposal (if relevant)</p>	<p><b>Responsiveness to GEC criteria</b> <b>Innovative and competitive niche</b> This GEC builds on an established program at the School, one that has commonly received the most applications, including from international students. It also draws on strengths at the School in community engagement. It responds to a continuing need for graduates ready to assume early and mid-career positions in agencies involved in global health work in Canada, in LMICs, and in global organizational headquarters. Graduates of this GEC will have the knowledge and competencies needed to assume managerial and technical roles within agencies working in global health, in Canada, within LMICs, and at global and regional level.</p> <p><b>Builds on SPH strengths</b> The School of Public Health has been offering a similar program as an MPH specialization. Several faculty members at the School are engaged in research and service in this and other closely related areas, including: Drs. Hodgins, Mumtaz, Yannow, Spitzer, Onyango, and Harper. We are also able to draw on such expertise from faculty with primary appointments in other academic units within the College of Health Sciences.</p> <p><b>Builds on but does not duplicate core or required degree curricula</b> The MPH in General Public Health courses provide a strong base in professional competencies required in public health practice, relevant in both domestic and international contexts. This GEC builds on these foundational competencies, expanding knowledge and skills specifically required for program work in global health, particularly in LMIC settings.</p> <p><b>Addresses the student experience</b> The MPH in General Public Health offered to incoming students up to 2022-23 required an immersive field practice experience. Similarly, there may be opportunities for students in a future GEC in Global Health to complete field practicum placements in global health-related organizations such as UN-related agencies, funding agencies, local NGOs in LMICs, and in donor-funded health projects based in LMICs and implemented by international NGOs. The School will draw on its rich network of such agencies that have, in past, offered practicum opportunities to our MPH students under our former global health specialization. Furthermore, the Global Health faculty have established working relationships with numerous such organizations and will assist in identifying suitable practicum opportunities for interested students.</p> <p><b>Extends SPH reach to increase accessibility &amp; enrollment</b> As noted, the specialization that this GEC replaces has typically garnered the largest number of applications, when we were offering specialized MPH programs. This GEC will be of interest to SPH students and to students in other UA faculties.</p>

**Creative configuration or potential for future creative configuration for continuing professional education**

Consideration is being given to how the courses comprising this GEC can be configured, in the future, for continuing professional education or micro-credentials.

- Consultations with SPH Student Associations (SPHSA) took place in 2019 and 2021. Students, representing MPH, MSc and PhD programs (including MACE) and all specializations, suggested strong support for GECs in general.
- In March 2021, all SPH students and alumni were surveyed about the concept of and possible foci of future GECs. MPH field practicum preceptors who had hosted MPH students in the past five years were also surveyed to gauge their opinions. Between 70 and 75% of respondents supported the concept of GECs in general.
- In June 2021, the SPH completed a report of consultations and survey analyses regarding future educational initiatives.
- A faculty survey related to SPH education initiatives, including GECs, also indicated a high level of support for GECs
- Former students noted the need for practical technical skills in our curriculum, including: program design and evaluation, policy assessment and adaptation, and analytic skills / applied research methods. Common areas of interest: public health and healthcare system improvement, including health system financing, policymaking, health information systems, communications and knowledge translation, project planning and management. These areas are being given increased attention in the core MPH curriculum. We plan to include additional such material, as relevant in LMICs, in the GHE GEC curriculum.

Jeffrey Johnson, PhD  
Professor and Interim Dean  
3-300 Edmonton Clinic Health Academy  
Edmonton, AB Canada T6G 1C9  
jeffreyj@ualberta.ca  
780-492-9266  
www.publichealth.ualberta.ca

September 15, 2023

Dear Dr. Epp,

As you know, the School of Public Health (SPH) recently transitioned our Masters of Public Health (MPH) degree from the past offering of seven second-level specializations to an MPH in General Public Health (MPH in GPH). This was implemented this year for the Fall 2023 intake of students. As part of this transition, we had proposed to re-package the previous specializations into a set of Graduate Embedded Certificates (GEC) that still allowed students to have specialized training recognized on their transcripts, in a way that was more student-driven, while also reducing the School's administrative burden for seven different admission processes.

SPH currently offers four GECs – Communicable Diseases, Community-based Research and Evaluation, Climate Change and Health, and Health Economic Evaluation. At this time, we are putting forward a proposal for a new GEC in Global Health Equity. The attached proposal describes the rationale, needs, and benefits associated with the creation of this new GEC as part of the MPH program innovation through the School of Public Health at the University of Alberta. At the same time, this GEC would be available to students in other programs, notably thesis-based students within the College of Health Sciences, who seek a credential recognizing training in this particular area.

The proposed GEC, along with the MPH in GPH will foster a more integrated and interdisciplinary environment, aligning with what is typically required in public health practice and research. This shift aligns with our focus on innovative interdisciplinary competency and practice-driven MPH common core curriculum. Under the new U of A budget model, we also need to maximize revenue generation, which can in part be realized by increasing enrollment and innovative educational programming. This is consistent with our School's strategic and interrelated goals of delivering innovative high quality learning experiences, leading research excellence, promoting organization effectiveness and resiliency, and our mission to advance the public's health by engaging partners in world-leading research, learning and action.

As Interim Dean of SPH, I offer my full support for the approval of this GEC. If you have any questions about the proposal, please do not hesitate to connect with me.

Sincerely,



Jeffrey Johnson, PhD  
Professor and Interim Dean

Kinesiology, Sport & Recreation  
Medicine & Dentistry  
Nursing  
Pharmacy & Pharmaceutical Sciences  
Public Health  
Rehabilitation Medicine

September 15, 2023

Dear FGSR and GFC Councils:

The College of Health Sciences, along with the Health Sciences Faculties, strongly endorse and support the School of Public Health's (SPH) proposed Graduate Embedded Certificate in Global Health Equity. This GEC builds on the internal faculty strengths/expertise as well as the need for knowledge, skills, and competencies in this area.

SPH currently offers four GECs – Communicable Diseases, Community-based Research and Evaluation, Climate Change and Health, and Economic Evaluation. GECs are nimble and more responsive to current and anticipated public health education landscape and more student driven. This GEC in Global Health Equity will be a welcomed and timely addition to the current academic offerings. As with all GECs, these would be available for graduate students in each of our faculties.

The program innovation through the introduction of GECs in key areas is consistent with the SPH's strategic plan, the institutional commitment *For the Public Good*, and the University of Alberta for Tomorrow.

We strongly support the SPH with GECs which meets the SPH's strategic goals of delivering quality learning experiences, increasing transdisciplinary approaches to addressing complex intersectoral public health challenges, and integrating research and education opportunities.

Sincerely,



Brenda Hemmelgarn MD PhD Dean & Vice-  
Provost, College of Health Sciences  
Dean, Faculty of Medicine & Dentistry



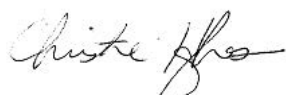
Greta Cummings, PhD, RN, FCAHS, FAAN, FCAN  
Dean & Professor, Faculty of Nursing



Kyra Pyke, PhD  
Dean and Professor  
Faculty of Kinesiology, Sport, and Recreation



Tammy Hopper, PhD, R-SLP, CCC-SLP  
Professor and Dean  
Faculty of Rehabilitation Medicine



Christine Hughes, BSCPharm, PharmD, FCSHP  
Professor and Dean  
Faculty of Pharmacy & Pharmaceutical Sciences



## Library Impact Statement

Faculties seeking changes to existing programs must consider and seek the agreement to any impact of the proposed program changes on the library system and on course enrolments in other academic units. In addition, any new program proposal going forward for approval will require a service impact statement. Where the affected Faculties and/or Library are in agreement this statement will note that fact and details of the arrangement.

Please contact your [subject librarian](#) to solicit feedback on your program proposal and request a Library Impact Statement.

### Library Contact:

Name: Lisa Tjosvold	Date: 15 September 2023
Library Unit: Health Sciences	Email: tjosvold@ualberta.ca

### Program Proposal Contact:

Name: Stephen Hodgins, Assoc. Prof.	Dept./School: Public Health
Faculty: School of Public Health	E-mail: shodgins@ualberta.ca

### Proposed Program Changes:

New **Embedded Credit Certificate (GEC) in Global Health Equity** is to begin September 2023.

The overarching purpose of this GEC will be to prepare students for careers in global health practice, particularly focused on low- and middle-income countries.


This GEC in Global Health Equity will comprise 12 units including one revised course (SPH 640 Introduction to Global Health) and one new evaluation-related course (SPH 563 Evaluation in Public Health Practice) to be delivered in Winter 2024.


There is an anticipated increase in enrollment of 15-20 students per year. No reallocation of resources is expected within the School of Public Health and there will be a modest impact on teaching assignments.

Library Service or Resource	Description of Library Impact
Instruction (e.g., classes with a librarian, tours, online resource guides, online tutorials, etc.)	<p>Instruction regularly offered in the SPH program may be useful for students in <b>Graduate Embedded Certificate in Global Health Equity</b>.</p> <p>The Library offers a range of <a href="#">workshops</a> throughout the academic year to assist students with their research needs. In addition, <a href="#">online instructional guides</a> and <a href="#">tutorials</a> are accessible via the Library's web site to support the research process. Course/assignment specific instruction is also available via subject librarians. <b>Lisa Tjosvold</b> (<a href="mailto:lisa.tjosvold@ualberta.ca">lisa.tjosvold@ualberta.ca</a>) is the subject librarian for the School of Public Health and has the capacity to support this Program/Certificate.</p>

Reference assistance (e.g., ongoing one-on-one help)	<p>The <a href="#">subject librarian</a> or other librarians in complementary subject areas will be able to accommodate requests for assistance via email, phone, or online.</p> <p>General reference assistance is available at all University of Alberta Library <a href="#">service desks</a> and online via <a href="#">Ask us services</a>.</p>
Collections – course materials, print, electronic [note any impacts on simultaneous users, licensing considerations etc.]	<p>The Library’s current subscriptions to print and electronic journals and books should adequately support this program. Any items that are not available and/or accessible through the Library can be requested through <a href="#">Interlibrary Loan</a>.</p> <p>There are numerous electronic resources that are relevant to this program.</p> <p>Key Databases:</p> <ul style="list-style-type: none"> <li>● Medline</li> <li>● CINAHL</li> <li>● Cochrane Library</li> <li>● Global Health</li> <li>● Scopus</li> <li>● Web of Science</li> <li>● Academic Search Complete</li> </ul> <p>The library holds subscriptions to fulltext collections of journals and books that support this program including: EBSCO Academic, Elsevier Springer, Taylor and Francis. Examples of journals include:</p> <ul style="list-style-type: none"> <li>● Global Health</li> <li>● Global Health Journal</li> <li>● Lancet Global Health</li> </ul> <p>Other subject specific <a href="#">databases</a> and resources may be required.</p> <p>The Library also supports <a href="#">course reading list and reserve requests</a> online using the <a href="#">Talis platform</a>.</p> <p>The Library’s <a href="#">Public Health</a> Subject Guide will be relevant to students taking specific courses in the Program/Certificate/Course etc.</p>
Physical facilities (e.g., sufficient room for group work; in-library work, etc.)	Physical facilities are in place to support student research needs. There are bookable group <a href="#">study spaces</a> , as well as collaborative and individual study spaces in all library locations.
Other (specify)	

- X Proposal has an impact on the Library and can be supported.
- Proposal can be supported with additional resources; see attached details.
- Proposal has no impact on the Library.

Unit Head Name	Unit Head Signature	Date
Connie Winther		18 September 2023

Associate University Librarian Name	Associate University Librarian Signature	Date
Sharon Murphy		19 September, 2023

Decision  Discussion  Information

**ITEM OBJECTIVE:** Approve the “AI Everywhere Certificate” embedded certificate for fall 2024

<b>DATE</b>	January 11th, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Computing Science

**MOTION:** That the GFC Programs Committee approve, under delegated authority from General Faculties Council, the establishment of the undergraduate embedded certificate Artificial Intelligence Everywhere, as proposed by the Department of Computing Science and as set forth in Attachment 1, to take effect for Fall 2024.

---

### Background

The Artificial Intelligence Everywhere (AI Everywhere) certificate is a five-course learning opportunity available to all undergraduate students. Created by Computing Science, the certificate’s objective to create AI literacy across disciplines, will provide a foundational comprehension of AI. In addition, a major goal of the introductory course (AI Everywhere) and the certificate is to expose students to the broad reach of AI and Machine learning (ML) across the humanities, sciences, and engineering. All students will be required to take the AI Everywhere introductory course and three other courses that will take them through deep dives in AI’s impact and opportunities in specific domains. The certificate will finish off with a capstone course featuring hands-on experience on a term-long project exploring AI in a concrete application area described below.

The AI Everywhere Certificate will be accessible to students in all faculties.

### Analysis / Discussion

The U of A has ranked in the top three globally in artificial intelligence and machine learning research over the last 25 years. However, UofA’s strength in fundamental AI research and teaching of advanced, technical AI topics misses a broader opportunity. Many students outside Computing Science—even outside STEM—are interested in learning more about AI: hoping to understand how (1) the technology works, (2) to evaluate inflated expectations, (3) to identify the risks, and perhaps most importantly, (4) to decide how AI fits into their future studies and career path.

The next step in expanding AI teaching is the non-technical AI Everywhere certificate. The AI Everywhere course provides a nice entry point to many different learning paths. Every year, faculties introduce more AI related content in their courses (see a nice list [here](#)). Courses such as Cognitive Science in Psychology, Philosophy of Mind, Data Analysis in Forestry and

---

### **GOVERNANCE OUTLINE**



---

**ITEM NO. 10**

Agriculture, and Precision Health, highlight the cross disciplinary reach and relevance of AI in other fields of study. The purpose of this AI Everywhere Certificate is to provide an educational pathway for students to gain a basic understanding of AI starting with the AI Everywhere course and then combine it with applications of AI across several different subjects.

Risk Discussion / Mitigation of the Risk

There are a few risks to consider (with mitigations under each item):

1. there will not be enough courses with significant AI content offered yearly to support the certificate.  
**Mitigation:** the current certificate proposal identified enough courses currently. Going forward a steering committee will approve adding and removing courses as needed. Interest in AI across faculties is expected to grow with time.
2. there will not be enough interest from students to support the certificate.  
**Mitigation:** current winter offering of 161 has 120 enrolled as this is expected to grow significantly with a fall offering. Over 70% of those enrolled in 161 who participated in a survey indicated they would like to take this proposed certificate
3. course offerings would not reflect a broad diversity of topics (with significant AI content) and would thus fail to provide learning opportunities that do not look like “more of the same technical AI content”.  
**Mitigation:** Dr White, Dr Wong, and Jessica Butts Scott consulted broadly with numerous faculty across campus, ensuring broad AI offerings going forward. This winter 161 will feature guest lectures on AI and Indigenous Issues (Jason Lewis), Precision Health (Ross Mitchell), AI and Astrophysics (Abigail Azari), Precision Agriculture (Glen Uhrig), AI in Education (Carrie Demmans Epp), and AI and Ethics (Dr Geoffrey Rockwell). The steering committee will ensure Diverse, Inclusive and Equitable program offerings going forward.

Next Steps

The steps are as follows:

1. form a steering committee to manage adding and removing courses from the certificate (April 2024, notify PST)
2. Develop Certificate Capstone course, INT-D 461, (starting Spring 2024, lead by Dr Geoffrey Rockwell)
3. Broadly advertise the launch of the certificate to students in the current offering of 161 and students across campus with the help of AVP, Online & CPE, Online & Continuing Education and Alberta Machine Intelligence Inst.

**Supporting Materials:**

1. AI Everywhere Embedded Credit Certificate\_1.pdf (**for Approval**)
2. AI Everywhere - New Calendar Page\_2.pdf (**for Approval**)
3. Amii Support Letter\_3.pdf
4. Feedback on Proposed AI Everywhere Certificate\_4.pdf
5. AI Everywhere - New Course INT D 461\_5.pdf (**for Approval**)



**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

**Those who are actively participating:**

- Departmental curriculum committees, Faculty of Science; various meetings in 2023
- Department of Computing Science Council
- AI faculty in computing science ( including multiple meetings with Rob Holte, Randy Goebel, Russ Greiner, Alona Fyshe, Martha White)
- Goeffery Rockwell (advised on humanities and arts perspectives)
- Associate Chairs (undergraduate), Faculty of Science; various meetings in 2023
- Academic advisors, Faculty of Science; various meetings in 2023
- Alberta Machine Intelligence Institute; industry partner with regular meetings in 2022 and 2023
- Online Learning & Continuing Education division; regular meetings in 2022 and 2023

**Those who have been consulted:**

- Faculty of Engineering
- Jennifer Welchman (consulted on Philosophy courses included)
- Irene Sywenky (consulted on Comparative Literature course included)
- Linglong Kong and Bei Jiang (statistics)
- Ashwin K. Iyer (ECE, Associate Dean, Undergraduate) - ongoing
- Undergraduate students enrolled in INT-D 161 (Winter 2024)
- Provost’s Office (Vice-Provost, Programs); various meetings between 2022 and 2023
- Carrie Smith, Vice-Provost (Equity, Diversity & Inclusion)
- Florence Glanfield (Vice-Provost, Indigenous Programming and Research)
- Gerda de Vries Associate Dean, Undergraduate
- Jocelyn Hall Associate Dean, Undergraduate

**Those who have been informed:**

- Bill Flanagan (President and Vice-chancellor)

**Approval Route:**



---

**ITEM NO. 10**

Department of Computing Science Council (approval obtained November 30, 2023)

Science Undergraduate Programs Committee on the delegated authority of the Science Faculty Council (approval obtained November 30, 2023)

Programs Support Team (December 14, 2023)

GFC Programs Committee (January 11, 2024)

**Supplementary Notes / Context:**

### Embedded Credit Certificate Template

This template is to be used for proposals for new University of Alberta embedded credit certificates. Embedded credit certificates are taken concurrently with a degree program of the University of Alberta.

Development process: Faculties and Departments must consult with the Portfolio Initiatives Manager in the Office of the Provost and Vice-President (Academic) ([carley.roth@ualberta.ca](mailto:carley.roth@ualberta.ca)) on the appropriate template and process. Graduate proposers must also consult with the Faculty of Graduate Studies and Research ([fgsgov@ualberta.ca](mailto:fgsgov@ualberta.ca)).

Governance: Embedded credit certificates are reviewed by the relevant Program Support Team (Undergraduate or Graduate), and then approved by the following route: Faculty Council > GFC Programs Committee. In the event that the embedded certificate proposal includes significant resource (space, budget) implications, the proposal may also be sent to the GFC Academic Planning Committee for approval.

1: Basics		
<u>Undergraduate</u> Graduate		
<b>Embedded Certificate Name</b>	AI Everywhere	
<b>Faculty/Department</b>	Faculty of Science - Department of Computing Science	
<b>Contact information</b>	Name and Title	Adam White, Assistant Professor
	Phone	780-908-5499
	Email	amw8@ualberta.ca
<b>Proposed Effective Date</b>	Fall 2024	
<b>Units of Course Weight</b>	<p>A total of 15 units that span the Faculty of Science, Faculty of Native Studies, Faculty of Arts, Faculty of Engineering, School of Business.</p> <p>The certificate is open to students in all faculties, however, students cannot obtain both this certificate and the Bachelor of Science (Major and Honors) in Computing Science - Artificial Intelligence Option.</p> <p>There are no admission requirements.</p>	





	<p><b>Certificate structure</b> (detailed outline in appendix)</p> <ol style="list-style-type: none"> <li>1. <b>AI Everywhere course</b>, INT D 161 (3 units)</li> <li>2. <b>Choose TWO</b> (6 units) from courses in the following areas (courses that include a significant AI/ML theme or module)             <ol style="list-style-type: none"> <li>a. CMPUT 191, 195, 261, 267, 365, 366</li> <li>b. ECE 442, 447, 449</li> <li>c. STAT 276, 413, 441</li> <li>d. PSYCH 258, 275</li> <li>e. PHIL 205, 365</li> <li>f. C LIT 210</li> <li>g. HIST 115</li> <li>h. STS 200</li> <li>i. MST 351</li> </ol> </li> <li>3. <b>Choose one</b> from ethics grouping (3 units)             <ol style="list-style-type: none"> <li>a. PHIL 250 - Contemporary Ethical Issues</li> <li>b. PHIL 366 - Computers and Culture</li> <li>c. PHIL 385 - Ethics and Artificial Intelligence (Topics in Practical Ethics)</li> <li>d. NS 115 - Indigenous Peoples and Technoscience</li> <li>e. CMPUT 200 - Ethics of Data Science and Artificial Intelligence</li> <li>f. CMPUT 300 - Computers and Society</li> </ol> </li> <li>4. AI Everywhere capstone, INT D 461 (3 units): in-class and MOOC versions <b>To be developed later</b> <ol style="list-style-type: none"> <li>a. <i>Prerequisites:</i> INT D 161 and one of PHIL 250, PHIL 366, PHIL 385, NS 115, CMPUT 200, CMPUT 300</li> </ol> </li> </ol>
<p><b>Program Synopsis</b> Describe the program. Include curriculum content, target student group, experiential learning opportunities (if applicable).</p>	<p><b>Description</b></p> <p>The Artificial Intelligence (AI) certificate is a five-course learning opportunity available to all undergraduate students. The certificate’s objective to create AI literacy across disciplines, will provide a foundational comprehension of AI. In addition, a major goal of the introductory course (AI Everywhere) and the certificate is to expose students to the broad reach of AI and Machine learning (ML) across the humanities, sciences, and engineering. All students will be required to take the AI Everywhere introductory course and three other courses that will take them through deep dives in AI’s impact and opportunities in specific domains. The certificate will finish off with a capstone course featuring hands-on experience on a term-long project exploring AI in a concrete application area described below.</p> <p>The AI Everywhere Certificate will be accessible to students in all faculties. At its core lies:</p>



- i) an introductory course in Artificial Intelligence (INT D 161),
- ii) two courses that include a significant AI/ML theme or module (listed above)
- iii) an ethics requirement, which can be satisfied by CMPUT 200, PHIL 250, PHIL 366, PHIL 385, NS 115, and
- iv) a capstone project course (to be developed).

**Target Student Group**

The AI Everywhere is available to the entire university community, including students enrolled in any bachelor degree program in any University of Alberta faculty. Like the intro course, this certificate is designed for students across campus embracing the multidisciplinary reach of AI in our society.

- *No admission requirements*

**Prerequisites:** There are no prerequisites to pursue the certificate, although individual courses may have departmental prerequisites. The number of incoming students may be limited by qualifications, by maximum yearly intake, or by classroom enrollment limitation restrictions (for specific courses). Students are not guaranteed space in any specific course, except for the introductory course and the MOOC version of the capstone project. The long run plan is to have a fully online path through the certificate that would allow essentially unbounded scaling with low resource commitment from the university.

**Sample paths through the certificate**

There are many possible paths through the certificate. For example, one path suitable for humanities students (with almost no prerequisites along the way) would be:

INT D 161, PHIL 205, C LIT 210, PHIL 366, INT D 461

(satisfying the requirement for 6 units of 300 and 400 level courses)

Another path more appropriate for a computing science or engineering student:

INT D 161, CMPUT 267\*, CMPUT 365, NS 115, INT D 461

\*(CMPUT 267 has several pre- and co-requisites, but 365 only requires 267)

Finally, a more mixed path through the certificate might look like:

INT D 161, CMPUT 191, ECE 447\*, PHIL 385, INT D 461

\*(ECE 447 has two prerequisites)

**Curriculum Content**

There are essentially no courses with significant AI content that do not depend on a sequence of prerequisites, making a traditional embedded certificate



difficult. A successful certificate needs several such courses at the intro and senior level, and even if a few existed it would be problematic if hundreds of students flooded these courses once the certificate became popular.

The AI certificate has the students starting from the same entry point—AI Everywhere—then each student will take a personalized path through a broad pool of AI related courses, then join back up at the end in a capstone course where students with diverse backgrounds will have the opportunity to work in teams to build an AI-powered solution to a problem. This vision is inspired by the very successful Games certificate where students from philosophy, business, literature, and the like, work with computing science students to build a game; merging their diverse skills and learning how to work on diverse teams.

The certificate is based on the idea of multiple pathways. For example, a Psychology major might start with AI Everywhere, then two Psyc courses (e.g., Cognitive Psychology and Brain and Behavior), an ethics course and then finish with the AI Everywhere capstone. A more technically minded student, like a CS major, might follow AI Everywhere with CMPUT 191 & 195. A humanities major might follow AI Everywhere with C LIT 210 and HIST 115 as their path through the certificate. Students can decide how technical their AI certificate is through the choice of options; the optional courses represent how AI is indeed everywhere across the humanities and sciences.

This structure makes the certificate easy to run and maintain, allowing some courses to drop out of the option list. The certificate can easily scale to huge numbers of students. The intent is to continually add new courses to the options as AI spreads further and deeper across faculties. Another practical benefit of this certificate structure is that we can add courses as options without the obstacle of prerequisites.

This certificate is designed for students across campus. This vision culminates in the capstone course where these students' diverse pathways (knowledge, skills, and interests acquired along the way) are brought back together to solve a problem in groups.

**Learning Outcomes**

At a high level, the learning outcomes are to provide a solid technical or non-technical foundation in AI literacy. In particular:

1. countering popular notions in the media about AI

	<ol style="list-style-type: none"> <li>2. Can give a <i>definition</i> of intelligence, but also <i>describe</i> why giving such a definition is difficult.</li> <li>3. <i>identify</i> if AI is part of that system, given a description of the system (e.g. calculator, radio, google maps). <i>Identify</i> how AI might be used as part of that system</li> <li>4. <i>identify</i> risks associated with AI systems whose goals are not understood, nor well aligned with humans</li> <li>5. <i>recognize</i> that computer programs are a way of combining (1) our expert human knowledge and (2) data to make computers do useful things</li> <li>6. <i>describe</i> the key components of a machine learning system</li> <li>7. <i>describe</i> what it means to train and test a machine learning model, and how to evaluate if a model is working.</li> <li>8. insight into how AI and ML are used in other disciplines</li> <li>9. Hands on experience developing an AI or ML solution to a real-world problem on a diverse team in the Capstone course</li> </ol> <p><b>Future Employment:</b> The AI certificate represents a proactive approach to bridge the AI skills gap and empower U of A students with a competitive edge in an evolving job market. According to a recent survey, 52% of recent graduates say the growth of AI makes them question how prepared they are for the workforce. There is a direct correlation between the evolution of the modern workforce and the growing prevalence of AI — increasing the demand for AI expertise and AI-literate professionals across all sectors from healthcare to marketing, finance to education, and beyond.</p>
--	--

<b>2: Rationale, Implications, and Impact</b>	
<p><b>Rationale for Introduction of Certificate</b></p> <p>Identify the purpose of the proposal with supporting rationale and evidence of demand. E.g., consultations with students, wider community that demonstrate demand and/or value.</p>	<p>The University of Alberta is home to the oldest and one of the largest computing science departments in Canada, with an international reputation for contributing to both the foundations and applications of computing. The U of A's commitment to AI education has the U of A harnessing data to make new strides in almost every field - including finance, agriculture, health and beyond. The U of A has ranked in the top three globally in artificial intelligence and machine learning research over the last 25 years.</p> <p>Artificial Intelligence (AI) and Machine Learning (ML) are becoming ubiquitous in our daily lives. More and more consumer products utilize real-time data collection and cloud processing to adapt to users. Autonomous cars have driven millions of miles without collision in California and other temperate climates. Chatbots based on massive models trained on large portions of the</p>

internet and giving rise to serious questions about consciousness, potential harms, and regulating future AI deployments and research. A casual observer of the media would not be wrong to assume things have changed overnight and new uses of AI are just around the corner that could have profound impacts on our economy and society.

Naturally, the truth is: while there have been advances in certain application domains, fundamental challenges remain that will prevent wide-scale deployment of AI technologies. Nevertheless, it is now time to consider the social, ethical, and economic implications of AI. Equally important, AI and ML are having an impact today in traditional industries like construction, and across the sciences (e.g., using machine learning techniques to build models of the induced magnetosphere of Mars). It is critical that students be given the opportunity to learn about the potential and pitfalls of future AI developments at a societal level, and in terms of their own future career paths!

The University of Alberta has long been a leader in providing courses to help train experts in AI and ML, at both the undergraduate and graduate level. The University of Alberta has the oldest Computing Science department in Canada and many of the founding members of the department were AI researchers. The department created the Alberta Machine Intelligence Institute (aka Amii) in 2002 to support fundamental research in machine learning. Amii has now grown to over 35 affiliated professors on campus, with the plan to hire another 15 across faculties underlining the University's strategic commitment to utilize its world-class expertise in AI, to magnify the University's impact across Science, Engineering, Medicine, and other fields. The Computing Science department alone offers over 15 courses in AI and ML, to help train the next generation of AI practitioners and leading AI scientists.

However, UofA's strength in fundamental AI research and teaching of advanced, technical AI topics misses a broader opportunity. Many students outside Computing Science—even outside STEM—are interested in learning more about AI: hoping to understand how (1) the technology works, (2) to evaluate inflated expectations, (3) to identify the risks, and perhaps most importantly, (4) to decide how AI fits into their future studies and career path. University of Alberta researchers continue to shape the future of AI, but students without a strong programming and mathematical background cannot access this expertise.

The University has begun to take the first steps towards expanding our leadership in AI teaching and research across campus. Fifteen new faculty are being hired across campus to spearhead research programs using AI in



Chemistry, Physics, Agriculture, Indigenous Studies, to name a few. This will create opportunities for students in a variety of disciplines—outside CS—to learn about and use AI in their studies. In addition, we are planning a new course, called AI Everywhere, that will provide students from all backgrounds—no programming or calculus prerequisites—with a broad introduction to the field, from its historical roots to modern internet-scale learning systems. The goal is clear: as UofA is a world leader in AI, we should provide relevant training to students across faculties.

The next step in expanding AI teaching is the non-technical AI Everywhere certificate. The AI Everywhere course provides a nice entry point to many different learning paths. Every year, faculties introduce more AI related content in their courses (see a nice list [here](#)). Courses such as Cognitive Science in Psychology, Philosophy of Mind, Data Analysis in Forestry and Agriculture, and Precision Health, highlight the cross disciplinary reach and relevance of AI in other fields of study. The purpose of this AI Everywhere Certificate is to provide an educational pathway for students to gain a basic understanding of AI starting with the AI Everywhere course and then combine it with applications of AI across several different subjects.

The AI Everywhere embedded certificate focuses on providing students a perspective on the historical roots of AI techniques, potential applications applications, including AI systems that they interact with in their daily lives. From there, students will be exposed to basic concepts on computer programming and training machine learning systems, with a strong focus on making the content relevant and accessible to diverse, non-technical backgrounds. This all starts with the first required course in the certificate, AI Everywhere, (which was approved by U of A governance in May 2023).

Following the foundational course students will take three courses in the provided list (Appendix A)—including one ethics course. Every year, faculties will have the opportunity to introduce more AI related content in their courses. Courses such as Cognitive Science in Psychology, Philosophy of Mind, Data Analysis in Forestry and Agriculture, and Precision Health, highlight the cross disciplinary reach and relevance of AI in other fields of study. The purpose of this AI Everywhere Certificate is to provide an educational pathway for students to gain a basic understanding of AI starting with the AI Everywhere course and then combine it with applications of AI across several different subjects.

Naturally, with our new 15 cross-campus AI hires and the rapid infusion of AI in other fields of study, the certificate will grow to include more course options across more faculties to add to the offerings under bullets two and three. To ensure quality control and maintain standards of any new courses added to the certificate, a steering committee will be formed.

	<p>The Faculty of Science - Computing Science is partnering with AI industry leader, the Alberta Machine Intelligence Institute (Amii) to support curriculum development and industry validation. Amii was created in 2002 with significant investment from the Alberta government. Amii was named one of three national institutes in Canada’s AI strategy in 2017. As part of that strategy, the U of A spun out a not-for-profit arm of Amii to translate scientific developments into industry applications and to help organizations harness AI to increase growth and competitiveness. Announced in January 2023, the U of A and Amii will soon welcome 20 new faculty members as researchers to help share the evolving landscape of AI.</p>
<p><b>Strategic Alignment</b> How does the proposed program align with the strategic goals described in <i>For the Public Good, the University of Alberta’s Strategic Plan for Equity, Diversity, and Inclusion, and Braiding Past, Present and Future: University of Alberta Indigenous Strategic Plan?</i> How does the program further the objectives or align with the other institutional, Faculty, and College strategies?</p>	<p>The proposed certificate addresses all five strategic goals described in the Institutional Strategic Plan “For the Public Good”.</p> <p><b>Build</b></p> <p>To help “build a diverse and inclusive community of exceptional students, faculty, and staff from Alberta, Canada and the world”, the AI Everywhere embedded certificate will leverage the world-class, leading AI researchers at the U of A and build on the U of A’s reputation as a global leader in AI - one of the U of A’s strongest research fields. This new offering will continue to solidify the U of A’s reputation as a leader in AI.</p> <p><b>Experience</b></p> <p>The AI Everywhere embedded certificate will enable “diverse and rewarding learning opportunities that inspire us, nurture our talents, expand our knowledge and skills, and enable our success”. The embedded certificate will enable students to collaborate with leading AI researchers, create interdisciplinary connections, and provide opportunities for undergraduate students to connect with industry.</p> <p><b>Excel</b></p> <p>The AI Everywhere embedded certificate is interdisciplinary and is designed to assist in “excelling as individuals, and together, sustain a culture that fosters and champions distinction and distinctiveness in teaching, learning, research, and service”. The certificate is designed to reach a very broad range of students across the U of A’s faculties.</p> <p><b>Engage</b></p> <p>The AI Everywhere embedded certificate is directly engaging with our community through partnership with the Alberta Machine Intelligence Institute (Amii) which “engages communities across our campuses, city and region, province, nation, and the world to create reciprocal, mutually beneficial learning experiences, research projects, partnerships, and collaborations”.</p>



	<p><b>Sustain</b></p> <p>The Department of Computing Science is focused on continuously improving its course offerings, exploiting alternative funding avenues and hiring the needed resources to deliver courses to growing enrolments. The AI Everywhere embedded certificate will help to “sustain our people, our work, and the environment by attracting and stewarding the resources we need to deliver excellence to the benefit of all”.</p>
<p><b>Resource Implications</b></p> <p>Identify the resource implications of the proposed embedded credit certificate.</p>	<p>The certificate at a high-level includes INT D 161 (already approved) which is staffed by computing science. INT D 161 is designed to run online with large numbers of students. This will require one instructor to run the course and a small team of Ugrad TAs</p> <p>The remainder of the certificate will utilize existing course offerings. The optional courses in the certificate are offered by many facilities and there are many different paths through the certificate. Even if 1000 students a year enrolled in the certificate, individual courses enrollments would not grow significantly.</p> <p>Ideally, in the future MOOC-based courses (to be developed) can be introduced and included as part of the certificate. This will require little teaching resources once completed, offer nearly unlimited scaling, and allow students—who choose to do so—take the entire certificate online.</p> <p>The capstone course, yet to be developed, can be designed to facilitate scaling, but also offer a unique in-class experience inspired by the Games Certificate. This could be achieved by two sections: (1) a enrollment-limited (~50 students) in-class section where students work on teams to complete a term project (described below), and (2) a MOOC capstone course guiding students through a term project with student interaction occurring via discussion forms and periodic, group zoom project standup meetings.</p> <p>AI Everywhere in-class capstone, INT D 461, (MOOC version would be similar). <b>To be developed later</b></p> <ul style="list-style-type: none"> <li>● Source social good projects with Community Service-Learning (CLS)</li> <li>● There will be an application process to ensure a diversity of students are admitted to the in-class section</li> <li>● Students work in teams with diverse composition (same approach as the Games Certificate):             <ul style="list-style-type: none"> <li>○ Students comfortable with programming</li> <li>○ Students from phil and business</li> <li>○ Students from humanities and sciences</li> </ul> </li> </ul>





	<ul style="list-style-type: none"> <li>● Sequence of well-structured group-work assignments supporting course project</li> </ul> <p>Culminating in a term project demonstrating tangible progress on CLS problem.</p>
<p><b>Enrolment</b> Outline the expected enrolment for the embedded credit certificate and provide the rationale and/or evidence this estimate is based on. Also provide any potential impacts on course offerings.</p>	<p>We expect the AI Everywhere certificate to be very popular across the U of A's undergraduate student body. We believe the enrollment estimates to be:</p> <ul style="list-style-type: none"> <li>● 500 to 1000 students take INT D 161 a year</li> <li>● By the end of the certificate, we expect hundreds of students to be enrolling in the final capstone yearly (assuming usual attrition through the certificate)</li> </ul>
<p><b>Consultation</b> Describe the consultation process that occurred with students and other relevant stakeholders and service units of the University, and the feedback received.</p>	<p><i>Those who are actively <b>participating</b>:</i></p> <ul style="list-style-type: none"> <li>● Departmental curriculum committees, Faculty of Science; various meetings in 2023</li> <li>● Department of Computing Science Council</li> <li>● AI faculty in computing science ( including multiple meetings with Rob Holte, Randy Goebel, Russ Greiner, Alona Fyshe, Martha White)</li> <li>● Goeffery Rockwell (advised on humanities and arts perspectives)</li> <li>● Associate Chairs (undergraduate), Faculty of Science; various meetings in 2023</li> <li>● Academic advisors, Faculty of Science; various meetings in 2023</li> <li>● Alberta Machine Intelligence Institute; industry partner with regular meetings in 2022 and 2023</li> <li>● Online Learning &amp; Continuing Education division; regular meetings in 2022 and 2023</li> </ul> <p><i>Those who have been <b>consulted</b>:</i></p> <ul style="list-style-type: none"> <li>● Faculty of Engineering</li> <li>● Jennifer Welchman (consulted on Philosophy courses included)</li> <li>● Irene Sywenky (consulted on Comparative Literature course included)</li> <li>● Linglong Kong and Bei Jiang (statistics)</li> <li>● Ashwin K. Iyer (ECE, Associate Dean, Undergraduate) - ongoing</li> <li>● Undergraduate students - student union</li> <li>● Provost's Office (Vice-Provost, Programs); various meetings between 2022 and 2023</li> <li>● Carrie Smith, Vice-Provost (Equity, Diversity &amp; Inclusion)</li> <li>● Provost's Office (Vice-Provost, Indigenous Programming and Research);</li> </ul>
<p><b>Indigenous Perspectives</b> Describe the outcomes of the consultation with the Vice Provost (Indigenous</p>	<p>In consultation with the Vice Provost (Indigenous Programming and Research), three areas where Indigenous content and perspectives can be included in the certificate were identified.</p>



<p>Programming and Research) regarding how the program will integrate/include indigenous perspectives and content, and any action items that may result.</p>	<p>The first is in the intro INT-D 161 course. The last two weeks of the course will feature guest lectures highlighting the impact of AI across disciplines. One of these lectures will feature an invited speaker discussing the intersection of AI and Indigenous perspectives. Future iterations of will further include Indigenous content earlier in the course.</p> <p>The second area where Indigenous content can be integrated is the capstone course, INT-D 461. This term-project base course will focus on real-world problems focused on social good. Student groups will be presented with a list of potential projects and this list should include projects centered on Indigenous content and concerns.</p> <p>Finally, the mandatory ethics course grouping includes course options with significant Indigenous content, including NS 115, Indigenous Peoples and Technoscience, and CMPUT 200. CMPUT 200 will include materials on Indigenous principles in AI, including data sovereignty, data ownership, and Indigenous protocol. We plan to work with scholars within the university and across Canada to build course materials and incorporate guest lectures. For example, through AI4Society, particularly the Salon series on Ethics of Data and AI, we are in communication with Professor Kisha Supernant and her PhD student Liam Wadsworth to build on their work in gathering and using data on residential school graves and following Indigenous protocol. Such collaborations would enrich the CMPUT 200 ethics course with meaningful content offering Indigenous perspectives.</p>
<p><b>Equity, Diversity and Inclusion Perspectives</b> Describe the outcomes of the consultation with the Vice-Provost (Equity, Diversity and Inclusion) regarding how the program will integrate/include EDI perspectives and content, and any action items that may result.</p>	<p>The certificate structure and individual course offerings can be vetted via an equity, diversity and inclusion lens.</p> <p>An important goal of the intro AI Everywhere course and the certificate is to increase the <b>diversity</b> of students who graduate from the UofA with basic AI literacy; making technical content accessible to students from across the humanities and sciences. One way to do so is to put significant emphasis on how AI and ML shows up in everyone’s lives, but also highlight how AI and ML can and will continue to positively impact both our lives and the activities in facilities across campus.</p> <p>An important aspect of <b>equity</b> is <b>accessibility</b> of courses. Towards this goal, the aim is students can choose to complete the certificate totally online. The introductory course, 161, and capstone will be designed and implemented this way. As the certificate grows and more courses are added the hope is that there will be a completely online path through the certificate. This approach allows for easy scaling, but importantly will reduce barriers to admission and completion of the certificate.</p>



However, this is only the first step; another key aspect of **accessibility** involves vetting courses in the certificate, especially the 161 and the capstone in terms of accessibility for self identified disabled students or faculty. This will be done in consultation with the Associate Dean of Engagement and EDI, Vice-Provost (Equity, Diversity & Inclusion), and disabled knowledge holders.

Although there are no technical requirements for enrolling, it is important that course content promotes **inclusive** and broad perspectives. In the introductory course INT-D 161, this can be done by ensuring some of the guest lectures at the end of the course include topics such as feminism and AI (with Women's and Gender Studies courses on media) or race and AI. Currently, these topics are covered in graduate courses (e.g., in Digital Humanities) and transient topics courses, however, once these offerings become established undergraduate courses they can be added to the certificate as options. Goal is to attract diverse students and make them feel engaged and included in course content. The steering committee tasked with certificate growth oversight will consult with other faculties (such as Women's and Gender studies) to ensure relevant courses are added as they come online and that those courses are designed with both scaling and online options in mind.

The instructors and the students will have to approach the historical context, ethical considerations and future applications from multiple perspectives (including the implied impacts on different communities). These themes will be established in the first AI Everywhere course and continue through the certificate all the way to the capstone, where issues of equity and inclusion in building and deploying AI systems will be tackled. The capstone course will give students first hand experience working on diverse teams, balancing diverse perspectives and finding a project that is relevant and appealing to all group members.

Finally, instructors of the introductory course (INT-D 161) and the capstone will regularly take the **Equity, Diversity, and Inclusivity (EDI) training** from the Centre for Teaching and Learning.

The certificate and course offerings have been designed to ensure more students with diverse backgrounds and perspectives—not more of the same—graduate with a basic understanding of AI so they can participate in conversations and broaden the dialog about AI beyond tech-insiders and politicians.

## Appendices



<p><b>Appendix A</b> – letters of support from relevant faculty dean(s) and college(s).</p>	<p><a href="#">Amii Letter of Support</a></p>
<p><b>Appendix B</b> – curriculum and program structure. List course names, numbers, and descriptions. Indicate if the courses are new or existing. Include draft content for the University Calendar.</p>	<ul style="list-style-type: none"> <li>- AI Everywhere course (INT D 161 --- already approved)</li> <li>- <b>Choose TWO</b> (courses that include a significant AI/ML theme or module)             <ul style="list-style-type: none"> <li>- <b>CMPUT 191 - Introduction to Data Science (existing)</b> Introduction to data acquisition, basic data manipulation (cleaning, outlier detection), analysis (regression, clustering, classification), basic statistics and machine learning tools, information visualization to communicate information from data. Prerequisite: Math 30-1. This course cannot be taken for credit if credit has been obtained in CMPUT 174, 195, or 274.</li> <li>- <b>CMPUT 195 - Introduction to Principles and Techniques of Data Science (existing)</b> This course introduces data science to students with prior computing experience. It covers the basics of data acquisition, manipulation, transformation, and cleaning, as well as data analysis (e.g., regression, clustering, classification) and visualization. Students learn principles and techniques of efficient data-driven communication and decision-making in various domains using industry-standard tools. Credit cannot be obtained for both CMPUT 191 and CMPUT 195. Prerequisite: CMPUT 174 or 274, or consent of the instructor.</li> <li>- <b>CMPUT 261 - Introduction to Artificial Intelligence (existing)</b> Introduction to artificial intelligence focusing on techniques for building intelligent software systems and agents. Topics include search and problem-solving techniques, knowledge representation and reasoning, reasoning and acting under uncertainty, machine learning and neural networks. Prerequisites: one of STAT 141, 151, 235, or 265, or SCI 151. Corequisites: CMPUT 204 or 275. Credit cannot be obtained for CMPUT 261 if credit has already been obtained for CMPUT 366, except with permission of the Department.</li> <li>- <b>CMPUT 267: Basics of Machine Learning (existing)</b> This course introduces the fundamental statistical, mathematical, and computational concepts in analyzing data.</li> </ul> </li> </ul>



The goal for this introductory course is to provide a solid foundation in the mathematics of machine learning, in preparation for more advanced machine learning concepts. The course focuses on univariate models, to simplify some of the mathematics and emphasize some of the underlying concepts in machine learning, including: how should one think about data, how can data be summarized, how models can be estimated from data, what sound estimation principles look like, how generalization is achieved, and how to evaluate the performance of learned models. Prerequisites: CMPUT 174 or 274; one of MATH 100, 114, 117, 134, 144, or 154. Corequisites: CMPUT 175 or 275; CMPUT 272; MATH 125 or 127; one of STAT 141, 151, 235, or 265, or SCI 151.

- **CMPUT 365 - Introduction to Reinforcement Learning (existing)**

This course provides an introduction to reinforcement learning, which focuses on the study and design of learning agents that interact with a complex, uncertain world to achieve a goal. The course will cover multi-armed bandits, Markov decision processes, reinforcement learning, planning, and function approximation (online supervised learning). The course will take an information-processing approach to the study of intelligence and briefly touch on perspectives from psychology, neuroscience, and philosophy. The course will use the University of Alberta MOOC on Reinforcement Learning. Any student who understands the material in this course will understand the foundations of much of modern probabilistic artificial intelligence (AI) and be prepared to take more advanced courses, or to apply AI tools and ideas to real-world problems. Prerequisites: CMPUT 175 or 275; one of CMPUT 267, 466, or STAT 265; or consent of the instructor.

- **CMPUT 366 - Search and Planning in Artificial Intelligence (existing)**

This course provides an introduction to search and planning in artificial intelligence. The course covers deterministic single-agent and multi-agent problems. Students will learn how to model real-world problems as state-space search problems and how to solve such problems. The course covers algorithms for solving deterministic shortest path problems with factored and non-factored states, combinatorial optimization problems,



constraint satisfaction problems, and multi- agent problems.  
Prerequisites: CMPUT 204 or 275, and CMPUT 272.

- **CMPUT 300 - Computers and Society**

Social, ethical, professional, economic, and legal issues in the development and deployment of computer technology in society. Prerequisites: Any introductory-level Computing Science course or SCI 100, and any 200-level course.

- **ECE 442 - Introduction to Multimedia Signal Processing (existing)**

Human visual/audio perception and multimedia data representations. Basic multimedia processing concepts, multimedia compression and communications. Machine learning tools for multimedia signal processing, including principle component analysis and Gaussian mixture modeling. Applications to human-computer interaction, visual-audio, and visual-text processing. Prerequisites: ECE 220 or CMPUT 275, ECE 342, MATH 102 or equivalent knowledge. Credit may be obtained in only one of ECE 442 or E E 442.

- **ECE 447 - Data Analysis and Machine Learning for Engineers (existing)**

The course introduces basic concepts and techniques of data analysis and machine learning. Topics include: data preprocessing techniques, decision trees, nearest neighbor algorithms, linear and logistic regressions, clustering, dimensionality reduction, model evaluation, deployment methods, and emerging topics. Prerequisites: ECE 220 or CMPUT 275, and ECE 342 or STAT 235, or consent of instructor.

- **ECE 449 - Intelligent Systems Engineering (existing)**

Intelligent systems for automatic control and data analysis. The concepts of vagueness and uncertainty, approximate reasoning, fuzzy rule-based systems and fuzzy control. Strategies for learning and adaptation, supervised and reinforcement learning, self-organization and the selection of neural network architectures. Discussion of the principles of search and optimization, evolution and natural selection and genetic algorithms. Introduction to hybrid intelligence. Applications of intelligent systems for pattern recognition, classification,



forecasting, decision support, and control. Credit may be obtained in only one of CMPE 449 or ECE 449.

- **STAT 276 - Statistics for Data Science**

Fundamental principles of statistical learning and inference for data science Understanding of types of analytics, probability, variability, relationship between variables, probability distributions, law of large numbers, Central Limit Theorem, hypothesis testing and statistical significance, and elementary theory of regression. Prerequisite: MATH 281 or STAT 265. Students presenting STAT 265 must also present one of MATH 117 or MATH 216 as corequisite. Credit can only be obtained in one of STAT 266 or STAT 276.

- **STAT 413 - Computing for Data Science (existing)**

Survey of contemporary languages/environments suitable for algorithms of Statistics and Data Science. Introduction to Monte Carlo methods, random number generation and numerical integration in statistical context and optimization for both smooth and constrained alternatives, tailored to specific applications in statistics and machine learning. Prerequisites: One of STAT 265 or MATH 281, or consent of the Department.

- **STAT 441 - Statistical Methods for Learning and Data Mining (existing)**

Review of linear and nonlinear regression and brief introduction to generalized linear models, the course covers selected methods of dimension reduction (principal components, factor analysis, canonical correlations), of unsupervised (clustering, multidimensional scaling ordination) and supervised classification (discriminant analysis, logistic regression, nearest neighbours - including, among others, the machine learning methods like classification trees, neural networks, and support vector machines). Prerequisite: STAT 378.

- **PSYCH 258 - Cognitive Psychology (existing)**

A survey of findings of theoretical issues in the study of cognition, such as perception, attention, knowledge representation, memory, learning, language, reasoning, and problem solving. Prerequisites: PSYCH 104 or SCI 100. [Faculty of Science]



- **PSYCH 275 - Brain and Behavior (existing)**  
An introduction to brain mechanisms involved in sensation, perception, movement, motivation, learning, and cognition, as studied in both humans and lower animals. Prerequisites: PSYCH 104 or SCI 100. [Faculty of Science]
- **PHIL 205 - Philosophy of Mind (existing)**  
Basic questions concerning the mind and our attempts to study it scientifically.
- **PHIL 365 - Philosophy of Computing (existing)**  
Philosophical issues arising from computation and computer science. No previous familiarity with computing is necessary.
- **C LIT 210 - Cyberliterature (existing)**  
An introduction to the relations between literature and digital textuality.
- **HIST 115 - Technology and History (existing)**  
The role of technology in historical developments around the world.
- **STS 200 - Introduction to Science, Technology, and Society (existing)**  
An examination of the interrelations of science, technology, society and environment, emphasizing an interdisciplinary humanities and social sciences perspective. Note: not to be taken by students with credit in INT D 200.
- **MST 351 - Understanding Video Games**  
Beginning with an exploration of games in general and leading to modern video games. This course will be delivered on-line and is offered in a Cost Recovery format at an increased rate of fee assessment; refer to the Fees Payment Guide in the University Regulations and Information for Students section of the Calendar. Not open to students with credit in or enrolled in STS 350.
- **Choose ONE:**
  - **PHIL 250 - Contemporary Ethical Issues (existing)**  
An examination of questions of right and wrong, good and evil,





	<p>and the application of ethical theories to practical issues.</p> <ul style="list-style-type: none"><li>- <b>PHIL 366 - Computers and Culture</b> (existing) Cultural, social, ethical and political issues arising from the computer revolution and new digital technologies.</li><li>- <b>PHIL 385 - Ethics and Artificial Intelligence</b> (existing) A study of ethical issues raised by artificial intelligence systems..</li><li>- <b>NS 115 - Indigenous Peoples and Technoscience</b> (existing) This course introduces students to the long and complicated relationships between science and technology fields, broader dynamics of colonialism, and increasing demands for Indigenous governance of the sciences and technologies that affect them.</li><li>- <b>CMPUT 200 - Ethics of Data Science and Artificial Intelligence</b> (existing) This course focuses on ethics issues in Artificial Intelligence (AI) and Data Science (DS). The main themes are privacy, fairness/bias, and explainability in DS. The objectives are to learn how to identify and measure these aspects in outputs of algorithms, and how to build algorithms that correct for these issues. The course will follow a case-studies based approach, where we will examine these aspects by considering real-world case studies for each of these ethics issues. The concepts will be introduced through a humanities perspective by using case studies with an emphasis on a technical treatment including implementation work. Prerequisite: one of CMPUT 191 or CMPUT 195, or one of CMPUT 174 or CMPUT 274 and one of STAT 141, STAT 151, STAT 235, STAT 265, SCI 151, MATH 181, or CMPUT 267, or consent of the instructor.</li><li>- <b>CMPUT 300 - Computers and Society</b> (existing) Social, ethical, professional, economic, and legal issues in the development and deployment of computer technology in society. Prerequisites: Any introductory-level Computing Science course or SCI 100, and any 200-level course.</li><li>- AI Everywhere capstone. <b>To be developed later</b></li></ul>
--	---



	To ensure quality control and maintain standards of any new courses added to the certificate, a steering committee will be formed.
<b>Appendix C - other</b> Include any additional information in support of the proposal (if relevant)	

Faculty (& Department or Academic Unit):	Faculty of Science Department of Computing Science
Contact Person:	Adam White, Assistant Professor, Department of Computing Science
Level of change: (choose one only)	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of change request: (check all that apply)	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
For which term is this intended to take effect?	Fall 2024
Does this proposal have corresponding course changes? (Should be submitted at the same time)	Yes (INT D 461 - Artificial Intelligence Everywhere Capstone)

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

The University of Alberta is home to the oldest and one of the largest computing science departments in Canada, with an international reputation for contributing to both the foundations and applications of computing. The U of A's commitment to AI education has the U of A harnessing data to make new strides in almost every field - including finance, agriculture, health and beyond. The U of A has ranked in the top three globally in artificial intelligence and machine learning research over the last 25 years.

Artificial Intelligence (AI) and Machine Learning (ML) are becoming ubiquitous in our daily lives. More and more consumer products utilize real-time data collection and cloud processing to adapt to users. Autonomous cars have driven millions of miles without collision in California and other temperate climates. Chatbots based on massive models trained on large portions of the internet and giving rise to serious questions about consciousness, potential harms, and regulating future AI deployments and research. A casual observer of the media would not be wrong to assume things have changed overnight and new uses of AI are just around the corner that could have profound impacts on our economy and society.

Naturally, the truth is: while there have been advances in certain application domains, fundamental challenges remain that will prevent wide-scale deployment of AI technologies. Nevertheless, it is now time to consider the social, ethical, and economic implications of AI. Equally important, AI and ML are having an impact today in traditional industries like construction, and across the sciences (e.g., using machine learning techniques to build models of the induced magnetosphere of Mars). It is critical that students be given the opportunity to learn about AI: both how it works and the potential and pitfalls of future AI developments at a societal level, and in terms of their own future career paths!

### Calendar Copy

URL in current Calendar (or "New page") NEW PAGE	
Current Copy: <del>Removed language</del>	Proposed Copy: <b>New language</b>
	<p><b>Artificial Intelligence Everywhere Certificate</b></p> <p>The Artificial Intelligence Certificate is open to any undergraduate student at the University of Alberta. The certificate offers two required courses. The first, AI Everywhere, provides students with a good understanding of key areas of artificial intelligence, including the basics in computer programming and machine learning. The capstone course provides the students with the opportunity of applying, in practical scenarios, the knowledge gained in the other courses and focuses on giving students experience working on interdisciplinary teams. The certificate also offers a set of elective courses that teach students how Artificial Intelligence is being used in different subject areas and application domains.</p> <p>The Artificial Intelligence Certificate is designed for students across campus, embracing the multidisciplinary reach of AI in our society.</p> <p>To be awarded the certificate, students must apply through Bear Tracks with their application to graduate by the application deadline for convocation (see <a href="#">Academic Schedule</a>).</p> <p>Students may pursue the Artificial Intelligence Certificate by fulfilling existing requirements for majors, minors, or honors in their respective disciplines, and by completing 15 units as follows:</p> <p><b>Certificate Requirements</b></p> <hr/> <ul style="list-style-type: none"> <li>• INT D 161 - Artificial Intelligence Everywhere</li> <li>• INT D 461 - Artificial Intelligence Everywhere Capstone</li> </ul> <p><b>6 units from:</b></p>

- C LIT 210 - Cyberliterature
- CMPUT 191 - Introduction to Data Science
- CMPUT 195 - Introduction to Principles and Techniques of Data Science
- CMPUT 261 - Introduction to Artificial Intelligence
- CMPUT 267 - Basics of Machine Learning
- CMPUT 365 - Introduction to Reinforcement Learning
- CMPUT 366 - Search and Planning in Artificial Intelligence
- ECE 442 - Introduction to Multimedia Signal Processing
- ECE 447 - Data Analysis and Machine Learning for Engineers
- ECE 449 - Intelligent Systems Engineering
- HIST 115 - Technology and History
- MST 351 - Understanding Video Games
- PHIL 205 - Philosophy of Mind
- PHIL 365 - Philosophy of Computing
- PSYCH 258 - Cognitive Psychology
- PSYCH 275 - Brain and Behavior
- STAT 276 - Statistics for Data Science
- STAT 413 - Computing for Data Science
- STAT 441 - Statistical Methods for Learning and Data Mining
- STS 200 - Introduction to Science, Technology, and Society

**3 units from:**

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
- CMPUT 300 - Computers and Society
- NS 115 - Indigenous Peoples and Technoscience
- PHIL 250 - Contemporary Ethical Issues
- PHIL 366 - Computers and Culture
- PHIL 385 - Ethics and Artificial Intelligence

**Notes:**

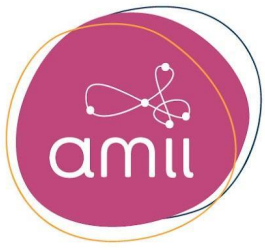
1. Students in the Bachelor of Science (Major and Honors) program with a Major or Honors subject area in Computing Science - Artificial

	Intelligence Option cannot embed this certificate in their degree.
--	--

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Approved by Science Undergraduate Programs Committee on November 30, 2023
---

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates. Department of Computing Science Council, approved November 30, 2023.
---



Subject: Supporting the AI Everywhere Certificate Program

To whom it may concern,

As one of Canada's three centres of AI excellence, I am writing on behalf of the Alberta Machine Intelligence Institute (Amii) to support the introduction of the AI Everywhere Certificate Program at the University of Alberta. Recognizing the University of Alberta's long history of excellence in AI research and its commitment to academic innovation, I am confident that this program will elevate the institution's standing and shape the next generation of AI literacy.

Over the decades, the University of Alberta has been a pioneer in cutting-edge research, establishing itself as a beacon of academic excellence in machine learning and artificial intelligence. The institution's longstanding commitment to fostering a culture of curiosity, collaboration, and creativity has resulted in groundbreaking contributions to AI research, showcasing both the institution and its alumni's talents and strength on the world stage.

The decision to introduce an AI Certificate Program is a testament to the University of Alberta's dedication to equipping students with the most relevant and transformative skills. By offering a comprehensive and accessible AI curriculum, the University of Alberta will continue to attract and cultivate the finest minds to address the pressing challenges of our time. The certificate's introduction aligns perfectly with the institution's legacy of excellence and unwavering commitment to shaping the future through knowledge and innovation.

Amii is excited about the possibilities that this program will unlock for students, faculty, and the institution as a whole, and we are looking forward to supporting the development, rollout and implementation of the AI Everywhere Certificate as needed.

Thank you for considering my support, and I look forward to witnessing the launch of the AI Everywhere Certificate at the University of Alberta.

Sincerely,

Cam Linke, CEO

Alberta Machine Intelligence Institute

# Feedback on Proposed AI Everywhere Certificate

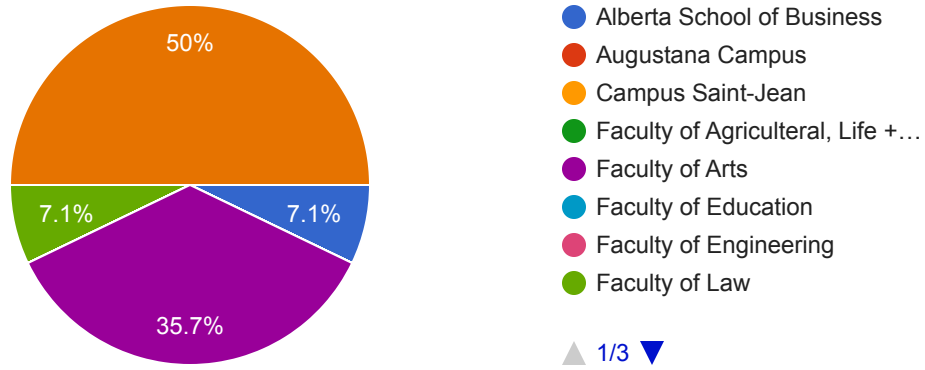
14 responses

[Publish analytics](#)

Select the Faculty/Institution administering your degree program

 Copy

14 responses





## What is your major?

14 responses

Psychology

Computer Science

Finance

Urban and Regional Planning

Biological Sciences

Law

Earth and Atmospheric Sciences

Neuroscience

Economics

Honors Applied Math

Computing Science

English



### What is your minor (if any)?

7 responses

Sociology

Economics

Political Sciences

Agriculture (changing to International Relations)

N/A

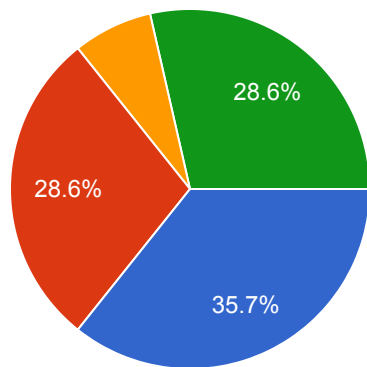
Bioinformatics

Creative Writing

### My academic year is

 Copy

14 responses

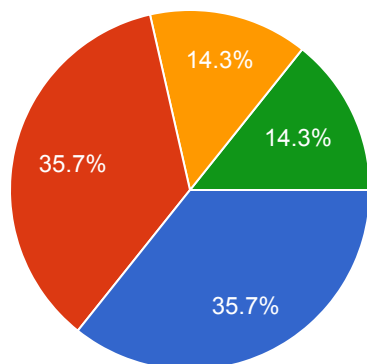


- Undergraduate - Year 1
- Undergraduate - Year 2
- Undergraduate - Year 3
- Undergraduate - Year 4+

### Assuming this certificate is offered starting next year (2024/2025), how likely is it that you would try to complete this certificate?

 Copy

14 responses



- I definitely would try to complete this certificate.
- I would consider it, but may not or cannot complete this certificate.
- I would likely not complete this certificate, but I would still like to provide further comments.
- I am not interested in this certificate. [This response will...



## Artificial Intelligence Everywhere

From the INT D 161 description, do you have any feedback on the course itself and/or its relevance to the proposed certificate?

8 responses

No

It looks pretty interesting, I think it'll help me in the field of psychology

Sounds interesting and I am registered to take it next semester.

I think that this sounds like an excellent introduction that provides the necessary framework for the rest of the Certificate.

n/a

I think that the introductory description provides a high level of broadness across the subject of AI and think that it sounds like a valuable course. Relevant to the proposed certificate, could this program potentially be offered as a minor as well?

I think it's important to ensure that all information is given in a non-bias way. When talking about AI, there can be many different perspectives. It is important for professors to talk about both the positive and negative impacts of AI, and then allow students to form their own views.

I think technical classes rarely show us how AI is implemented in the real world. I would really like to dig into the parts of the description that mention the "role of data collection" (I've briefly heard of the issues around web scraping, using human moderators to vet toxic data, etc.) and "human inputs" (how exactly do humans verify the outputs of AI, especially in high-stakes settings like law or medicine?).



(Optional) If you had heard about INT D 161 before you started this survey, please describe where you first heard about it.

9 responses

The Ualberta website

Found it while I was browsing through course catalogue

Saw it being offered in the UofA undergraduate newsletter

I heard about it in our science life newsletter before enrolling in this course.

I looked at all the INT D classes

Email

Heard from family members who heard about it on the news

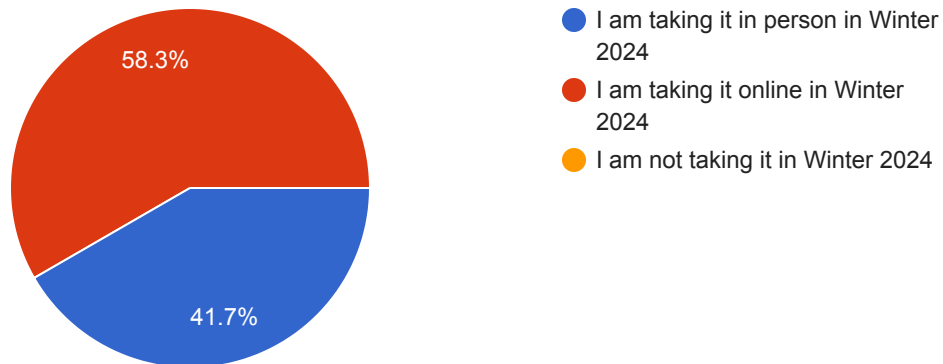
I heard about it from the University of Alberta newsletter which stated that this course would be offered this winter term.

I was browsing the course calendar and saw it.

If you are taking this course in the coming Winter 2024 term, are you taking it in person or online?



12 responses



(Optional) If you are taking the course in Winter 2024, please explain why you chose to do it in person or online.

9 responses

I chose in person because I prefer it, and I took the course because it looks like something that would help my degree and knowledge on the topic

Chose to do it online for greater flexibility with scheduling

Because I strongly despise online learning

Choosing to take it online as the in-class conflicts with my law classes

I am taking this course online as the in person times did not work with my schedule at all.

It seems more convenient to do it online - fits better in my schedule

I prefer in person learning. It is more difficult for me to focus when online.

I chose to do it in person because it lets me connect with professors better. I chose to take this course because AI is passion for me, and I would love to learn about it in a structured environment. This course also allows me to network with like-minded individuals who are curious about the same matters.

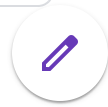
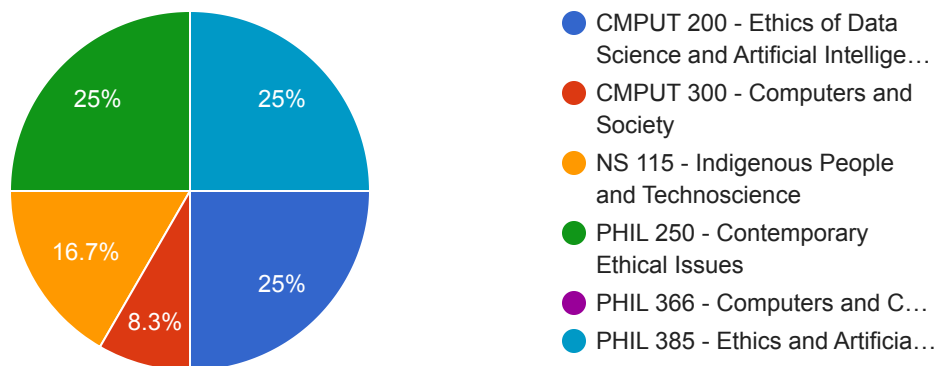
Online as it's usually more flexible to complete online lectures while holding a job.

### Ethics Requirements

Ethics courses



12 responses



Do you have any feedback on these courses as part of the proposed certificate? Are there other ethics courses related to artificial intelligence that should be considered for this list?

6 responses

No

Ethics and artificial intelligence looks interesting

These all look like good courses to include as options in the certificate. I like how it is a multidisciplinary approach and does not force individuals in Arts to take a heavy CMPUT course that they would likely struggle in, nor does it force Computer Scientists to take a heavy PHIL that they too would likely struggle in.

N/A - taking professionalism and ethics in Law which is required of us

Professor David Marples is teaching a history course next semester that is history in the last 10 years and I think this would address several contemporary issues, including ethics.

NS 201?

### Options Courses

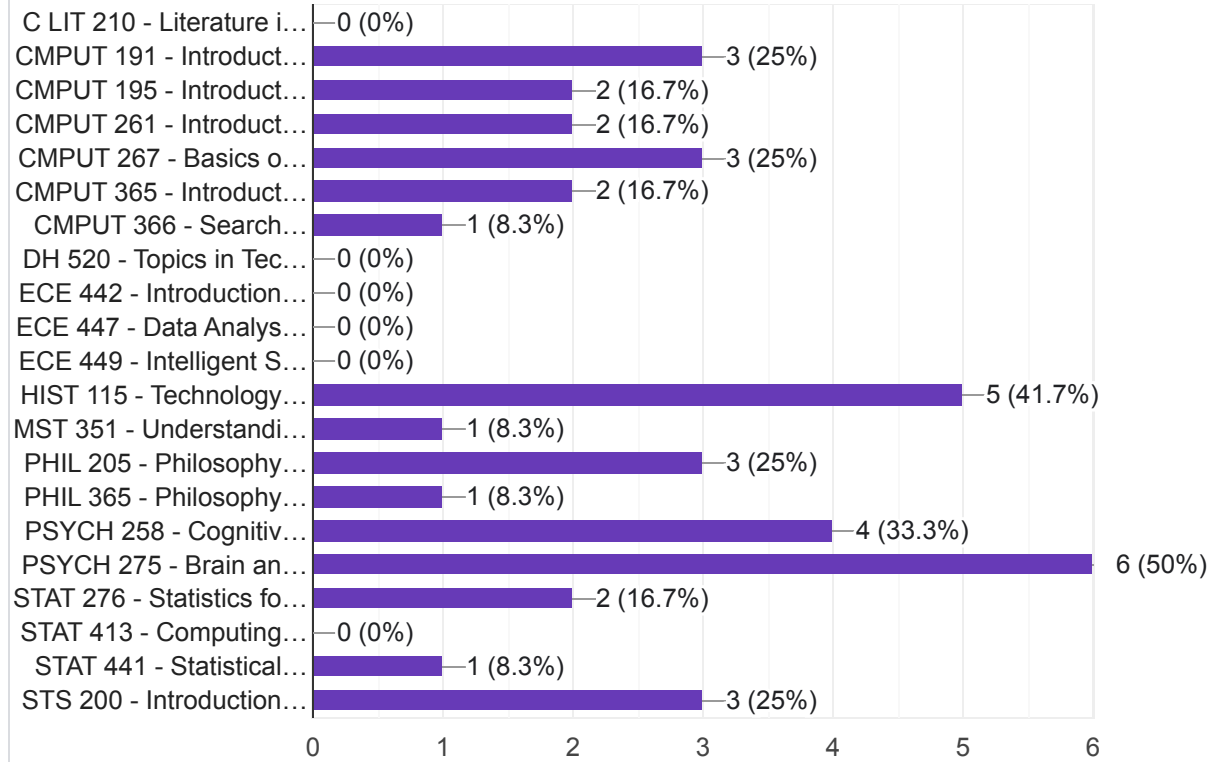




### Options Courses

Select at least two courses below that you would be most likely to take to complete the options requirements of this proposed certificate.

12 responses



Do you have any suggestions or comments about the options courses? Are there other courses with a significant artificial intelligence and/or machine learning component we should consider including in this list of options courses?

6 responses

FIN 450/FIN 440/FIN 488 -FINTECH/ FIN 488 DATA SCIENCE 2

I'm a psychology major, so these classes are something I would take anyways

I feel as though the content of PYSCH 275 probably does not have enough relation to AI in order to be a valid way to fill this requirement. Additionally, I think that these options courses would have to be readily accessible to individuals interested in this certificate because the vast majority of them have >1 prerequisite, so individuals would have to plan for this in advance

We talked about some machine learning with spacecraft in astronomy so maybe a higher level astro course?

I think Philosophies in society and values are also important for AI

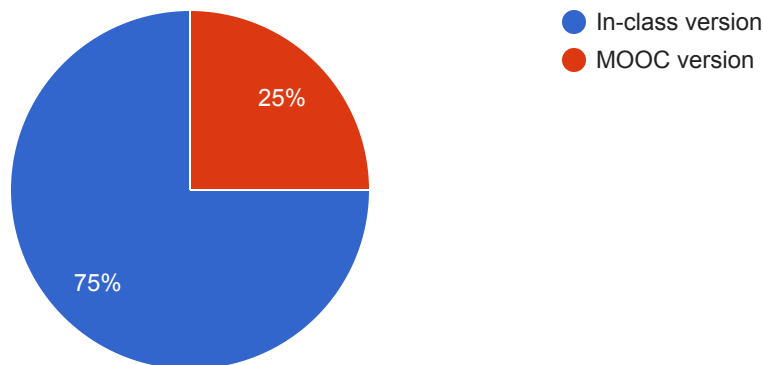
CMPUT 328 covers a wide range of models (neural networks, diffusion models, VAEs, transformers, GANs) and its assignments require implementing them with PyTorch, which I think makes it a good candidate for the certificate. Also, PSYCH 381 goes deeper into behaviourism (taken after PSYCH 275) and covered more detailed models of learning, which ties in nicely with RL.

### Capstone Project Course

Would you be more likely take the in-class version or the MOOC version of INT D 461?



12 responses





Do you have any suggestions or comments about the capstone project course?

6 responses

No

Personally I would take the online, as I live outside of Canada, and if I could I'd want to take it in the summer

Sounds interesting

It might be ideal to ensure that there is adequate enrollment from different faculties in this course in a given semester to ensure that some groups are not better prepared for this Capstone than others.

I think this provides a very neat opportunity that is more modern to our current world.

As with most group-based projects, I think it is important to ensure a team is well-balanced and has individuals from varying backgrounds. I think the capstone project should allow individuals to form their own groups, or the groups should be formed on the basis of majors (e.g. every group will be formed from different majors). If possible, I think having individual projects is much better than group projects though.

### Submission

Any final comments?

4 responses

I would really appreciate having these courses offered online during the summer so I can work on them then, and have more flexibility. But the certificate really looks interesting

I likely would have been interested in this Certificate had it been available in Fall 2020, but because I am in the last year of my degree, I would be unable to complete this certificate.

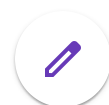
I love the idea of an AI course and may try to take this certificate if I have room for the required courses in my schedule (and enjoy INT D 160)

This is such an interesting course! I am excited to see how the university delivers the course content and I hope the certification is approved.

This content is neither created nor endorsed by Google. [Report Abuse](#) - [Terms of Service](#) - [Privacy Policy](#).

Google Forms





Faculty (& Department or Academic Unit):	Faculty of Science Department of Computing Science
Contact Person:	Ken Wong, Associate Chair, Department of Computing Science
Level of change: (choose one only) [?]	<input checked="" type="checkbox"/> Undergraduate
	<input type="checkbox"/> Graduate
For which term will this change take effect?	Fall 2024

## Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

Artificial Intelligence presents the greatest change to how industry and society operate since the industrial revolution. In the coming decades, nearly every aspect of what we do will be shaped by AI. In order to lead with purpose, tomorrow's leaders need to have a deep understanding of this technology and how to use it.

The AI Everywhere embedded certificate culminates in a proposed capstone course, where students navigating diverse pathways through the certificate are brought together into teams to apply their gained AI knowledge and skills to solve interesting and challenging problems.

This capstone course is distinguished from the CMPUT 469 AI Capstone course offered by Computing Science in that INT D 461 is for non-technical students.

## Course Template

Current: <b>Removed language</b>	Proposed: <b>New language</b>
New course	<p><b>Subject &amp; Number: INT D 461</b></p> <p><b>Title: Artificial Intelligence Everywhere Capstone</b></p> <p><b>Course Career Undergraduate</b>  <b>Units 3</b>  <b>Approved Hours 3-0-0</b>  <b>Fee index 6</b>  <b>Faculty Science</b>  <b>Department Computing Science</b>  <b>Typically Offered either term</b></p> <p><b>Description</b>            Students from different fields, with diverse backgrounds, will have a hands-on opportunity to work in teams to apply artificial intelligence (AI) or machine learning (ML) to solve challenging problems from the community. Students will apply best practices in teamwork and communication, and reinforce how to address issues such as bias and fairness within the developed solution or analysis. Students will share interdisciplinary insights into how AI and ML can be applied across different</p>

	disciplines. Prerequisites: INT D 161, and one of CMPUT 200, 300, NS 115, PHIL 250, 366, or 385. Credit cannot be obtained in both CMPUT 469 and INT D 461.
--	---

**Reviewed/Approved by:**

REQUIRED: Faculty Council (or delegate) and approval date. Approved by Science Undergraduate Programs Committee on November 30, 2023
---

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates. Computing Science Curriculum Committee, consulted November 22, 2023. Department of Computing Science Council, approved November 30, 2023.
---



**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:** To approve the suspension of admission/transfer to the Minor in Mathematics (Faculty of Arts) and the Minor in Statistics (Faculty of Arts).

<b>DATE</b>	January 11, 2024
<b>TO</b>	GFC Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Provost and Vice-President (Academic)

**MOTION: THAT the GFC Programs Committee approve, with delegated authority from General Faculties Council, the suspension of admission/transfer to the Minor in Mathematics (Faculty of Arts) and the Minor in Statistics (Faculty of Arts).**

**EXECUTIVE SUMMARY:**

Arts students have always been welcome to follow either the Minors in Mathematics and Statistics (Faculty of Arts) or the Minors in Mathematics and Statistics (Faculty of Science).

The required courses for the Science Minors overlap with the recommended courses for the Arts Minors, but the requirements for the Science Minors are structured in a way to provide more guidance to students. The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams.

Therefore, we are requesting that admission/transfer to the Minors in Mathematics and Statistics (Faculty of Arts) be suspended. The intention is to terminate the Minors in Mathematics and Statistics (Faculty of Arts) when all current students have completed their program.

In Fall 2023 there were 20 Arts students in the Minor in Mathematics (Faculty of Arts) and 9 Arts students in the Minor in Statistics (Faculty of Arts). There were 9 Arts students in the Minor in Mathematics (Faculty of Science) and 1 Arts student in the Minor in Statistics (Faculty of Science).

Current students will be emailed about their program options and the timeline for completion. The courses required for the Arts Minors will continue to be offered. Current students may complete the Arts Minor or transfer to the Science Minor. Arts students may request a program change by filling out the "Declaration or Change of BA Major/Minor" form on this page:

<https://www.ualberta.ca/arts/student-services/forms-for-students.html>. Updated information will be published in the Calendar and in advising materials made available to all students by Arts Undergraduate Student Services.

**Supporting Materials:**

Attachments:

1. Internal Suspension Proposal templates
2. Calendar Change Proposal forms
3. Dr. Declan Ali, Dean of Science, Letter of Support



- 4. Dr. Robert Wood, Dean of Arts, Letter of Support

**SCHEDULE A:**

**Engagement and Routing**

Consultation and Stakeholder Participation / Approval Route (parties who have seen the proposal and in what capacity) <[Governance Resources Section Student Participation Protocol](#)>

Those who are actively **participating**:

- Undergraduate Student Services, Faculty of Arts
- Department of Mathematical & Statistical Sciences, Faculty of Science

Those who have been **consulted**:

- Office of the Vice-Provost (Programs) – September – November, 2023
- Program Support Team – November 23, 2023

Those who have been **informed**:

- Dr. Declan Ali, Dean of Science
- Dr. Robert Wood, Dean of Arts

**Approval Route:**

- Mathematical & Statistical Sciences, Department Council - September 28, 2023
- Arts Academic Affairs Committee – October 17, 2023
- Arts Executive Committee – November 16, 2023
- Arts Faculty Council – November 30, 2023
- GFC Programs Committee – January 11, 2024

**Supplementary Notes / Context:**

**Internal Suspension and Termination Template  
- for-credit programs not requiring Ministry approval -**

This template is to be used for proposals to suspend or terminate the following program types that do not require Ministry approval:

- Second-level specializations (e.g., minors of undergraduate programs, Honors streams of existing undergraduate programs, and second-level specializations of graduate programs)
- Embedded certificates

Faculties and Departments must consult with the Portfolio Initiatives Manager in the Office of the Provost and Vice-President (Academic) ([carley.roth@ualberta.ca](mailto:carley.roth@ualberta.ca)) on the appropriate template and process. Graduate proposers must also consult with the Faculty of Graduate Studies and Research ([fsgov@ualberta.ca](mailto:fsgov@ualberta.ca)).

**PROPOSAL TYPE**

<b>This proposal is for a (select one):</b>	
<input checked="" type="checkbox"/>	Suspension - Complete <a href="#">Section A</a> only
<input type="checkbox"/>	Termination - Complete <a href="#">Section B</a> only

**SECTION A: SUSPENSION**

Suspension of a program means to suspend admissions, thereby allowing currently enrolled students to complete the requirements while preventing new students from enrolling. Suspensions are typically implemented for a five-year period. A period of suspension must precede the termination of a program.

<b>1: Basics</b>		
<b>Specialization/Embedded Certificate Name</b>	Minor in Mathematics (Faculty of Arts)	
<b>Faculty/Department</b>	Faculty of Arts and Department of Mathematical & Statistical Sciences	
<b>Contact information</b>	Name and Title	Rebecca Nagel, Associate Dean Undergraduate, Arts
	Phone	780-492-7611
	Email	rebecca.nagel@ualberta.ca
<b>Proposed start date of suspension</b>	September 1, 2024	
<b>Proposed end date of suspension</b>	June 30, 2028	



**Attachments**

- Proposed Calendar changes
- Letter of Support from the Dean of the Faculty

**2: Rationale, Implications, and Impacts**

**Rationale for Suspension of Specialization / Embedded Certificate**

Explain the reason for the suspension with supporting evidence (e.g., low student demand, declining labour market demand, institutional capacity, need for program redevelopment, quality assurance review recommendation, etc.).

As of Fall 2024, all Science Mathematics minors will follow the regulations introduced as part of the new BSc renewal process. Arts students have always been welcome to follow either the Minor in Mathematics (Faculty of Arts) or the Minor in Mathematics (Faculty of Science).

In Fall 2023 there are 20 Arts students in the Minor in Mathematics (Faculty of Arts) and 9 Arts students in the Minor in Mathematics (Faculty of Science).

The required courses for the Minor in Mathematics (Faculty of Science) overlap with the recommended courses for the Minor in Mathematics (Faculty of Arts), but the requirements for the Minor in Mathematics (Faculty of Science) are structured in a way to provide more guidance to students. The Minor in Mathematics (Faculty of Science) requires 3 more units at the senior-level than the Minor in Mathematics (Faculty of Arts). The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams.

Therefore, we are requesting that admission/transfer to the Minor in Mathematics (Faculty of Arts) be suspended. The intention is to terminate the Minor in Mathematics (Faculty of Arts) when all current students have completed their program.

**Document enrolments by head count for the most recent 5-year period**

Enrolment	2019	2020	2021	2022	2023
<b>Total Headcount</b>	0	83	103	37	20
• Year 1	47	13	51	10	2
• Year 2	17	16	7	4	4
• Year 3	13	21	7	8	2
• Year 4	22	33	38	15	12

**Rationale for End date**

We anticipate that all current students will be able to complete the Minor in Mathematics (Faculty of Arts) by April 2028.



<p>Briefly explain the rationale for the proposed end date for the suspension.</p>	
<p><b>Current Students</b> Describe how active students will be assisted in completing graduation requirements during the suspension period, as well as information regarding formal communication plans.</p>	<p>Current students will be emailed about their program options and the timeline for completion.</p> <p>The courses required for the Minor in Mathematics (Faculty of Arts) will continue to be offered. Current students may complete the Minor in Mathematics (Faculty of Arts) or transfer to the Minor in Mathematics (Faculty of Science). Arts students may request a program change by filling out the “Declaration or Change of BA Major/Minor” form on this page: <a href="https://www.ualberta.ca/arts/student-services/forms-for-students.html">https://www.ualberta.ca/arts/student-services/forms-for-students.html</a>.</p> <p>Updated information will be published in the Calendar and in advising materials made available to all students by Arts Undergraduate Student Services.</p>
<p><b>Stop-Out Students</b> Describe how stop-out students will be managed, including information regarding communication plans.</p>	<p>Students follow the requirements for the term they have been admitted to most recently.</p>
<p><b>Consultation</b> Briefly describe the consultation process that occurred with students and other relevant stakeholders, and the feedback received.</p>	<p>Over the last several years, the Department of Mathematical and Statistical participated actively in the lengthy consultation and review of the BSc degree framework and the undergraduate programs offered in the Faculty of Science. Student groups were consulted at multiple stages and also the student members of University governance committees.</p>
<p><b>Resource Implications</b> Identify relevant financial impact, including reallocation of internal resources.</p>	<p>No financial impact is expected. The same courses will continue to be taught.</p>
<p><b>Approval Process</b> Indicate the internal governance path, including meeting dates</p>	<p>Mathematical &amp; Statistical Sciences, Department Council - September 28, 2023          Arts Academic Affairs Committee – October 17, 2023          Arts Executive Committee – November 16, 2023          Arts Faculty Council – November 30, 2023          GFC Programs Committee – January 11, 2024</p>

## SECTION B: TERMINATION

Termination of a program means that the program has been eliminated and can no longer be offered. Terminations must be preceded by a period of suspension, typically five years.



1: Basics		
<b>Specialization / Embedded Certificate Name</b>		
<b>Faculty/Department</b>		
<b>Contact information</b>	Name and Title	
	Phone	
	Email	
<b>Proposed effective date of termination</b>		
<b>Attachments</b>		
<input type="checkbox"/> Proposed Calendar changes <input type="checkbox"/> Letter of Support from the Dean of the Faculty		

2: Rationale, Implications and Impacts	
<b>Rationale for Termination</b> Identify the reason(s) for the termination with supporting rationale and evidence.	
<b>Was the proposal preceded by a suspension?</b> If yes, please indicate the date of the suspension. If not, explain why a period of suspension was not implemented and indicate when students were last admitted to the program. <i>Note: terminations that are not preceded by a period of suspension must first be</i>	



<p><i>approved by the Vice-Provost (Programs) prior to entering the approval process.</i></p>	
<p><b>Consultation</b> Describe the consultation process that occurred with relevant stakeholders.</p>	
<p><b>Communications</b> Describe plans for communicating the termination decision to relevant stakeholders.</p>	
<p><b>Resource Implications</b> Describe plans for reallocation of resources previously used for this Specialization/Embedded Certificate.</p>	
<p><b>Approval Process</b> Indicate the internal governance path, including meeting dates</p>	

**Internal Suspension and Termination Template  
- for-credit programs not requiring Ministry approval -**

This template is to be used for proposals to suspend or terminate the following program types that do not require Ministry approval:

- Second-level specializations (e.g., minors of undergraduate programs, Honors streams of existing undergraduate programs, and second-level specializations of graduate programs)
- Embedded certificates

Faculties and Departments must consult with the Portfolio Initiatives Manager in the Office of the Provost and Vice-President (Academic) ([carley.roth@ualberta.ca](mailto:carley.roth@ualberta.ca)) on the appropriate template and process. Graduate proposers must also consult with the Faculty of Graduate Studies and Research ([fsgov@ualberta.ca](mailto:fsgov@ualberta.ca)).

**PROPOSAL TYPE**

<b>This proposal is for a (select one):</b>	
<input checked="" type="checkbox"/>	Suspension - Complete <a href="#">Section A</a> only
<input type="checkbox"/>	Termination - Complete <a href="#">Section B</a> only

**SECTION A: SUSPENSION**

Suspension of a program means to suspend admissions, thereby allowing currently enrolled students to complete the requirements while preventing new students from enrolling. Suspensions are typically implemented for a five-year period. A period of suspension must precede the termination of a program.

<b>1: Basics</b>		
<b>Specialization/Embedded Certificate Name</b>	Minor in Statistics (Faculty of Arts)	
<b>Faculty/Department</b>	Faculty of Arts and Department of Mathematical & Statistical Sciences	
<b>Contact information</b>	Name and Title	Rebecca Nagel, Associate Dean Undergraduate, Arts
	Phone	780-492-7611
	Email	rebecca.nagel@ualberta.ca
<b>Proposed start date of suspension</b>	September 1, 2024	
<b>Proposed end date of suspension</b>	June 30, 2028	

**Attachments**

- Proposed Calendar changes
- Letter of Support from the Dean of the Faculty

**2: Rationale, Implications, and Impacts**
**Rationale for Suspension of Specialization / Embedded Certificate**

Explain the reason for the suspension with supporting evidence (e.g., low student demand, declining labour market demand, institutional capacity, need for program redevelopment, quality assurance review recommendation, etc.).

As of Fall 2024, all Science Statistics minors will follow the regulations introduced as part of the new BSc renewal process. Arts students have always been welcome to follow either the Minor in Statistics (Faculty of Arts) or the Minor in Statistics (Faculty of Science).

In Fall 2023 there are 9 Arts students in the Minor in Statistics (Faculty of Arts) and 1 Arts student in the Minor in Statistics (Faculty of Science).

The required courses for the Minor in Statistics (Faculty of Science) overlap with the recommended courses for the Minor in Statistics (Faculty of Arts), but the requirements for the Minor in Statistics (Faculty of Science) are structured in a way to provide more guidance to students. The Minor in Statistics (Faculty of Science) requires 9 more units at the senior-level than the Minor in Statistics (Faculty of Arts). The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams.

Therefore, we are requesting that admission/transfer to the Minor in Statistics (Faculty of Arts) be suspended. The intention is to terminate the Minor in Statistics (Faculty of Arts) when all current students have completed their program.

**Document enrolments by head count for the most recent 5-year period**

Enrolment	2019	2020	2021	2022	2023
<b>Total Headcount</b>	46	15	43	13	9
• Year 1	34	6	33	8	2
• Year 2	8	6	5	2	5
• Year 3	1	2	3	1	1
• Year 4	3	1	2	2	1

**Rationale for End date**

We anticipate that all current students will be able to complete the Minor in Statistics (Faculty of Arts) by April 2028.

<p>Briefly explain the rationale for the proposed end date for the suspension.</p>	
<p><b>Current Students</b> Describe how active students will be assisted in completing graduation requirements during the suspension period, as well as information regarding formal communication plans.</p>	<p>Current students will be emailed about their program options and the timeline for completion.</p> <p>The courses required for the Minor in Statistics (Faculty of Arts) will continue to be offered. Current students may complete the Minor in Statistics (Faculty of Arts) or transfer to the Minor in Statistics (Faculty of Science). Arts students may request a program change by filling out the “Declaration or Change of BA Major/Minor” form on this page: <a href="https://www.ualberta.ca/arts/student-services/forms-for-students.html">https://www.ualberta.ca/arts/student-services/forms-for-students.html</a>.</p> <p>Updated information will be published in the Calendar and in advising materials made available to all students by Arts Undergraduate Student Services.</p>
<p><b>Stop-Out Students</b> Describe how stop-out students will be managed, including information regarding communication plans.</p>	<p>Students follow the requirements for the term they have been admitted to most recently. Arts students will continue to have the opportunity to study Statistics.</p>
<p><b>Consultation</b> Briefly describe the consultation process that occurred with students and other relevant stakeholders, and the feedback received.</p>	<p>Over the last several years, the Department of Mathematical and Statistical participated actively in the lengthy consultation and review of the BSc degree framework and the undergraduate programs offered in the Faculty of Science. Student groups were consulted at multiple stages and also the student members of University governance committees.</p>
<p><b>Resource Implications</b> Identify relevant financial impact, including reallocation of internal resources.</p>	<p>No financial impact is expected. The same courses will continue to be taught.</p>
<p><b>Approval Process</b> Indicate the internal governance path, including meeting dates</p>	<p>Mathematical &amp; Statistical Sciences, Department Council - September 28, 2023          Arts Academic Affairs Committee – October 17, 2023          Arts Executive Committee – November 16, 2023          Arts Faculty Council – November 30, 2023          GFC Programs Committee – January 11, 2024</p>

## SECTION B: TERMINATION

Termination of a program means that the program has been eliminated and can no longer be offered. Terminations must be preceded by a period of suspension, typically five years.



1: Basics		
<b>Specialization / Embedded Certificate Name</b>		
<b>Faculty/Department</b>		
<b>Contact information</b>	Name and Title	
	Phone	
	Email	
<b>Proposed effective date of termination</b>		
<b>Attachments</b>		
<input type="checkbox"/> Proposed Calendar changes <input type="checkbox"/> Letter of Support from the Dean of the Faculty		

2: Rationale, Implications and Impacts	
<b>Rationale for Termination</b> Identify the reason(s) for the termination with supporting rationale and evidence.	
<b>Was the proposal preceded by a suspension?</b> If yes, please indicate the date of the suspension. If not, explain why a period of suspension was not implemented and indicate when students were last admitted to the program. <i>Note: terminations that are not preceded by a period of suspension must first be approved by the Vice-Provost</i>	



<i>(Programs) prior to entering the approval process.</i>	
<b>Consultation</b> Describe the consultation process that occurred with relevant stakeholders.	
<b>Communications</b> Describe plans for communicating the termination decision to relevant stakeholders.	
<b>Resource Implications</b> Describe plans for reallocation of resources previously used for this Specialization/Embedded Certificate.	
<b>Approval Process</b> Indicate the internal governance path, including meeting dates	



<b>Faculty of Arts</b>	<b>Mathematical and Statistical Sciences</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	David McNeilly
Department/Unit Approval Date:	Mathematical and Statistical Sciences, September 28, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

As of Fall 2024, all Science Mathematics minors will follow the regulations introduced as part of the new BSc renewal process. Arts students have always been welcome to follow either the Arts Mathematics minor or the Science Mathematics minor. The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams. Therefore, admission/transfer to the Arts Mathematics minor is being suspended. The intention is to terminate the Arts Mathematics minor when all current students have completed their program.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47349)

**Calendar Copy**

Current: <b>Removed language</b> (Include name of program)	Proposed: <b>New language</b>
Minor in Mathematics (Faculty of Arts) [Arts]	Minor in Mathematics (Faculty of Arts) [Arts]
<b>General Information</b>	Effective September 2024, there will be no further admissions to this minor. Students who entered this program prior to September 2024 must complete all program requirements by April 30, 2028. Students may choose to transfer from the Minor in Mathematics (Faculty of Arts) to the Minor in Mathematics (Faculty of Science). The last degree with a Minor in Mathematics (Faculty of Arts) will be granted at Spring Convocation 2028.
<del>Bachelor of Arts students choosing to do a minor in Mathematics, can choose to follow the Faculty of Arts' requirements or the Faculty of Science's requirements for this minor.</del>	
<del>The Faculty of Science's requirements for this minor can be found in Minor in Mathematics (Faculty of Science).</del>	

Students taking this minor from other programs should note the regulations and requirements on their own program page.

### Requirements for the Minor

Students must have a minimum of 12 units to a maximum of 42 units of senior level Mathematics courses including 6 units at the 300- or 400-level.

### Recommended Courses

In order to meet prerequisite requirements for a broad range of 300- and 400-level courses, the following courses are recommended for a Mathematics minor:

- MATH 114 - Elementary Calculus I
- MATH 115 - Elementary Calculus II
- MATH 125 - Linear Algebra I
- MATH 214 - Calculus III
- MATH 315 - Calculus IV
- MATH 225 - Linear Algebra II
- MATH 228 - Algebra: Introduction to Ring Theory

<b>Faculty of Arts</b>	<b>Mathematical and Statistical Sciences</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	David McNeilly
Department/Unit Approval Date:	Mathematical and Statistical Sciences, September 28, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

As of Fall 2024, all Science Statistics minors will follow the regulations introduced as part of the new BSc renewal process. Arts students have always been welcome to follow either the Arts Statistics minor or the Science Statistics minor. The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams. Therefore, admission/transfer to the Arts Statistics minor is being suspended. The intention is to terminate the Arts Statistics minor when all current students have completed their program.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47349)

**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> New language
Minor in Statistics (Faculty of Arts) [Arts]	Minor in Statistics (Faculty of Arts) [Arts]
<b>General Information</b>	Effective September 2024, there will be no further admissions to this minor. Students who entered this program prior to September 2024 must complete all program requirements by April 30, 2028. Students may choose to transfer from the Minor in Statistics (Faculty of Arts) to the Minor in Statistics (Faculty of Science). The last degree with a Minor in Statistics (Faculty of Arts) will be granted at Spring Convocation 2028.
<del>Bachelor of Arts students choosing to do a minor in Statistics, can choose to follow the Faculty of Arts' requirements or the Faculty of Science's requirements for this minor.</del>	
<del>The Faculty of Science's requirements for this minor can be found in Minor in Statistics (Faculty of Science).</del>	

Students taking this minor from other programs should note the regulations and requirements on their own program page.

### Requirements for the Minor

Students must have a minimum of 12 units to a maximum of 42 units of senior level Statistics courses including 6 units at the 300- or 400-level.

### Recommended STAT Courses

The following courses are recommended for a Statistics minor:

#### ***3 units from***

- STAT 151 - Introduction to Applied Statistics I
- STAT 161 - Introductory Statistics for Business and Economics

#### ***All of the following***

- STAT 265 - Probability and Statistics I
- STAT 266 - Probability and Statistics II

### Recommended MATH Courses

In order to meet prerequisite requirements for a broad range of 300- and 400-level STAT courses, the following courses are also recommended:

- MATH 114 - Elementary Calculus I
- MATH 115 - Elementary Calculus II
- MATH 125 - Linear Algebra I
- MATH 214 - Calculus III
- MATH 315 - Calculus IV
- MATH 228 - Algebra: Introduction to Ring Theory



Office of the Dean  
Faculty of Science  
College of Natural and Applied Sciences  
6-188 Centennial Centre for Interdisciplinary Science (CCIS)

T 780.492.4459  
F 780.492.9434  
dean.science@ualberta.ca  
ualberta.ca/science

Date: Wednesday, December 6, 2023

To: Robert Wood  
Dean, Faculty of Arts

From: Declan Ali

Re: Letter of Support for Arts - Suspension of Minors in Mathematics and Statistics

---

Dear Robert,

This letter is to express my support for the proposal by the Faculty of Arts to suspend the Minor in Mathematics and the Minor in Statistics offered through Arts. These Minors essentially duplicate the Minor in Mathematics and Minor in Statistics offered through Science. Requiring Arts students to take the Minors offered through Science ensures that all students with a Minor in Mathematics or Minor in Statistics, regardless of their home faculty, will receive the same breadth and depth of training in these subject areas.

Thank you for taking this important, unifying initiative. Science will continue to welcome Arts students in our courses leading to a Minor in Mathematics or a Minor in Statistics.

A handwritten signature in blue ink that reads "Declan W. Ali".

Declan W. Ali  
Dean of Science

cc: Rebecca Nagel, Associate Dean, Undergraduate, Faculty of Arts  
Gerda de Vries, Associate Dean, Undergraduate, Faculty of Science



December 20, 2023

Dr. Janice Causgrove Dunn  
Vice-Provost (Programs)  
Chair, GFC Programs Committee

Dear Dr. Causgrove Dunn:

I am writing in support of the proposed suspension of admission to the Arts minors in Mathematics and Statistics.

Arts students have always been welcome to follow either the Arts Minors in Mathematics and Statistics or the Science Minors in Mathematics and Statistics. The required courses in the Arts and Science streams overlap, but the requirements on the Science side are structured in a way to provide more guidance to students. I agree with the Department of Mathematical and Statistical Sciences that there is no added value in maintaining two separate streams. The intention is to terminate the Arts Minors in Mathematics and Statistics when all current students have completed their program.

The Faculties of Arts and Science have long enjoyed a close working relationship. Students in Arts or Science regularly take courses and minors in the other Faculty. I look forward to exploring other possible cross-faculty projects and initiatives.

I ask the members of GFC Programs to approve the proposed suspension of admission to the Arts minors in Mathematics and Statistics.

Sincerely,

A handwritten signature in black ink, appearing to read "Rob Wood".

**Dr. Robert Wood**  
Dean, Faculty of Arts

<b>Faculty of Arts</b>	<b>Mathematical and Statistical Sciences</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	David McNeilly
Department/Unit Approval Date:	Mathematical and Statistical Sciences, September 28, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

As of Fall 2024, all Science Mathematics minors will follow the regulations introduced as part of the new BSc renewal process. Arts students have always been welcome to follow either the Arts Mathematics minor or the Science Mathematics minor. The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams. Therefore, admission/transfer to the Arts Mathematics minor is being suspended. The intention is to terminate the Arts Mathematics minor when all current students have completed their program.

[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47349)

**Calendar Copy**

Current: <b>Removed language</b> (Include name of program)	Proposed: <b>New language</b>
Minor in Mathematics (Faculty of Arts) [Arts] <hr/> <b>General Information</b> <hr/> <del>Bachelor of Arts students choosing to do a minor in Mathematics, can choose to follow the Faculty of Arts' requirements or the Faculty of Science's requirements for this minor.</del> <hr/> <del>The Faculty of Science's requirements for this minor can be found in Minor in Mathematics (Faculty of Science).</del>	Minor in Mathematics (Faculty of Arts) [Arts]  Effective September 2024, there will be no further admissions to this minor. Students who entered this program prior to September 2024 must complete all program requirements by April 30, 2028. Students may choose to transfer from the Minor in Mathematics (Faculty of Arts) to the Minor in Mathematics (Faculty of Science). The last degree with a Minor in Mathematics (Faculty of Arts) will be granted at Spring Convocation 2028.

Students taking this minor from other programs should note the regulations and requirements on their own program page.

### Requirements for the Minor

---

Students must have a minimum of 12 units to a maximum of 42 units of senior level Mathematics courses including 6 units at the 300- or 400-level.

### Recommended Courses

---

In order to meet prerequisite requirements for a broad range of 300- and 400-level courses, the following courses are recommended for a Mathematics minor:



- MATH 114 - Elementary Calculus I
- MATH 115 - Elementary Calculus II
- MATH 125 - Linear Algebra I
- MATH 214 - Calculus III
- MATH 315 - Calculus IV
- MATH 225 - Linear Algebra II
- MATH 228 - Algebra: Introduction to Ring Theory



<b>Faculty of Arts</b>	<b>Mathematical and Statistical Sciences</b>
Level of change	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Type of Change	<input checked="" type="checkbox"/> Program <input type="checkbox"/> Regulation
Are there corresponding course changes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Additional Documentation Attached	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contact Person:	David McNeilly
Department/Unit Approval Date:	Mathematical and Statistical Sciences, September 28, 2023

**Rationale for change** (Indicate other consultation groups, departments, units or faculties)

As of Fall 2024, all Science Statistics minors will follow the regulations introduced as part of the new BSc renewal process. Arts students have always been welcome to follow either the Arts Statistics minor or the Science Statistics minor. The Department of Mathematical and Statistical Sciences does not see value in maintaining two separate streams. Therefore, admission/transfer to the Arts Statistics minor is being suspended. The intention is to terminate the Arts Statistics minor when all current students have completed their program.


[https://calendar.ualberta.ca/preview\\_program.php?catoid=39&poid=47349](https://calendar.ualberta.ca/preview_program.php?catoid=39&poid=47349)


**Calendar Copy**

<b>Current:</b> <del>Removed language</del> (Include name of program)	<b>Proposed:</b> New language
Minor in Statistics (Faculty of Arts) [Arts] <hr/> <b>General Information</b> <hr/> <del>Bachelor of Arts</del> students choosing to do a minor in Statistics, can choose to follow the Faculty of Arts' requirements or the Faculty of Science's requirements for this minor. <hr/> The Faculty of Science's requirements for this minor can be found in Minor in Statistics (Faculty of Science).	Minor in Statistics (Faculty of Arts) [Arts]  Effective September 2024, there will be no further admissions to this minor. Students who entered this program prior to September 2024 must complete all program requirements by April 30, 2028. Students may choose to transfer from the Minor in Statistics (Faculty of Arts) to the Minor in Statistics (Faculty of Science). The last degree with a Minor in Statistics (Faculty of Arts) will be granted at Spring Convocation 2028.

Students taking this minor from other programs should note the regulations and requirements on their own program page.

### Requirements for the Minor

---

Students must have a minimum of 12 units to a maximum of 42 units of senior level Statistics courses including 6 units at the 300- or 400-level.

### Recommended STAT Courses

---

The following courses are recommended for a Statistics minor:

#### ***3 units from***

---

- STAT 151 - Introduction to Applied Statistics I
- STAT 161 - Introductory Statistics for Business and Economics

#### ***All of the following***

---

- STAT 265 - Probability and Statistics I
- STAT 266 - Probability and Statistics II

### Recommended MATH Courses

---

In order to meet prerequisite requirements for a broad range of 300- and 400-level STAT courses, the following courses are also recommended:

- MATH 114 - Elementary Calculus I
- MATH 115 - Elementary Calculus II
- MATH 125 - Linear Algebra I
- MATH 214 - Calculus III
- MATH 315 - Calculus IV
- MATH 228 - Algebra: Introduction to Ring Theory



**UNIVERSITY  
OF ALBERTA**

# Interdepartmental Correspondence

---

Office of the Dean  
Faculty of Science  
College of Natural and Applied Sciences  
6-188 Centennial Centre for Interdisciplinary Science (CCIS)

T 780.492.4459  
F 780.492.9434  
dean.science@ualberta.ca  
ualberta.ca/science

Date: Wednesday, December 6, 2023

To: Robert Wood  
Dean, Faculty of Arts

From: Declan Ali

Re: Letter of Support for Arts - Suspension of Minors in Mathematics and Statistics

---

Dear Robert,

This letter is to express my support for the proposal by the Faculty of Arts to suspend the Minor in Mathematics and the Minor in Statistics offered through Arts. These Minors essentially duplicate the Minor in Mathematics and Minor in Statistics offered through Science. Requiring Arts students to take the Minors offered through Science ensures that all students with a Minor in Mathematics or Minor in Statistics, regardless of their home faculty, will receive the same breadth and depth of training in these subject areas.

Thank you for taking this important, unifying initiative. Science will continue to welcome Arts students in our courses leading to a Minor in Mathematics or a Minor in Statistics.

A handwritten signature in blue ink that reads "Declan W. Ali".

Declan W. Ali  
Dean of Science

cc: Rebecca Nagel, Associate Dean, Undergraduate, Faculty of Arts  
Gerda de Vries, Associate Dean, Undergraduate, Faculty of Science



December 20, 2023

Dr. Janice Causgrove Dunn  
Vice-Provost (Programs)  
Chair, GFC Programs Committee

Dear Dr. Causgrove Dunn:

I am writing in support of the proposed suspension of admission to the Arts minors in Mathematics and Statistics.

Arts students have always been welcome to follow either the Arts Minors in Mathematics and Statistics or the Science Minors in Mathematics and Statistics. The required courses in the Arts and Science streams overlap, but the requirements on the Science side are structured in a way to provide more guidance to students. I agree with the Department of Mathematical and Statistical Sciences that there is no added value in maintaining two separate streams. The intention is to terminate the Arts Minors in Mathematics and Statistics when all current students have completed their program.

The Faculties of Arts and Science have long enjoyed a close working relationship. Students in Arts or Science regularly take courses and minors in the other Faculty. I look forward to exploring other possible cross-faculty projects and initiatives.

I ask the members of GFC Programs to approve the proposed suspension of admission to the Arts minors in Mathematics and Statistics.

Sincerely,

A handwritten signature in black ink, appearing to read "Rob Wood".

**Dr. Robert Wood**  
Dean, Faculty of Arts

**Decision**  **Discussion**  **Information**

**ITEM OBJECTIVE:**

Revise the policy around graduate certificate admissions to clarify pathways and provide greater flexibility for certificate students.

<b>DATE</b>	January 11, 2024
<b>TO</b>	Programs Committee
<b>RESPONSIBLE PORTFOLIO</b>	Faculty of Graduate & Postdoctoral Studies

**MOTION:**

THAT the GFC Programs Committee approve the proposed changes for Graduate Certificate regulate as set out in the Academic Requirements, Laddering, and Maintenance of Registration sections, for inclusion in the 2024-2025 *University Calendar*, and implementation upon approval.

**EXECUTIVE SUMMARY:**

These changes revise existing rules with respect to graduate certificate admissions and maintenance of registration, with the intention of:

- (1) redefining the graduate certificate as a more prominent and inclusive pathway into graduate studies;
- (2) encouraging programs to build “ladders” from certificates to Master’s degrees; and
- (3) creating flexibility for students and programs.

At present, University regulations treat graduate certificates essentially like PhDs in most respects, including admission (which requires transcripts, letters of reference, and a GPA calculation); admission to a second certificate in a sequence (which requires fresh documentation); and maintenance of registration, in which case a student who does not take at least one three-credit course in each academic year – even when a program decides to cancel a course for low enrollment – is considered to have withdrawn and must apply, at a significant cost, for readmission. The result has been to create serious disincentives for both students and programs. And yet we know that certificates can be an important, low-risk pathway into graduate studies, typically for working professionals and often for members of equity-deserving populations. They will be a critical building block for new course-based Master’s degrees. We are also aware that many of our U-15 peer institutions have already implemented changes similar to those recommended here.

**Supporting Materials:**

1. Calendar Change Request - Graduate Certificates



**SCHEDULE A:**

**Engagement and Routing**

**Those who have been consulted:**

- In large part, these changes reflect the conclusions of a certificates working group convened by the Faculty of Graduate Studies and Research and including representation from Faculties with certificate programs.

**Approval Route:**

- GPST - March 27, 2023
- PRC - May 11, 2023
- GPST - November 20, 2023
- FGSR Council - December 6, 2023
- Programs Committee - January 11, 2024 (Anticipated)

**Supplementary Notes / Context:**

Faculty (& Department or Academic Unit):	FGSR
Contact Person:	Andrea Riewe
Level of change: (choose one only)	<ul style="list-style-type: none"> <li>• Graduate</li> </ul>
Type of change request: (check all that apply)	<ul style="list-style-type: none"> <li>• Regulation</li> </ul>
For which term is this intended to take effect?	Implementation Upon Approval
Does this proposal have corresponding course changes? (Should be submitted at the same time)	N/A

### Rationale

*Things to consider (maximum 500 words): Why is this being changed; How will it benefit students/department/unit; How is this comparable to similar programs (internal or external); Historical context; Impacts to administration or program structure; Consultation with stakeholders*

These changes revise existing rules with respect to graduate certificate admissions and maintenance of registration, with the intention of (1) redefining the graduate certificate as a more prominent and inclusive pathway into graduate studies; (2) encouraging programs to build “ladders” from certificates to Master’s degrees; and (3) creating flexibility for students and programs. At present, University regulations treat graduate certificates essentially like PhDs in most respects, including admission (which requires transcripts, letters of reference, and a GPA calculation); admission to a second certificate in a sequence (which requires fresh documentation); and maintenance of registration, in which case a student who does not take at least one three-credit course in each academic year – even when a program decides to cancel a course for low enrollment – is considered to have withdrawn and must apply, at a significant cost, for readmission. The result has been to create serious disincentives for both students and programs. And yet we know that certificates can be an important, low-risk pathway into graduate studies, typically for working professionals and often for members of equity-deserving populations. They will be a critical building block for new course-based Master’s degrees. We are also aware that many of our U-15 peer institutions have already implemented changes similar to those recommended here.

In large part, these changes reflect the conclusions of a certificates working group convened by the Faculty of Graduate Studies and Research and including representation from Faculties with certificate programs.

## Calendar Copy

URL in current Calendar (or "New page") Maintenance of Registration: <a href="https://calendar.ualberta.ca/content.php?catoid=36&amp;navoid=11205#maintenance-of-registration">https://calendar.ualberta.ca/content.php?catoid=36&amp;navoid=11205#maintenance-of-registration</a>	
<b>Current Copy:</b>	<b>Proposed Copy:</b> <b>New language</b>
<p><b>Academic Requirements</b></p> <p>Applicants for admission must have obtained a University of Alberta baccalaureate degree or an equivalent qualification from another recognized academic institution.</p> <p>Qualified applicants with a three-year undergraduate degree from a Bologna-compliant or another recognized research-intensive university will be considered for admission in the standard way.</p> <p>Applicants will not be admissible to a doctoral degree program at the University of Alberta if they have previously obtained a similar or identical degree.</p> <p>The minimum Admission Grade Point Average (AGPA) required for admission to a graduate program is 3.0, equivalently, a letter grade B, on the 4-point scale from the University of Alberta, or an equivalent standing. Many graduate programs have higher minimum AGPA requirements. See <a href="#">Graduate Programs</a>.</p> <p>The admission GPA will be calculated on the last 60 units of course weight of graded coursework completed at the time of application, or on the equivalent of the last two years of full-time graded coursework.</p> <p>In exceptional cases, applicants who do not meet the minimum admission requirements but who have demonstrated significant life experience may be considered for admission. Admission on the basis of life experience requires the recommendation of the department offering the program and is subject to approval by the Dean, FGSR.</p>	<p><b>Academic Requirements</b></p> <p>Applicants for admission must have obtained a University of Alberta baccalaureate degree or an equivalent qualification from another recognized academic institution.</p> <p>Qualified applicants with a three-year undergraduate degree from a Bologna-compliant or another recognized research-intensive university will be considered for admission in the standard way.</p> <p>Applicants will not be admissible to a doctoral degree program at the University of Alberta if they have previously obtained a similar or identical degree.</p> <p><b>Except in the case of freestanding graduate certificates (see below),</b> the minimum Admission Grade Point Average (AGPA) required for admission to a graduate program is 3.0, equivalently, a letter grade B, on the 4-point scale from the University of Alberta, or an equivalent standing. Many graduate programs have higher minimum AGPA requirements. See <a href="#">Graduate Programs</a>.</p> <p>The admission GPA will be calculated on the last 60 units of course weight of graded coursework completed at the time of application, or on the equivalent of the last two years of full-time graded coursework.</p> <p>In exceptional cases, applicants who do not meet the minimum admission requirements but who have demonstrated significant life experience may be considered for admission. Admission on the basis of life experience requires the recommendation of the department offering the program and is subject to approval by the Dean, FGSR.</p> <p><b>Certificates:</b> Applicants for admission into freestanding graduate certificates normally will have</p>



## Laddering of Freestanding Graduate Certificates and Diplomas into a Course-based Master's Degree

Laddering of freestanding graduate level certificates and diplomas into a master's degree means that a student who holds specific certificates or diplomas may be able to use the courses from the certificate to receive advanced standing in a course-based master's degree.

The program will specify the certificates and/or diplomas that may ladder into a master's degree. Completion of a certificate and/or diplomas does not guarantee admission to a master's program. Certificates and/or diplomas may be used for both the basis of admission and laddered into the course-based master's degree.

## Maintenance of Registration

obtained a University of Alberta baccalaureate degree or an equivalent qualification from another recognized academic institution, for which an official transcript will be required. Admission will not be subject to a minimum GPA calculation unless such a minimum threshold is specified by the program.

Admission to a second freestanding certificate offered by the same department will not require a new application if the application is received within twelve months of the completion of the first certificate.

## Laddering of Freestanding Graduate Certificates and Diplomas into a Course-based Master's Degree

Laddering of freestanding graduate level certificates and diplomas into a master's degree means that a student who holds specific certificates or diplomas may be able to use the courses from the certificate to receive advanced standing in a course-based master's degree.

The program will specify the certificates and/or diplomas that may ladder into a master's degree. Completion of a certificate and/or diploma does not guarantee admission to a master's program.

Admission to a master's degree from a certificate and/or diploma requires a full application, in which case the minimum Admission Grade Point Average (AGPA) required is 3.0 (see above). Alternatively, a program may make provision to admit applicants solely on the basis of successful completion of one or more laddering certificates.

[...]

## Maintenance of Registration

**Course-based Programs:** In order to keep their program active, students in course-based degree programs must register in and successfully complete a minimum of 3 units of course weight of coursework

<p><b>Course-based Programs:</b> In order to keep their program active, students in course-based degree programs must register in and successfully complete a minimum of 3 units of course weight of coursework for at least one term in each September to August period.</p> <p>Other registration patterns for students in exceptional circumstances will be considered by the Faculty of Graduate Studies and Research.</p> <p>Students who fail to keep the program active as described above will be considered to have withdrawn from their program.</p>	<p>for at least one term in each September to August period.</p> <p>Other registration patterns for students in exceptional circumstances will be considered by the Faculty of Graduate Studies and Research.</p> <p>Students who fail to keep the program active as described above will be considered to have withdrawn from their program.</p> <p><b>Certificates:</b> Students registered in a graduate certificate must complete all the requirements within four years of the time they first register in the program. Registration will remain active in that time. There is no requirement to register and successfully complete any minimum number of courses in any particular academic year.</p> <p>See <a href="#">Time Limit for Completion of Graduate Programs</a></p>
--	---

**Reviewed/Approved by:**

REQUIRED:  
 GPST - March 27, 2023  
 PRC - May 11, 2023  
 GPST - November 20, 2023  
 FGSR Council - December 6, 2023

OPTIONAL: Other internal faculty approving bodies, consultation groups, or departments, and approval dates.