

## SENATE MEETING OPEN SESSION AGENDA

May 24, 2023  
3:30 – 5:00 PM  
Senate Chambers/Zoom

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### 1.0 Acknowledgement of Territory

### 2.0 S-202305.01

#### Approval of the Agenda †

Page 1 That the agenda for the May 24, 2023, Open Session of Senate be approved as presented.

† **NOTE:** *The Senate Agenda for the public session consists of two parts, a consent agenda, and a regular agenda. The consent agenda contains items that are deemed to be routine or noncontroversial and are approved by the Steering Committee of Senate for placement on that agenda. Any Senator wishing to discuss any item on the consent agenda may ask the Chair of Senate that the item be removed from the consent agenda and placed on the regular agenda. Items removed from the consent agenda will be placed on the regular agenda and dealt with in the order in which they appear on the full agenda. Senators wishing to ask a question regarding an item on the consent agenda, without necessarily removing that item from the consent agenda, are strongly encouraged to direct questions to the Secretary of Senate in advance of the meeting.*

### 3.0 Presentation:

#### 3.1 ChatGPT and other AI Applications (Discussion)

### 4.0 Approval of the Minutes

#### S-202305.02

#### Approval of the Minutes

Page 7 That the Minutes for the April 26, 2023, Open Session of Senate be approved as presented.

### 5.0 Business Arising

#### 6.0 President's Report (10 minutes)

Payne

#### 7.0 Report of the Provost (5 minutes)

Rodgers

#### 8.0 Report of the Registrar (5 minutes)

Read

8.1 Report on motion S-202303.55 and S-202303.57

### 9.0 Question Period (10 minutes)

#### 9.1 Written questions submitted in advance

#### 9.2 Questions from the floor

### 10.0 Approval of Motions on the Consent Agenda

Payne

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**S-202305.03**

**Approval of Motions on the Consent Agenda**

That the motions on the consent agenda, except for those removed for placement on the regular agenda, be approved as presented.

**11.0 Committee Reports**

**11.1 Senate Committee on Student Appeals**

**Klassen-Ross**

**11.2 Senate Committee on Academic Affairs**

**Rodgers**

**For Approval:**

FACULTY OF ENVIRONMENT CALENDAR MOTIONS FOR MAY 2023

**Page 35** EXECUTIVE SUMMARY FOR GEOGRAPHY

**Page 36** **S-202305.05**

*Consent*

**Change(s) to Program Requirements – BA Geography**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the Lower-Division degree requirements of the BA Geography, on page 136 of the 2022/2023 undergraduate calendar, be approved as proposed.

**Effective date:** September 2023

**Page 39** **S-202305.06**

*Consent*

**Change(s) to Program Requirements – BA Joint Major in Anthropology and Geography**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the Lower-Division degree requirements of the Joint Major in Anthropology and Geography BA, on page 55 of the 2022/2023 undergraduate calendar, be approved as proposed.

**Effective:** September 2023

**Page 42** **S-202305.07**

*Consent*

**Change(s) to Program Requirements – BA Joint Major in Geography and Political Science**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the Lower-Division degree requirements of the Joint Major in Geography and Political Science, on page 137 of the 2022/2023 undergraduate calendar, be approved as proposed.

**Effective:** September 2023

**Page 45** **S-202305.08**

*Consent*

**Change(s) to Program Requirements – Minor in Human Geography**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the lower division requirements of the Minor in Human Geography, on page 145 of the 2022/2023 undergraduate calendar, be approved as proposed.

**Effective date:** September 2023

**Page 47** **S-202305.09**

*Consent*

**Change(s) to Course Title and Description – GEOG 403-3**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the course title and description for GEOG 403-3, on page 258 of the 2022/2023 undergraduate calendar, be approved as proposed.

**Effective date:** September 2023

**Page 50** **S-202305.10**

*Consent*

**Change(s) to Course Title and Description – GEOG 603-3**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the course title and description for GEOG 603-3, on page 122 of the 2022/2023 graduate calendar, be approved as proposed.

**Effective:** September 2023

- Page 52**  
*Consent* **S-202305.11**  
**New Course Approval – GEOG 224-3: World Regions: Inuit Nunangat**  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course GEOG 224-3 World Regions: Inuit Nunangat be approved as follows:  
**Effective:** September 2023
- Page 56**  
*Consent* **S-202305.12**  
**New Course Approval – GEOG 225-3: Global Environmental Change**  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course GEOG 225-3 Global Environmental Change be approved as follows:  
**Effective:** September 2023
- Page 60**  
*Consent* **S-202305.13**  
**Course Deletion – GEOG 222-3: World Regions: Russia**  
That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to GEOG 222-3, World Regions: Russia on page 256 of the 2022/2023 undergraduate calendar, be approved as proposed.  
**Effective:** September 2023
- Page 62**  
*Consent* **S-202305.14**  
**Change(s) to Course Prerequisites – ENVS 230-3: Introduction to Environmental Policy**  
That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the ENVS 230-3 Introduction to Environmental Policy course prerequisite, on page 244 in the PDF calendar accessible on the UNBC web page of the 2022/2023 undergraduate calendar, be approved as proposed.  
**Effective:** September 2023
- Page 64**  
*Consent* **S-202305.15**  
**Change(s) to Degree Requirements – BA Major in Environmental & Sustainability Studies**  
That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the BA Major in Environmental & Sustainability Studies degree requirements, on page 119-121 in the PDF calendar accessible on the UNBC web page) of the 2022/2023 undergraduate calendar, be approved as proposed.  
**Effective:** September 2023
- Page 75**  
*Consent* **S-202305.16**  
**Change(s) (s) to Degree Requirements – BA Joint Major in English and Environmental and Sustainability Studies**  
That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the Joint Major in English and Environmental and Sustainability Studies (BA), on page 99-100 of the PDF calendar accessible on the UNBC web page of the 2022/2023 undergraduate calendar, be approved as proposed.  
**Effective:** September 2023
- Page 80**  
*Consent* **S-202305.17**  
**Change(s) to Degree Requirements – BA Joint Major in Environmental Sustainability Studies and Political Science**  
That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the Joint Major in Environmental and Sustainability Studies and Political Science (BA), on page 122 of the PDF calendar accessible on the UNBC web page of the 2022/2023 undergraduate calendar, be approved as proposed.  
**Effective:** September 2023
- Page 84**  
*Consent* **S-202305.18**  
**Reactivate Courses - NRES 731-3 Soil Ecology and NRES 732-3 Forest Systems and Management**  
That, on the recommendation for the Senate Committee on Academic Affairs, the reactivation of NRES 731-3 and NRES 732-3 be approved as proposed.  
**Effective:** September 2023

## FACULTY OF INDIGENOUS STUDIES, SOCIAL SCIENCES AND HUMANITIES CLAENDAR MOTIONS

### **Page 86** S-202305.19

*Consent*

#### **Change(s) to Course Description – POLS377-3: Politics of Climate Change**

That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the course description for POLS 377-3: Politics of Climate Change, on page 293 of the 2022/2023 undergraduate calendar, be approved as proposed.

**Effective:** September 2023

## FACULTY OF SCIENCE AND ENGINEERING MOTIONS

### **Page 88** S-202305.20

*Regular*

#### **New Course Approval – PHYS 701-(1.5,3): Graduate Seminar in Physics**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course PHYS 701-(1.5,3) Graduate Seminar in Physics be approved as follows:

**Effective:** September 2023

### **Page 92** S-202305.21

*Regular*

#### **New Course Approval – PHYS 793-6: Master of Science (Physics) Project**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course PHYS 793-6 Master of Science (Physics) Project be approved as follows:

**Effective:** September 2023

### **Page 96** S-202305.22

*Regular*

#### **New Course Approval – PHYS 794-12: Master of Science (Physics) Thesis**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course PHYS 794-12 Master of Science (Physics) Thesis be approved as follows:

**Effective:** September 2023

### **Page 100** S-202305.23

*Regular*

#### **New Course Approval – CPSC 793-6: Master of Science (Computer Science) Project**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course CPSC793-6 Master of Science (Computer Science) Project be approved as follows:

**Effective:** September 2023

### **Page 104** S-202305.24

*Regular*

#### **New Course Approval – CPSC 794-12: Master of Science (Computer Science) Thesis**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course CPSC 794-12 Master of Science (Computer Science) Thesis be approved as follows:

**Effective:** September 2023

### **Page 108** S-202305.25

*Regular*

#### **New Course Approval – BCMB 793-6: Master of Science (Biochemistry) Project**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course BCMB 793-6 Master of Science (Biochemistry) Project be approved as follows:

**Effective:** September 2023

### **Page 112** S-202305.26

*Regular*

#### **New Course Approval – BCMB 794-12: Master of Science (Biochemistry) Thesis**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course BCMB 794-12 Master of Science (Biochemistry) Thesis be approved as follows:

**Effective:** September 2023

### **Page 116** S-202305.27

*Regular*

#### **New Course Approval – CHEM 793-6: Master of Science (Chemistry) Project**

That, on the recommendation for the Senate Committee on Academic Affairs, the new course CHEM 793-6 Master of Science (Chemistry) Project be approved as follows:

**Effective:** September 2023

**Page 120** **S-202305.28**  
*Regular* **New Course Approval – CHEM 794-12:** Master of Science (Chemistry) Thesis  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course CHEM 794-12 Master of Science (Chemistry) Thesis be approved as follows:  
**Effective:** September 2023

**Page 124** **S-202305.29**  
*Regular* **New Course Approval – MATH 793-6:** Master of Science (Mathematics) Project  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course MATH 793-6 Master of Science (Mathematics) Project be approved as follows:  
**Effective:** September 2023

**Page 128** **S-202305.30**  
*Regular* **New Course Approval – MATH 794-12:** Master of Science (Mathematics) Thesis  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course MATH 794-12 Master of Science (Mathematics) Thesis be approved as follows:  
**Effective:** September 2023

**Page 132** **S-202305.31**  
*Regular* **New Course Approval – STAT 793-6:** Master of Science (Mathematics) Project  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course STAT 793-6 Master of Science (Mathematics) Project be approved as follows:  
**Effective:** September 2023

**Page 136** **S-202305.32**  
*Regular* **New Course Approval – STAT 794-12:** Master of Science (Mathematics) Thesis  
That, on the recommendation for the Senate Committee on Academic Affairs, the new course STAT 794-12 Master of Science (Mathematics) Thesis be approved as follows:  
**Effective:** September 2023

**Page 140** **S-202305.33**  
*Consent* **Change(s) to Program Description – MSc Program -** Mathematical, Computer, Physical and Molecular Sciences  
That, on the recommendation for the Senate Committee on Academic Affairs, the change(s) to the program description for Mathematical, Computer, Physical and Molecular Sciences (MSc Program), on page 67-69 in the 2022/2023 graduate calendar, be approved as proposed.  
**Effective:** September 2023

OFFICE OF THE REGISTRAR CALENDAR MOTIONS

**Page 159** **S-202305.34**  
*Consent* **Deletion of Minor –** Minor in Russian Studies  
That, on the recommendation for the Senate Committee on Academic Affairs, the change to the calendar description for the Minor in Russian Studies, on page 187 of the 2022/2023 undergraduate calendar, be approved as proposed.  
**Effective:** September 2023

**Page 162** **S-202305.35**  
*Consent* **Park Courses –** Faculty of Business and Economics, Faculty of Environment, Faculty of Human and Health Sciences, Faculty of Indigenous Studies, Social Sciences, and Humanities, Faculty of Science and Engineering  
That, on the recommendation for the Senate Committee on Academic Affairs, the following list of courses be excluded from the parking list (Table 1) and parked (Table 2).  
**Effective:** June 1, 2023

S-201804.15 Process for Parking courses (*for information only*) [Page 177](#)

**Page 168 S-202305.36**

Regular

That, on the recommendation for the Senate Committee on Academic Affairs, the Memorandum of Understanding between UNBC and LaSalle College Vancouver Inc. be approved as proposed.

**Effective:** Upon entering into the agreement (Senate and Board of Governors Approval)

**11.3 Steering Committee of Senate**

**Payne**

**11.4 Senate Committee on Nominations**

**Payne**

Regular

**S-202305.37**

**Recommendation of Senate Committee Members to Senate**

That, on the recommendation of the Senate Committee on Nominations, the following candidates, who have met all eligibility requirements to serve on Senate committees as indicated, be appointed as proposed.

Effective date: May 24, 2023

**For Information Items:**

**Senate Committee Vacancies**

COMMITTEE	POSITION	TERM EXPIRY DATE
SCS	Lay Senator	03/31/2024
SCN	Faculty Senator	03/31/2026
	Lay Senator	03/31/2024
SCCC	Student Senator	08/31/2023
SCAAf	Faculty Member	03/31/2026
	Graduate Student	08/31/2023
SCSB	Undergraduate Student	08/31/2023
SCUB	Graduate Student	08/31/2023
	Undergraduate Student	08/31/2023

**11.5 Senate Committee on Curriculum and Calendar**

**Stathers**

**11.6 Senate Committee on Admissions and Degrees**

**Read**

**11.7 Senate Committee on Indigenous Initiatives**

**Payne**

**11.8 Senate Committee on Honorary Degrees and Special Forms of Recognition**

**Payne**

**11.9 Senate Committee on Scholarships and Bursaries**

**Lewis**

**11.10 Senate Committee on University Budget**

**Gehloff**

**12.0 Information**

**13.0 Other Business**

**Page 174 13.1 Undergraduate Applications for International Students**

**Rodgers/Read**

**14.0 S-202305.38 (10 minutes)**

**Move to the Closed Session**

That the meeting move to Close Session.

**15.0 S-202305.46**

**Adjournment**

That the Senate meeting be adjourned.

## Cover letter to the Faculty of Environment

One of Geography's longest serving faculty members, Dr. Gail Fondahl, retired last year and Dr. Tristan Pearce, formerly of Global and International Studies, has since joined our faculty. The set of motions reflects the implications of these changes in faculty composition for Geography course offerings and program requirements. It is more intuitive to describe these changes, as below, in approximately the reverse order to which they appear in the agenda.

1. Geography proposes to delete one course (GEOG 222) formerly offered by Dr. Fondahl (MOTION FEFC 2023:04:13:11), and create two new courses (GEOG 224 and GEOG 225) that will be part of Dr. Pearce's course delivery rotation (MOTIONS FEFC 2023:04:13:09 & FEFC 2023:04:13:10). GEOG 225 will be cross-listed with INTS 225, which is already in the calendar and part of Dr. Pearce's teaching rotation. INTS wishes to retain INTS 225, and Geography wishes to add GEOG 225 to our course offerings and program requirements. The two courses will, therefore, be delivered simultaneously. Note that INTS 225 is presently cross-listed as NREM 225. The future of NREM 225 will be discussed by Global and International Studies, Ecosystem Science and Management, and Geography.
2. Geography proposes revisions to the course title and descriptions of two courses formerly offered by Dr. Fondahl that are now part of Dr. Pearce's rotation. These are GEOG 403/603 (MOTIONS FEFC 2023:04:13:07 & FEFC 2023:04:13:08).
3. The remaining motions (i.e., MOTIONS FEFC 2023:04:13:03 to FEFC 2023:04:13:06) relate to the implications of the course deletion and new course approvals, as described in item 1 above, for the program requirements of the BA Geography, Joint Major in Anthropology and Geography, Joint Major in Geography and Political Science, and the Minor in Human Geography.
4. Library Holding forms accompanying the new course approval forms for GEOG 224 and GEOG 225 are attached.
5. New course approval checklist files have been completed for GEOG 224 and GEOG 225 but are not attached. These will accompany motions to SCAFF, pending FE Council approval.

As a courtesy, draft motions are being prepared for departments whose majors are impacted by the deletion of GEOG 222 (i.e., Joint Major in Economics and Global and International Studies, Major in Global and International Studies, and Joint Major in Global and International Studies and Political Science). These departments will bring forward appropriate motions to the Faculty of Indigenous Studies, Social Sciences and Humanities (FISSSH) and the Faculty of Business and Economics (FBE) on their own schedules.

Prepared by Neil Hanlon  
March 2023



## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the Lower-Division degree requirements of the BA Geography, on page 136 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** Due to changes in faculty personnel, Geography is deleting one lower division course and creating two new lower division courses.
3. **Implications of the changes for other programs, etc., if applicable:** None.
4. **Reproduction of current Calendar entry for the item to be revised:**

#### Major in Geography

This degree provides students with comprehensive training in the study of human geography, emphasizing the cultural, social, economic, and political connections between people and their environments. We offer courses that give students the conceptual and methodological means to make sense of the places and spaces they occupy and to understand how these relate to the rest of the world. Particular emphasis is on issues of community development, social justice, environmental equity, and population health in northern environments as a starting point for understanding the dynamics of place-making in a global context.

The minimum requirement for the completion of a Bachelor of Arts with a major in Geography is 120 credit hours.

#### Program Requirements

##### Lower-Division Requirement

###### 100 Level

GEOG 101-3 Planet Earth  
GEOG 102-3 Earth from Above

###### 200 Level

GEOG 200-3 British Columbia: People and Places  
GEOG 203-3 Canada: Places, Cultures and Identities  
GEOG 204-3 Introduction to GIS  
GEOG 210-3 Introduction to Earth Science  
STAT 240-3 Basic Statistics  
or ECON 205-3 Statistics for Business and the Social Sciences

Four of the following:

GEOG 202-3 Resources, Economies and Sustainability  
GEOG 205-3 Cartography and Geomatics  
GEOG 206-3 Social Geography



GEOG 209-3 Migration and Development  
GEOG 211-3 Natural Hazards: Human and Environmental Dimensions  
GEOG 220-3 World Regions: Latin America and the Caribbean  
GEOG 222-3 World Regions: Russia  
GEOG 298-3 Special Topics

**5. Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

**Major in Geography**

This degree provides students with comprehensive training in the study of human geography, emphasizing the cultural, social, economic, and political connections between people and their environments. We offer courses that give students the conceptual and methodological means to make sense of the places and spaces they occupy and to understand how these relate to the rest of the world. Particular emphasis is on issues of community development, social justice, environmental equity, and population health in northern environments as a starting point for understanding the dynamics of place-making in a global context.

The minimum requirement for the completion of a Bachelor of Arts with a major in Geography is 120 credit hours.

**Program Requirements**

**Lower-Division Requirement**

**100 Level**

GEOG 101-3 Planet Earth  
GEOG 102-3 Earth from Above

**200 Level**

GEOG 200-3 British Columbia: People and Places  
GEOG 203-3 Canada: Places, Cultures and Identities  
GEOG 204-3 Introduction to GIS  
GEOG 210-3 Introduction to Earth Science  
STAT 240-3 Basic Statistics  
or ECON 205-3 Statistics for Business and the Social Sciences

Four of the following:

GEOG 202-3 Resources, Economies and Sustainability  
GEOG 205-3 Cartography and Geomatics  
GEOG 206-3 Social Geography  
GEOG 209-3 Migration and Development  
GEOG 211-3 Natural Hazards: Human and Environmental Dimensions  
GEOG 220-3 World Regions: Latin America and the Caribbean  
~~GEOG 222-3 World Regions: Russia~~  
GEOG 224-3 World Regions: Inuit Nunangat  
GEOG 225-3 Global Environmental Change  
GEOG 298-3 Special Topics

**6. Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography

**Faculty:** Environment



Motion Number (assigned by S-202305.06  
Steering Committee of Senate): \_\_\_\_\_

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the Lower-Division degree requirements of the Joint Major in Anthropology and Geography BA, on page 55 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** Due to changes in faculty personnel, Geography is deleting one lower division course and creating two new lower division courses.
3. **Implications of the changes for other programs, etc., if applicable:** None.
4. **Reproduction of current Calendar entry for the item to be revised:**

#### Lower-Division Requirements

ANTH 102-3 Anthropology: A World of Discovery  
ANTH 200-3 Biological Anthropology  
ANTH 205-3 Introduction to Archaeology  
ANTH 213-3 Peoples and Cultures  
ANTH 217-3 Language and Culture  
GEOG 101-3 Planet Earth  
or GEOG 102-3 Earth from Above

Four of the following:

GEOG 200-3 British Columbia: People and Places  
GEOG 202-3 Resources, Economies, and Sustainability  
GEOG 203-3 Canada: Places, Cultures, and Identities  
GEOG 204-3 Introduction to GIS  
GEOG 206-3 Social Geography  
GEOG 209-3 Migration and Development  
GEOG 211-3 Natural Hazards: Human and Environmental Dimensions  
GEOG 220-3 World Regions: Latin America and the Caribbean  
GEOG 222-3 World Regions: Russia  
GEOG 298-3 Special Topics

5. **Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

#### Lower-Division Requirements

ANTH 102-3 Anthropology: A World of Discovery  
ANTH 200-3 Biological Anthropology  
ANTH 205-3 Introduction to Archaeology  
ANTH 213-3 Peoples and Cultures  
ANTH 217-3 Language and Culture  
GEOG 101-3 Planet Earth

or GEOG 102-3 Earth from Above

Four of the following:

GEOG 200-3 British Columbia: People and Places  
GEOG 202-3 Resources, Economies, and Sustainability  
GEOG 203-3 Canada: Places, Cultures, and Identities  
GEOG 204-3 Introduction to GIS  
GEOG 206-3 Social Geography  
GEOG 209-3 Migration and Development  
GEOG 211-3 Natural Hazards: Human and Environmental Dimensions  
GEOG 220-3 World Regions: Latin America and the Caribbean  
~~GEOG 222-3 World Regions: Russia~~  
GEOG 224-3 World Regions: Inuit Nunangat  
GEOG 225-3 Global Environmental Change  
GEOG 298-3 Special Topics

**6. Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography, Anthropology

**Faculty:** Environment, Indigenous Studies, Social Sciences and Humanities

**Faculty Council Motion Number:** FEFC 2023041304

**Faculty Council Approval Date:** April 13, 2023

**Faculty Council Motion Number:** FISSSHFC.2023.04.20.03

**Faculty Council Approval Date:** April 20, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** n/a

**Senate Committee on Indigenous Initiatives Meeting Date:** n/a

**7. Other Information**

**Attachment Pages:**   0   pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**


**Motion No.:** SCAAF 202305.05

**Moved by:** Kriston Rennie

**Seconded by:** David Casperson

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by S-202305.07  
Steering Committee of Senate): \_\_\_\_\_

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the Lower-Division degree requirements of the Joint Major in Geography and Political Science, on page 137 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** Due to changes in faculty personnel, Geography is deleting one lower division course and creating two new lower division courses.
3. **Implications of the changes for other programs, etc., if applicable:** None.
4. **Reproduction of current Calendar entry for the item to be revised:**

#### Lower-Division Requirement

GEOG 101-3 Planet Earth  
or GEOG 102-3 Earth from Above  
POLS 100-3 Contemporary Political Issues  
POLS 200-3 Canadian Government and Politics  
POLS 202-3 Canada in Comparative Perspective  
POLS 230-3 International Relations  
POLS 270-3 Political Philosophy: Antiquity to Early Modernity

Four of the following:

GEOG 200-3 British Columbia: People and Places  
GEOG 202-3 Resources, Economies, and Sustainability  
GEOG 203-3 Canada: Places, Cultures and Identities  
GEOG 204-3 Introduction to GIS  
GEOG 206-3 Social Geography  
GEOG 209-3 Migration and Development  
GEOG 211-3 Natural Hazards: Human and Environmental Dimensions  
GEOG 220-3 World Regions: Latin America and the Caribbean  
GEOG 222-3 World Regions: Russia  
GEOG 298-3 Special Topics

5. **Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

#### Lower-Division Requirement

GEOG 101-3 Planet Earth  
or GEOG 102-3 Earth from Above  
POLS 100-3 Contemporary Political Issues  
POLS 200-3 Canadian Government and Politics  
POLS 202-3 Canada in Comparative Perspective  
POLS 230-3 International Relations

POLS 270-3 Political Philosophy: Antiquity to Early Modernity

Four of the following:

GEOG 200-3 British Columbia: People and Places  
GEOG 202-3 Resources, Economies, and Sustainability  
GEOG 203-3 Canada: Places, Cultures and Identities  
GEOG 204-3 Introduction to GIS  
GEOG 206-3 Social Geography  
GEOG 209-3 Migration and Development  
GEOG 211-3 Natural Hazards: Human and Environmental Dimensions  
GEOG 220-3 World Regions: Latin America and the Caribbean  
~~GEOG 222-3 World Regions: Russia~~  
GEOG 224-3 World Regions: Inuit Nunangat  
GEOG 225-3 Global Environmental Change  
GEOG 298-3 Special Topics

**6. Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography, Political Science

**Faculty:** Environment, Indigenous Studies, Social Sciences and Humanities

**Faculty Council Motion Number:** FEFC 2023041305

**Faculty Council Approval Date:** April 13, 2023

**Faculty Council Motion Number:** FISSSHFC.2023.04.20.06

**Faculty Council Approval Date:** April 20, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** n/a

**Senate Committee on Indigenous Initiatives Meeting Date:** n/a

**7. Other Information**

**Attachment Pages:**   0   pages



**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.06

**Moved by:** Kriston Rennie

**Seconded by:** David Casperson

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the lower division requirements of the Minor in Human Geography, on page 145 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** Due to changes in faculty personnel, Geography is deleting one lower division course and creating two new lower division courses.
3. **Implications of the changes for other programs, etc., if applicable:** None.
4. **Reproduction of current Calendar entry for the item to be revised:**

**Requirements**

Two of the following:

- GEOG 101-3 Planet Earth
- GEOG 102-3 Earth from Above
- GEOG 200-3 British Columbia: People and Places
- GEOG 202-3 Resources, Economies and Sustainability
- GEOG 203-3 Canada: Places, Cultures and Identities
- GEOG 204-3 Introduction to GIS
- GEOG 206-3 Social Geography
- GEOG 209-3 Migration and Development
- GEOG 211-3 Natural Hazards: Human and Environmental Dimensions
- GEOG 220-3 World Regions: Latin America and the Caribbean
- GEOG 222-3 World Regions: Russia
- GEOG 298-3 Special Topics

5. **Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

**Requirements**

Two of the following:

- GEOG 101-3 Planet Earth
- GEOG 102-3 Earth from Above
- GEOG 200-3 British Columbia: People and Places
- GEOG 202-3 Resources, Economies and Sustainability
- GEOG 203-3 Canada: Places, Cultures and Identities
- GEOG 204-3 Introduction to GIS
- GEOG 206-3 Social Geography
- GEOG 209-3 Migration and Development
- GEOG 211-3 Natural Hazards: Human and Environmental Dimensions
- GEOG 220-3 World Regions: Latin America and the Caribbean
- ~~GEOG 222-3 World Regions: Russia~~

GEOG 224-5 World Regions: Inuit Nunangut  
GEOG 225-3 Global Environmental Change  
GEOG 298-3 Special Topics

6. **Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography

**Faculty:** Environment

**Faculty Council Motion Number:** FEFC 2023041306

**Faculty Council Approval Date:** April 13, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** n/a

**Senate Committee on Indigenous Initiatives Meeting Date:** n/a

7. **Other Information**

**Attachment Pages:**   0   pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**


**Motion No.:** SCAAF 202305.07

**Moved by:** Kriston Rennie

**Seconded by:** David Casperson

**Committee Decision:** CARRIED

**Approved by SCAAF:**   May 17, 2023    
**Date**

      
**Chair's Signature**

**For recommendation to**   ✓  , **or information of**            **Senate.**

Motion Number (assigned by S-202305.09  
Steering Committee of Senate): \_\_\_\_\_

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the course title and description for GEOG 403-3, on page 258 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The course has been reassigned following the retirement of a faculty member in Geography. The course will continue to examine issues of Indigenous tenure, land claims, co-management and efforts to regain control of territory, but will now do so in the context of community-led resilience and adaptation to global climate change. The proposed course title and description better reflects the new pedagogical approach, content and topical focus to be taken.
3. **Implications of the changes for other programs, etc., if applicable:** The course is an elective requirement in several Majors and Minors (refer to the table below). The chairs of the respective programs were consulted, noting that the course will continue to examine issues of Indigenous tenure and that no additional action is required of them (i.e., if approved, the course title will be updated throughout the undergraduate calendar).

Program of study	Calendar listing(s) page number(s)	Curriculum Committee or Department Chair	Date of email consultation
Joint Major in Anthropology and Geography	55	Angele Smith	22 Feb 2023
Environmental Engineering Degree Program	107	Mauricio Dziedzic	21 Feb 2023
Environmental Planning – Major in Northern and Rural Community Planning - Major in First Nations Planning	112 113	Tara Clapp	21 Feb 2023
Major in Environmental and Sustainability Studies	121	Tara Clapp	21 Feb 2023
Minor in Social Dimensions of			

Natural Resource Management	124	Tara Clapp	21 Feb 2023
Major in First Nations Studies	126	Karin Beeler	21 Feb 2023
Joint Major in Geography and Political Science	137	Gary Wilson	21 Feb 2023
Major in Public Administration and Community Development	139 & 140	Greg Halseth	21 Feb 2023
Major in Global and International Studies	147	Jacqueline Holler	21 Feb 2023
Major in Nature-Based Tourism Management	162 & 164	Ken Otter	21 Feb 2023
Major in Northern Studies	166 & 167	Gary Wilson	21 Feb 2023

4. **Reproduction of current Calendar entry for the item to be revised:**

**GEOG 403-3 First Nations and Indigenous Geographies** This course analyzes First Nations and Indigenous traditional land tenure systems, colonial processes of land alienation, and Indigenous methods for regaining control over territory, including land claims, co-management, and legal reforms. Case studies are drawn from Canadian and international examples.

*Prerequisites:* 60 credit hours or permission of the instructor

*Precluded:* GEOG 603-3

5. **Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

**GEOG 403-3 ~~First Nations and Indigenous Geographies~~ Indigenous Geographies of Climate Resilience** ~~This course analyzes First Nations and Indigenous traditional land tenure systems, colonial processes of land alienation, and Indigenous methods for regaining control over territory, including land claims, co-management, and legal reforms. Case studies are drawn from Canadian and international examples.~~ This seminar course examines the resilience of Indigenous peoples to environmental change, highlighting the interconnected roles of place, agency, collective action, knowledge, and learning in adaptation. Theories of vulnerability, cultural adaptation, and resilience will be discussed, drawing on community-led case studies from Indigenous peoples globally.

*Prerequisites:* 60 credit hours or permission of the instructor

*Precluded:* GEOG 603-3

6. **Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography

**Faculty:** Environment

**Faculty Council Motion Number:** FEFC 2023041307

**Faculty Council Approval Date:** April 13, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** n/a

**Senate Committee on Indigenous Initiatives Meeting Date:** n/a

7. **Other Information**

**Attachment Pages:**   0   pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.08

**Moved by:** Kathy Lewis

**Seconded by:** Kriston Rennie

**Committee Decision:** CARRIED

**Approved by SCAAF:**   May 17, 2023    
**Date**

  
**Chair's Signature**

**For recommendation to**   ✓  , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by S-202305.10  
Steering Committee of Senate): \_\_\_\_\_

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the course title and description for GEOG 603-3, on page 122 of the 2022/2023 graduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The course has been reassigned following the retirement of a faculty member in Geography. The course will continue to examine issues of Indigenous tenure, land claims, co-management and efforts to regain control of territory, but will now do so in the context of community-led resilience and adaptation to global climate change. The proposed course title and description better reflects the new pedagogical approach, content and topical focus to be taken.
3. **Implications of the changes for other programs, etc., if applicable:** The course is an elective requirement option in the International Studies MA Program (page 71 of the 2022-23 graduate calendar). The Chair of Global and International Studies, Dr. Jacqueline Holler, was consulted by email about the proposed changes on 21 February 2023.
4. **Reproduction of current Calendar entry for the item to be revised:**

**GEOG 603-3 Aboriginal Geography** This course analyzes aboriginal land tenure systems, processes of land alienation, and First Nations methods used for regaining control over land, including "land claims". Case studies are drawn from First Nations in Canada and the Circumpolar North.

*Prerequisites:* Permission of the instructor

*Precluded:* GEOG 403-3

5. **Proposed revision with changes underlined and deletions indicated clearly using "strikethrough":**

**GEOG 603-3 ~~Aboriginal Geography~~ Indigenous Geographies of Climate Resilience** This course analyzes ~~aboriginal land tenure systems, processes of land alienation, and First Nations methods used for regaining control over land, including "land claims". Case studies are drawn from First Nations in Canada and the Circumpolar North.~~ This graduate seminar examines the resilience of Indigenous peoples to environmental change, highlighting the interconnected roles of place, agency, collective action, knowledge, and learning in adaptation. Theories of vulnerability, cultural adaptation, and resilience will be discussed, drawing on community-led case studies from Indigenous peoples globally.

*Prerequisites:* Permission of the instructor

*Precluded:* GEOG 403-3



6. **Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography

**Faculty:** Environment

**Faculty Council Motion Number:** FEFC 2023041308

**Faculty Council Approval Date:** April 13, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** n/a

**Senate Committee on Indigenous Initiatives Meeting Date:** n/a

7. **Other Information**

**Attachment Pages:** 0 pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.09

**Moved by:** Kathy Lewis

**Seconded by:** Kriston Rennie

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course GEOG 224-3 World Regions: Inuit Nunangat be approved as follows:

**A. Description of the Course** Inuit Nunangat, the Inuit homeland, spans the four Inuit land settlement regions in the Canadian Arctic, and encompasses nearly one third of Canada's landmass and entire arctic coastline. This course examines the evolution of Inuit Nunangat from its early occupation to the social, economic, political and other issues of concern to Inuit in relation to their homeland, Canada and the world.

1. **Proposed semester of first offering:** January 2024
2. **Academic Program:** Geography Program
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** GEOG 224-3
4. **Course Title:** World Regions: Inuit Nunangat
5. **Goal(s) of Course:**

The course builds on two Geography Program strengths – expertise in the Arctic and teaching via regionally focused courses. This will expand our regional offerings.

**6. Calendar Course Description:**

This course examines the evolution of Inuit Nunangat, the Inuit homeland in the Canadian Arctic, from its early occupation to the present. Social, economic, political, and other issues of concern to Inuit are examined. We use historical, political, ecological, and geographical approaches to understand how Inuit Nunangat came to be, and to analyze the processes that affect this unique region.

7. **Credit Hours:**   3   credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\*        No   X  

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:   #

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as “3” and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
“This course may be repeated to a maximum of XX credit hours if the material is substantially different.”

b) **Is variable credit available for this course?** Yes \_\_\_\_\_ No X

Variable credit is denoted by the following examples:

- i) “**3-6**”: in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3-6).
- ii) “**3,6**”: in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3,6).

**8. Contact Hours (per week):**

Lecture	<u>3</u>	Seminar	_____
Laboratory	_____	Other (please specify)	_____

9. Prerequisites (taken prior): None

10. Prerequisites with concurrency (taken prior or simultaneously): None

11. Co-requisites (must be taken simultaneously): None

12. Preclusions: None

13. Course Equivalencies: None

14. Grade Mode: NORMAL (i.e., alpha grade)

15. Course to be offered: each semester \_\_\_\_\_  
each year \_\_\_\_\_  
alternating years X

16. Proposed text / readings: None

**B. Significance Within Academic Program**

Canadian Arctic-focused regional course. It is the only Canadian Arctic-focused regional course at UNBC.

1. Anticipated enrolment 40

2. If there is a proposed enrolment limit, state the limit and explain: No limit

3. Required for: Major: \_\_\_\_\_ Minor: \_\_\_\_\_ Other: \_\_\_\_\_

4. Elective in: Major: Geography BA Minor: Human Geography Other: \_\_\_\_\_

5. Course required by another major/minor: None

6. Course required or recommended by an accrediting agency: None

7. Toward what degrees will the course be accepted for credit? Geography BA
8. What other courses are being proposed within the Program this year? GEOG 225-3 Global Environmental Change
9. What courses are being deleted from the Program this year? GEOG 222-3 World Regions: Russia

**C. Relation to Other Program Areas**

1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance: None
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not:
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No \_\_\_\_\_
5. In offering this course, will UNBC require facilities or staff at other institutions?  
Yes \_\_\_\_\_ No  X

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?  
Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.
  - i. Faculty Staffing: None
  - ii. Space (classroom, laboratory, storage, etc.): None
  - iii. Library Holdings: None
  - iv. Computer (time, hardware, software): None

**E. Additional Attached Materials Library Holdings Form**

**F. Other Considerations**

- 1. **First Nations Content\*:** Yes\*\*   X   No             
*\*Whether a new course has First Nations content is to be determined by the relevant Faculty Council(s).*

**\*\*If "yes,"** refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** Reflects the scholarly expertise of Dr. Tristan Pearce in the Arctic
- 3. **Attachment Pages (in addition to required "Library Holdings" Form):**   0   pages

**G. Authorization**

**SCCC Reviewed:** March 20, 2023

- 1. **Faculty(ies):** Environment
- 2. **Faculty Council Motion Number(s):** FEFC 2023041309
- 3. **Faculty Council Approval Date(s):** April 13, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** n/a
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** n/a

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.10

**Moved by:** Kathy Lewis

**Seconded by:** Kriston Rennie

**Committee Decision:** CARRIED

**Approved by SCAAF:**   May 17, 2023    
Date

  
Chair's Signature

**For recommendation to**   ✓  , or information of            Senate.

Motion Number (assigned by S-202305.12  
Steering Committee of Senate): \_\_\_\_\_

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### NEW COURSE APPROVAL MOTION FORM

**Motion:** That the new course GEOG 225-3 Global Environmental Change be approved as follows:

**A. Description of the Course** Global environmental change is the most pressing challenge of our time. This course offers a global-to-local framework for understanding present and future risks, and explores the potential for place-based and science-informed public policy responses to this challenge.

1. **Proposed semester of first offering:** January 2024
2. **Academic Program:** Geography Program
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** GEOG 225-3
4. **Course Title:** Global Environmental Change
5. **Goal(s) of Course:** The course builds on Geography Program strengths in human-environment relations, place-based policy, and the integration of evidence and approaches from the physical and social sciences.
6. **Calendar Course Description:**

Global environmental sustainability is one of the monumental challenges of our modern world. In this course, students tackle two central questions: What is global-to-local environmental sustainability, and how can we achieve it? A problem-solving approach is emphasized, especially regarding the interaction between science and public policy. Sustainability issues are investigated theoretically and through specific case studies.

7. **Credit Hours:**   3   credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No   X  

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:   #  

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct

number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

b) **Is variable credit available for this course?** Yes \_\_\_\_\_ No X

Variable credit is denoted by the following examples:

- i) "**3-6**": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3-6).
- ii) "**3,6**": in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3,6).

**8. Contact Hours (per week):**

Lecture 3 Seminar \_\_\_\_\_  
Laboratory \_\_\_\_\_ Other (please specify) \_\_\_\_\_

**9. Prerequisites (taken prior):** None

**10. Prerequisites with concurrency (taken prior or simultaneously):** None

**11. Co-requisites (must be taken simultaneously):** None

**12. Preclusions:** ENVS 225-3, INTS 225-3, NREM 225-3

**13. Course Equivalencies:** INTS 225-3

**14. Grade Mode:** NORMAL (i.e., alpha grade)

**15. Course to be offered:** each semester \_\_\_\_\_  
each year \_\_\_\_\_  
alternating years X

**16. Proposed text / readings:** None

**B. Significance Within Academic Program**

Canadian Arctic-focused regional course. It is the only Canadian Arctic-focused regional course at UNBC.

**1. Anticipated enrolment** 40

**2. If there is a proposed enrolment limit, state the limit and explain:** No limit

**3. Required for:** Major: \_\_\_\_\_ Minor: \_\_\_\_\_ Other: \_\_\_\_\_

**4. Elective in:** Major: Geography BA Minor: Human Geography Other: \_\_\_\_\_

**5. Course required by another major/minor:**

Joint Major in ANTH&GEOG, Joint Major in GEOG&POLS

**6. Course required or recommended by an accrediting agency:** None



7. Toward what degrees will the course be accepted for credit? Geography BA
8. What other courses are being proposed within the Program this year? GEOG 224 World Regions: Inuit Nunangat
9. What courses are being deleted from the Program this year? GEOG 222-3 World Regions: Russia

**C. Relation to Other Program Areas**

1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance: INTS 225 (cross-listed), NREM 225 (to be deleted)
2. Is a preclusion required? Yes  No
3. If there is an overlap, and no preclusion is required, please explain why not:
4. Has this overlap been discussed with the Program concerned? Yes  No
5. In offering this course, will UNBC require facilities or staff at other institutions?  
Yes  No

If yes, please describe requirements: none

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?  
Yes  No

If “yes,” please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.
  - i. Faculty Staffing: None
  - ii. Space (classroom, laboratory, storage, etc.): None
  - iii: Library Holdings: None
  - iv. Computer (time, hardware, software): None

**E. Additional Attached Materials Library Holdings Form**



**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to GEOG 222-3, World Regions: Russia on page 256 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The faculty member who normally delivers the course has retired and the course is being deleted.
3. **Implications of the changes for other programs, etc., if applicable:** This course appears as a degree requirement elective in three joint majors (Anthropology and Geography, Economics and Global and International Studies, Global and International Studies and Political Science), one major (Global and International Studies) and one Minor (Russian Studies). The respective chairs or committees (see below) were consulted by email on 8 February 2023.

Names of individuals consulted:

Dr. Jalil Safaei Boroojeny, Chair of Economics (8 February 2023)

Dr. Angele Smith, Chair of Anthropology (21 February 2023)

Dr. Jacqueline Holler, Chair of Global and International Studies (8 February 2023)

Dr. Gary Wilson, Chair of Political Science (8 February 2023)

4. **Reproduction of current Calendar entry for the item to be revised:**

**GEOG 222-3 World Regions: Russia** This course explores the interaction of physical and human landscapes of Russia. Special attention is paid to nationality issues, energy and other resource developments, the changing state of environmental management, and Russia's shifting geopolitical role in the world.

*Prerequisites:* None

5. **Proposed revision with changes underlined and deletions indicated clearly using "strikethrough":**

~~**GEOG 222-3 World Regions: Russia** This course explores the interaction of physical and human landscapes of Russia. Special attention is paid to nationality issues, energy and other resource developments, the changing state of environmental management, and Russia's shifting geopolitical role in the world.~~

~~*Prerequisites:* None~~

6. **Authorization:**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Geography

**Faculty:** Environment

**Faculty Council Motion Number:** FEFC 2023041311

**Faculty Council Approval Date:** April 13, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** n/a

**Senate Committee on Indigenous Initiatives Meeting Date:** n/a

7. **Other Information**

**Attachment Pages:** 0 pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.12

**Moved by:** Kathy Lewis

**Seconded by:** Kriston Rennie

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by S-202305.14  
Steering Committee of Senate): \_\_\_\_\_

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the ENVS 230-3 Introduction to Environmental Policy course prerequisite, on page 244 in the PDF calendar accessible on the UNBC web page of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** As now taught the prerequisite is no longer necessary
3. **Implications of the changes for other programs, etc., if applicable:** The change will make the course more accessible to other degrees.
4. **Reproduction of current Calendar entry for the item to be revised:**

ENVS 230-3 Introduction to Environmental Policy This course provides an introduction to the fundamentals of the environmental policy process in Canada. Through the use of lectures, case studies, and individual research, students have the opportunity to learn about the key actors, institutions, and issues involved with the design and implementation of environmental policy, as well as the politics and power dynamics the characterize the 'real world' of policy.

Prerequisites: POLS 100-3 or permission of the instructor

5. **Proposed revision with changes underlined and deletions indicated clearly using "strikethrough":**

ENVS 230-3 Introduction to Environmental Policy This course provides an introduction to the fundamentals of the environmental policy process in Canada. Through the use of lectures, case studies, and individual research, students have the opportunity to learn about the key actors, institutions, and issues involved with the design and implementation of environmental policy, as well as the politics and power dynamics that characterize the 'real world' of policy.

Prerequisites: ~~POLS 100-3 or permission of the instructor~~

6. **Authorization:** (Please ignore — Section to be completed by Committee Recording Secretaries)

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** Environmental and Sustainability Studies

**Faculty:** Faculty of Environment

**Faculty Council Motion Number:** FEFC 2023041313

**Faculty Council Approval Date:** April 13, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** N/A

**Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**7. Other Information**

**Attachment Pages:**   0   pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.13

**Moved by:** Kriston Rennie

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**   May 17, 2023    
**Date**

  
**Chair's Signature**

**For recommendation to   ✓  , or information of \_\_\_\_\_ Senate.**

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the BA Major in Environmental & Sustainability Studies degree requirements, on page 119-121 in the PDF calendar accessible on the UNBC web page) of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** 1. We are adding a new Area of Specialization; 2. Environmental & Sustainability Studies no longer has the resources to offer ENVS 440 as a required course and are removing it as a requirement across its Major and Joint Majors.
3. **Implications of the changes for other programs, etc., if applicable:** None, all courses utilized in the new Area of Specialization have agreed to have the courses used.\
4. **Reproduction of current Calendar entry for the item to be revised:**

Environmental and Sustainability Studies (BA Program)  
Tara Lynne Clapp, Associate Professor and Chair  
Annie Booth, Professor  
Zoë Meletis, Associate Professor  
Sinead Earley, Assistant Professor  
Website: [www.unbc.ca/environmental-studies](http://www.unbc.ca/environmental-studies)  
Major in Environmental and Sustainability Studies

The Bachelor of Arts in Environmental and Sustainability Studies emphasizes a social science and humanities perspective on environmental and sustainability challenges and opportunities. The program provides a strong philosophical, social and scientific basis for understanding the full diversity of environmental and sustainability issues, and positions students to be effective agents of social and environmental innovation, who can promote mitigation of, and/or adaptation to, environmental challenges. An understanding of the foundations of environmental citizenship is emphasized. The degree offers students substantial opportunity for experiential learning through a number of courses.

Students must complete the common degree requirements, the requirements of the Area of Specialization, and elective credit hours in any subject as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Undergraduate Academic Regulation 15).

Program Requirements  
Lower-Division Requirement  
100 Level  
BIOL 110-3 Introductory Ecology  
CHEM 110-3 Chemistry of Everyday Life  
or CHEM 100-3 General Chemistry I  
or ENSC 201-3 Weather and Climate  
or ENSC 202-3 Introduction to Aquatic Systems  
or PHYS 150-3 Physics for Future Leaders  
ENVS 101-3 Introduction to Environmental Citizenship

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

or ENPL 104-3 Introduction to Planning

POLS 100-3 Contemporary Political Issues

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience.

200 Level

ENGL 270-3 Expository Writing

or ENGL 271-3 Creative Writing

ENVS 210-3 Environmental Perspectives

ENVS 230-3 Introduction to Environmental Policy

GEOG 202-3 Resources, Economies and Sustainability

or ORTM 200-3 Sustainable Recreation and Tourism

GEOG 204-3 Introduction to GIS

Upper-Division Requirement

300 Level

ENVS 309-3 Gender, Environment and Sustainability

ENVS 326-3 Public Engagement for Sustainability

ENVS 339-3 Low-Carbon Transitions: Theory and Practice

NREM 303-3 Aboriginal Perspectives on Land and Resource Management

400 Level

ENPL 401-3 Environmental Law

ENVS 414-3 Environmental and Professional Ethics

ENVS 431-3 Global Environmental Policy: Energy and Climate

ENVS 440-(2-6) Internship

ENVS 480-3 Environmental & Sustainability Studies Senior Seminar

GEOG 401-3 Tenure, Conflict and Resource Geography

or FNST 306-3 Indigenous Women: Perspectives

or FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power

or FNST 416-3 International Perspective

or FNST 444-3 Experiential Course in First Nations Studies

or GEOG 306-3 Critical Development Geographies

GEOG 420-3 Environmental Justice

or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

PSYC 408-3 Environmental Problems and Human Behaviour

or ANTH 312-3 Human Adaptability and Environmental Stress

or ANTH 405-3 Landscapes, Place and Culture

or ANTH 413-(3-6) Environmental Anthropology

Areas of Specialization

Students must choose one of the following areas of specialization. Courses used to fulfill major requirements above may not be used to satisfy an Area of Specialization requirement.

1. Global Environmental Studies
2. Communities and Environmental Citizenship
3. Natural Resource Management
4. Indigenous Perspectives

Global Environmental Studies

Required

GEOG 206-3 Social Geography

INTS 100-3 Introduction to Global Studies

Eight of the following:

GEOG 301-3 Cultural Geography

GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making (if NOT taken as a requirement for the major)

GEOG 306-3 Critical Development Geographies

GEOG 307-3 Changing Arctic: Human and Environmental System

GEOG 426-3 Geographies of Culture, Rights and Power

Any INTS 3-credit language course



INTS 210-3 Globalizations  
NORS 101-3 Introduction to Circumpolar North  
NORS 311-3 Lands and Environments of the Circumpolar North 1  
NORS 331-3 Contemporary Issues of the Circumpolar North Communities and Environmental Citizenship  
ENPL 301-3 Sustainable Communities: Structure and Sociology  
or POLS 332 Community Development  
GEOG 206-3 Social Geography

Seven of the following:

COMM 100-3 Introduction to Canadian Business  
COMM 230-3 Organizational Behaviour  
ENPL 205-3 Environment and Society  
ENPL 304-3 Mediation, Negotiation and Public Participation  
ENPL 313-3 Rural Community Economic Development  
FNST 217-3 Contemporary Challenges Facing Aboriginal Communities  
FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power  
GEOG 209-3 Migration and Development  
GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making  
GEOG 307-3 Changing Arctic: Human and Environmental Systems  
GEOG 308-3 Health Geography  
NREM 110-3 Food, Agriculture, and Society  
ORTM 100-3 Foundations of Outdoor Recreation and Tourism  
ORTM 200-3 Sustainable Recreation and Tourism  
POLS 316-3 Municipal Government and Politics  
Natural Resource Management

Students should note that some of these courses have pre-requisites. It is the student's responsibility to ensure they have completed these pre-requisites.

Required

NREM 100-3 Field Skills  
NREM 101-3 Introduction to Natural Resources Management and Conservation  
NREM 209-3 The Practice of Conservation  
ORTM 100-3 Foundations of Outdoor Recreation and Tourism

One of the following:

FNST 203-3 Introduction to Traditional Ecological Knowledge  
GEOG 205-3 Cartography and Geomatics  
NREM 203-3 Resource Inventories and Measurements  
NREM 210-3 Integrated Resource Management  
ORTM 200-3 Sustainable Recreation and Tourism

Five of the following:

ENPL 304-3 Mediation, Negotiation and Public Participation  
NREM 333-3 Field Applications in Resource Management  
NREM 400-3 Natural Resources Planning  
NREM 409-3 Conservation Planning  
ORTM 300-3 Recreation and Tourism Impacts  
ORTM 305-3 Protected Areas Planning and Management  
ORTM 400-3 Conservation Area Design and Management  
POLS 315-3 Contemporary Issues in the Circumpolar World

Indigenous Perspectives

Three of the following:

ANTH 206-3 Ethnography in Northern BC  
FNST 217-3 Contemporary Challenges Facing Aboriginal Communities  
FNST 249-3 Aboriginal Resource Planning  
GEOG 206-3 Social Geography

Six of the following:

BIOL 350-3 Ethnobotany  
ENPL 208-3 First Nations Community and Environmental Planning  
ENPL 409-4 Advanced First Nations Community and Environmental Planning

Any FNST 3-credit language course  
Any FNST 3-credit culture course  
FNST 300-3 Research Methods in First Nations Studies  
FNST 303-3 First Nations Religion and Philosophy  
FNST 306-3 Indigenous Women: Perspectives  
FNST 350-3 Law and Indigenous Peoples  
FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power  
FNST 416-3 International Perspective  
FNST 444-3 Experiential Course in First Nations Studies  
FNST 451-3 Traditional Use Studies  
GEOG 301-3 Cultural Geography  
GEOG 403-3 First Nations and Indigenous Geographies  
HIST 390-3 History of Indigenous People of Canada  
Electives and Academic Breadth

Elective credit hours are required as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Electives may be at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

**5. Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

Environmental and Sustainability Studies (BA Program)

Tara Lynne Clapp, Associate Professor and Chair

Annie Booth, Professor

Zoë Meletis, Associate Professor

Sinead Earley, Assistant Professor

Website: [www.unbc.ca/environmental-studies](http://www.unbc.ca/environmental-studies)

Major in Environmental and Sustainability Studies

The Bachelor of Arts in Environmental and Sustainability Studies emphasizes a social science and humanities perspective on environmental and sustainability challenges and opportunities. The program provides a strong philosophical, social and scientific basis for understanding the full diversity of environmental and sustainability issues, and positions students to be effective agents of social and environmental innovation, who can promote mitigation of, and/or adaptation to, environmental challenges. An understanding of the foundations of environmental citizenship is emphasized. The degree offers students substantial opportunity for experiential learning through a number of courses.

Students must complete the common degree requirements, the requirements of the Area of Specialization, and elective credit hours in any subject as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Undergraduate Academic Regulation 15).

Program Requirements

Lower-Division Requirement

100 Level

BIOL 110-3 Introductory Ecology

CHEM 110-3 Chemistry of Everyday Life

or CHEM 100-3 General Chemistry I

or ENSC 201-3 Weather and Climate

or ENSC 202-3 Introduction to Aquatic Systems

or PHYS 150-3 Physics for Future Leaders

ENVS 101-3 Introduction to Environmental Citizenship

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

or ENPL 104-3 Introduction to Planning

POLS 100-3 Contemporary Political Issues

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience.

200 Level

ENGL 270-3 Expository Writing

or ENGL 271-3 Creative Writing

ENVS 210-3 Environmental Perspectives

ENVS 230-3 Introduction to Environmental Policy

GEOG 202-3 Resources, Economies and Sustainability

or ORTM 200-3 Sustainable Recreation and Tourism

GEOG 204-3 Introduction to GIS

Upper-Division Requirement

300 Level

ENVS 309-3 Gender, Environment and Sustainability

ENVS 326-3 Public Engagement for Sustainability

ENVS 339-3 Low-Carbon Transitions: Theory and Practice

NREM 303-3 Aboriginal Perspectives on Land and Resource Management

400 Level

ENPL 401-3 Environmental Law

ENVS 414-3 Environmental and Professional Ethics

ENVS 431-3 Global Environmental Policy: Energy and Climate

**~~ENVS 440-(2-6) Internship~~**

ENVS 480-3 Environmental & Sustainability Studies Senior Seminar

GEOG 401-3 Tenure, Conflict and Resource Geography

or FNST 306-3 Indigenous Women: Perspectives

or FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power

or FNST 416-3 International Perspective

or FNST 444-3 Experiential Course in First Nations Studies

or GEOG 306-3 Critical Development Geographies

GEOG 420-3 Environmental Justice

or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

PSYC 408-3 Environmental Problems and Human Behaviour

or ANTH 312-3 Human Adaptability and Environmental Stress

or ANTH 405-3 Landscapes, Place and Culture

or ANTH 413-(3-6) Environmental Anthropology

Areas of Specialization

Students must choose one of the following areas of specialization. Courses used to fulfill major requirements above may not be used to satisfy an Area of Specialization requirement.

1. Global Environmental Studies
2. Communities and Environmental Citizenship
3. Natural Resource Management
4. Indigenous Perspectives
5. Justice, Equity, Diversity, Inclusion and Indigeneity

**Global Environmental Studies**

Required

GEOG 206-3 Social Geography

INTS 100-3 Introduction to Global Studies

Eight of the following:

GEOG 301-3 Cultural Geography

GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making (if NOT taken as a requirement for the major)

GEOG 306-3 Critical Development Geographies

GEOG 307-3 Changing Arctic: Human and Environmental System

GEOG 426-3 Geographies of Culture, Rights and Power

Any INTS 3-credit language course

INTS 210-3 Globalizations

NORS 101-3 Introduction to Circumpolar North

NORS 311-3 Lands and Environments of the Circumpolar North 1

NORS 331-3 Contemporary Issues of the Circumpolar North

### **Communities and Environmental Citizenship**

ENPL 301-3 Sustainable Communities: Structure and Sociology

or POLS 332 Community Development

GEOG 206-3 Social Geography

Seven of the following:

COMM 100-3 Introduction to Canadian Business

COMM 230-3 Organizational Behaviour

ENPL 205-3 Environment and Society

ENPL 304-3 Mediation, Negotiation and Public Participation

ENPL 313-3 Rural Community Economic Development

FNST 217-3 Contemporary Challenges Facing Aboriginal Communities

FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power

GEOG 209-3 Migration and Development

GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

GEOG 307-3 Changing Arctic: Human and Environmental Systems

GEOG 308-3 Health Geography

NREM 110-3 Food, Agriculture, and Society

ORTM 100-3 Foundations of Outdoor Recreation and Tourism

ORTM 200-3 Sustainable Recreation and Tourism

POLS 316-3 Municipal Government and Politics

### **Natural Resource Management**

Students should note that some of these courses have pre-requisites. It is the student's responsibility to ensure they have completed these pre-requisites.

NREM 100-3 Field Skills

NREM 101-3 Introduction to Natural Resources Management and Conservation

NREM 209-3 The Practice of Conservation

ORTM 100-3 Foundations of Outdoor Recreation and Tourism

One of the following:

FNST 203-3 Introduction to Traditional Ecological Knowledge

GEOG 205-3 Cartography and Geomatics

NREM 203-3 Resource Inventories and Measurements

NREM 210-3 Integrated Resource Management

ORTM 200-3 Sustainable Recreation and Tourism

Five of the following:

ENPL 304-3 Mediation, Negotiation and Public Participation

NREM 333-3 Field Applications in Resource Management

NREM 400-3 Natural Resources Planning

NREM 409-3 Conservation Planning

ORTM 300-3 Recreation and Tourism Impacts

ORTM 305-3 Protected Areas Planning and Management

ORTM 400-3 Conservation Area Design and Management

POLS 315-3 Contemporary Issues in the Circumpolar World

### **Indigenous Perspectives**

Three of the following:

ANTH 206-3 Ethnography in Northern BC

FNST 217-3 Contemporary Challenges Facing Aboriginal Communities

FNST 249-3 Aboriginal Resource Planning

GEOG 206-3 Social Geography

Six of the following:

BIOL 350-3 Ethnobotany

ENPL 208-3 First Nations Community and Environmental Planning

ENPL 409-4 Advanced First Nations Community and Environmental Planning

Any FNST 3-credit language course

Any FNST 3-credit culture course

FNST 300-3 Research Methods in First Nations Studies

FNST 303-3 First Nations Religion and Philosophy

FNST 306-3 Indigenous Women: Perspectives

FNST 350-3 Law and Indigenous Peoples

FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power

FNST 416-3 International Perspective

FNST 444-3 Experiential Course in First Nations Studies

FNST 451-3 Traditional Use Studies

GEOG 301-3 Cultural Geography

GEOG 403-3 First Nations and Indigenous Geographies

HIST 390-3 History of Indigenous People of Canada

**Justice, Equity, Diversity, Inclusion & Indigeneity**

**GEOG 203 - Canada: Places, Cultures and Identities**

**WMST 303 - Lesbian and Bisexual Lives**

**One of the following:**

**ANTH 401 - Anthropological Perspectives on Inequality**

**GEOG 420 – Environmental Justice (if NOT taken as part of the Major’s requirements)**

**POLS 413 - Democracy and Diversity**

**Two of the following**

**FNST 306 - Indigenous Women: Perspectives**

**WMST 103 - Introduction to Gender Studies**

**WMST 209 - Gender and Cultural Studies: An Introduction**

**Three of the following:**

**ENPL 208 - First Nations Community and Environmental Planning**

**FNST 217 - Contemporary Challenges Facing Aboriginal Communities**

**FNST 312 - Image of the Indian in Film**

**FNST 350 - Law and Indigenous Peoples**

**One of**

**GEOG 209 - Migration and Development**

**GEOG 306 - Critical Development Geographies**

**POLS 377 Politics of Climate Change**

Electives and Academic Breadth

Elective credit hours are required as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Electives may be at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

**6. Authorization: (Please ignore — Section to be completed by Committee Recording Secretaries)**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** SPS/ESS

**Faculty:** Faculty of Environment

**Faculty Council Motion Number:** FEFC 2023:04:13:14

**Faculty Council Approval Date:** April 13,2023

**Senate Committee on First Nations and Aboriginal Peoples Motion Number:**

**Senate Committee on First Nations and Aboriginal Peoples Meeting Date:**

**7. Other Information**

**Attachment Pages:**    #    pages (fill in number of pages, or indicate "0" if there are no attachments)

**THE MOTION FORM IS NOW COMPLETE — PLEASE DISREGARD THE BLOCK BELOW**



**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.14

**Moved by:** Kriston Rennie

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the Joint Major in English and Environmental and Sustainability Studies (BA), on page 99-100 of the PDF calendar accessible on the UNBC web page of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** Environmental & Sustainability Studies no longer has the resources to offer ENVS 440 as a required course and are removing it as a requirement across its Major and Joint Majors. English has indicated that it is more practical to eliminate ENGL 444 (Internship) as an option as well since the course is rarely offered.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

Joint Major in English and Environmental and Sustainability Studies (BA)  
The English and Environmental and Sustainability Studies joint major equips students with communication skills and knowledge of environmental issues, regulations and policies. The joint major prepares students to have a positive influence on the environment through written and other forms of expression. This joint major is of particular interest to students who wish to pursue a career in environmental writing, creative non-fiction, science writing and/or journalism.

#### Program Requirements

##### Lower-Division Requirement

BIOL 110-3 Introductory Ecology

ENGL 104-3 Introduction to Film

ENGL 209-3 Introduction to Television Studies English

ENGL 283-3 Introduction to Romantic Literature

ENVS 101-3 Introduction to Environmental Citizenship

ENVS 210-3 Environmental Perspectives

ENVS 230-3 Introduction to Environmental Policy

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

GEOG 202-3 Resources, Economies and Sustainability

or ORTM 200-3 Sustainable Recreation and Tourism

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience.

Two of the following:

ENGL 100-3 Introduction to Literary Structures

ENGL 120-3 Introduction to Canadian Indigenous Literatures

ENGL 270-3 Expository Writing

ENGL 271-3 Introduction to Creative Writing

One of the following:

ENGL 211-3 Survey of English Literature I

ENGL 284-3 Introduction to Victorian Literature

One of the following:

GEOG 206-3 Social Geography

INTS 100-3 Introduction to Global Studies

NREM 101-3 Introduction to Natural Resources Management and Conservation

Upper-Division Requirement

The following nine courses (27 credit hours) at the 300 or 400 level:

ENVS 309-3 Gender, Environment and Sustainability

ENVS 326-3 Public Engagement for Sustainability

ENVS 414-3 Environmental and Professional Ethics

ENVS 431-3 Global Environmental Policy: Energy and Climate

ENVS 440-(2-6) Internship

or ENGL 444-(2-6) Internship

ENVS 480-3 Environmental & Sustainability Studies Senior Seminar

GEOG 420-3 Environmental Justice

or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

HIST 360-3 An Introduction to Environmental History

NREM 303-3 Aboriginal Perspectives on Land and Resource Management

or FNST 304-3 Indigenous Environmental Philosophy

PSYC 408-3 Environmental Problems and Human Behaviour

or ANTH 312-3 Human Adaptability and Environmental Stress

or ANTH 405-3 Landscapes, Place and Culture

or ANTH 413-(3-6) Environmental Anthropology

Eight courses (24 credit hours) of English courses at the 300 or 400 level:

One of the following:

ENGL 309-3 Intermediate Studies in Film or Television

ENGL 331-3 Genres in Canadian Literature

ENGL 350-3 Comparative Literature

ENGL 383-3 Romantic Literature

ENGL 384-3 Victorian Literature

Two of the following:

ENGL 430-3 Special Topics in Canadian Literature

ENGL 431-3 Northern BC Literature

ENGL 480-3 Science Fiction

ENGL 483-3 Special Topics in Romantic Literature

ENGL 486-3 Literature of the Fantastic

ENGL 493-(2-6) Cultural Studies

Five additional English courses (15 credit hours) are required to ensure the fulfillment of the 24 credit hour upper-division requirement in English. Two courses may be chosen from the following list of English ancillary courses:

WMST 306-3 Indigenous Women: Perspectives

WMST 411-3 Contemporary Feminist Theories

One of the following theory courses:

ENGL 200-3 Gender and Literary Theory

ENGL 300-3 Theory

ENGL 400-3 Contemporary Theory

Elective and Academic Breadth

Elective credit hours are required as necessary to ensure a completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Electives may be at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## **5. Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

Joint Major in English and Environmental and Sustainability Studies (BA)

The English and Environmental and Sustainability Studies joint major equips students with communication

skills and knowledge of environmental issues, regulations and policies. The joint major prepares students to have a positive influence on the environment through written and other forms of expression. This joint major is of particular interest to students who wish to pursue a career in environmental writing, creative non-fiction, science writing and/or journalism.

#### Program Requirements

##### Lower-Division Requirement

BIOL 110-3 Introductory Ecology

ENGL 104-3 Introduction to Film

ENGL 209-3 Introduction to Television Studies English

ENGL 283-3 Introduction to Romantic Literature

ENVS 101-3 Introduction to Environmental Citizenship

ENVS 210-3 Environmental Perspectives

ENVS 230-3 Introduction to Environmental Policy

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

GEOG 202-3 Resources, Economies and Sustainability

or ORTM 200-3 Sustainable Recreation and Tourism

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience.

Two of the following:

ENGL 100-3 Introduction to Literary Structures

ENGL 120-3 Introduction to Canadian Indigenous Literatures

ENGL 270-3 Expository Writing

ENGL 271-3 Introduction to Creative Writing

One of the following:

ENGL 211-3 Survey of English Literature I

ENGL 284-3 Introduction to Victorian Literature

One of the following:

GEOG 206-3 Social Geography

INTS 100-3 Introduction to Global Studies

NREM 101-3 Introduction to Natural Resources Management and Conservation

##### Upper-Division Requirement

The following nine courses (27 credit hours) at the 300 or 400 level:

ENVS 309-3 Gender, Environment and Sustainability

ENVS 326-3 Public Engagement for Sustainability

ENVS 414-3 Environmental and Professional Ethics

ENVS 431-3 Global Environmental Policy: Energy and Climate

**ENVS 440 (2-6) Internship**

**or ENGL 444 (2-6) Internship**

ENVS 480-3 Environmental & Sustainability Studies Senior Seminar

GEOG 420-3 Environmental Justice

or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

HIST 360-3 An Introduction to Environmental History

NREM 303-3 Aboriginal Perspectives on Land and Resource Management

or FNST 304-3 Indigenous Environmental Philosophy

PSYC 408-3 Environmental Problems and Human Behaviour

or ANTH 312-3 Human Adaptability and Environmental Stress

or ANTH 405-3 Landscapes, Place and Culture

or ANTH 413-(3-6) Environmental Anthropology

Eight courses (24 credit hours) of English courses at the 300 or 400 level:

One of the following:

ENGL 309-3 Intermediate Studies in Film or Television

ENGL 331-3 Genres in Canadian Literature

ENGL 350-3 Comparative Literature

ENGL 383-3 Romantic Literature

ENGL 384-3 Victorian Literature

Two of the following:

ENGL 430-3 Special Topics in Canadian Literature

ENGL 431-3 Northern BC Literature

ENGL 480-3 Science Fiction

ENGL 483-3 Special Topics in Romantic Literature

ENGL 486-3 Literature of the Fantastic

ENGL 493-(2-6) Cultural Studies

Five additional English courses (15 credit hours) are required to ensure the fulfillment of the 24 credit hour upper-division requirement in English. Two courses may be chosen from the following list of English ancillary courses:

WMST 306-3 Indigenous Women: Perspectives

WMST 411-3 Contemporary Feminist Theories

One of the following theory courses:

ENGL 200-3 Gender and Literary Theory

ENGL 300-3 Theory

ENGL 400-3 Contemporary Theory

Elective and Academic Breadth

Elective credit hours are required as necessary to ensure a completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Electives may be at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

**6. Authorization: (Please ignore — Section to be completed by Committee Recording Secretaries)**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** School of Planning & Sustainability, Department of English

**Faculty:** Faculty of Environment; Faculty of Indigenous Studies, Social Sciences and Humanities

**Faculty Council Motion Number:** FEFC 2023041315

**Faculty Council Approval Date:** April 13, 2023

**Faculty Council Motion Number:** FISSSHFC.2023.04.20.04

**Faculty Council Approval Date:** April 20, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** N/A

**Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**7. Other Information**

**Attachment Pages:**   0   pages (fill in number of pages, or indicate "0" if there are no attachments)

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.15

**Moved by:** Kriston Rennie

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the Joint Major in Environmental and Sustainability Studies and Political Science (BA), on page 122 of the PDF calendar accessible on the UNBC web page of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** Environmental & Sustainability Studies no longer has the resources to offer ENVS 440 as a required course and are removing it as a requirement across its Major and Joint Majors. Political Science has indicated it is more practical to eliminate the either/or option all together in the degree under the circumstances.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

Joint Major in Environmental and Sustainability Studies and Political Science (BA)

The Joint Major in Environmental and Sustainability Studies and Political Science is for students who want both a broad understanding of environmental issues and the political knowledge needed to respond to those issues. The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Environmental Studies and Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

BIOL 110-3 Introductory Ecology

or NREM 101-3 Introduction to Natural Resources Management and Conservation

ENVS 101-3 Introduction to Environmental Citizenship

ENVS 210-3 Environmental Perspectives

ENVS 230-3 Introduction to Environmental Policy

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

GEOG 202-3 Resources, Economies and Sustainability

or ORTM 200-3 Sustainable Recreation and Tourism

GEOG 204-3 Introduction to GIS

INTS 100-3 Introduction to Global Studies

POLS 100-3 Contemporary Political Issues

POLS 200-3 Canadian Government and Politics

POLS 202-3 Canada in Comparative Perspective

POLS 270-3 Political Philosophy: Antiquity to Early Modernity

Upper-Division Requirement

ANTH 405-3 Landscapes, Place and Culture

or ANTH 413-(3-6) Environmental Anthropology

ENPL 401-3 Environmental Law

ENVS 309-3 Gender, Environment and Sustainability

or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

or GEOG 420-3 Environmental Justice

ENVS 326-3 Public Engagement For Sustainability  
 ENVS 414-3 Environmental and Professional Ethics  
 ENVS 431-3 Global Environmental Policy: Energy and Climate  
 ENVS 440-(2-6) Internship  
 or POLS 440-3 Internship I  
 ENVS 480-3 Environmental and Sustainability Studies Senior Seminar  
 NREM 303-3 Aboriginal Perspectives on Land and Resource Management  
 NREM 306-3 Society, Policy and Administration  
 or POLS 344-3 Society, Policy and Administration of Natural Resources  
 POLS 302-3 How Government Works  
 or POLS 320-3 Canadian Politics and Policy  
 POLS 303-3 Democracy and Democratization  
 POLS 370-3 Political Philosophy: Early Modernity to Post-Modernity  
 or POLS 372-3 Theories of Justice  
 POLS 400-(3-6) Classics in Political Philosophy  
 or POLS 472-3 Seminar in Political Philosophy  
 POLS 413-3 Democracy and Diversity  
 or POLS 415-3 Comparative Northern Development  
 PSYC 408-3 Environmental Problems and Human Behaviour  
 or ANTH 312-3 Human Adaptability and Environmental Stressor  
 Elective and Academic Breadth Students must take electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours, including taking any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

**5. Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

Joint Major in Environmental and Sustainability Studies and Political Science (BA)

The Joint Major in Environmental and Sustainability Studies and Political Science is for students who want both a broad understanding of environmental issues and the political knowledge needed to respond to those issues. The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Environmental Studies and Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

BIOL 110-3 Introductory Ecology

or NREM 101-3 Introduction to Natural Resources Management and Conservation

ENVS 101-3 Introduction to Environmental Citizenship

ENVS 210-3 Environmental Perspectives

ENVS 230-3 Introduction to Environmental Policy

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

GEOG 202-3 Resources, Economies and Sustainability

or ORTM 200-3 Sustainable Recreation and Tourism

GEOG 204-3 Introduction to GIS

INTS 100-3 Introduction to Global Studies

POLS 100-3 Contemporary Political Issues

POLS 200-3 Canadian Government and Politics

POLS 202-3 Canada in Comparative Perspective

POLS 270-3 Political Philosophy: Antiquity to Early Modernity

Upper-Division Requirement

ANTH 405-3 Landscapes, Place and Culture

or ANTH 413-(3-6) Environmental Anthropology

ENPL 401-3 Environmental Law

ENVS 309-3 Gender, Environment and Sustainability

or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making

or GEOG 420-3 Environmental Justice

ENVS 326-3 Public Engagement For Sustainability



ENVS 414-3 Environmental and Professional Ethics  
ENVS 431-3 Global Environmental Policy: Energy and Climate  
**ENVS 440-(2-6) Internship**  
**or POLS 440-3 Internship I**  
ENVS 480-3 Environmental and Sustainability Studies Senior Seminar  
NREM 303-3 Aboriginal Perspectives on Land and Resource Management  
NREM 306-3 Society, Policy and Administration  
or POLS 344-3 Society, Policy and Administration of Natural Resources  
POLS 302-3 How Government Works  
or POLS 320-3 Canadian Politics and Policy  
POLS 303-3 Democracy and Democratization  
POLS 370-3 Political Philosophy: Early Modernity to Post-Modernity  
or POLS 372-3 Theories of Justice  
**POLS 377-3 Politics of Climate Change**  
POLS 400-(3-6) Classics in Political Philosophy  
or POLS 472-3 Seminar in Political Philosophy  
POLS 413-3 Democracy and Diversity  
or POLS 415-3 Comparative Northern Development  
PSYC 408-3 Environmental Problems and Human Behaviour  
or ANTH 312-3 Human Adaptability and Environmental Stressor

Elective and Academic Breadth Students must take electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours, including taking any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

**6. Authorization: (Please ignore — Section to be completed by Committee Recording Secretaries)**

**SCCC Reviewed:** March 20, 2023

**Program / Academic / Administrative Unit:** School of Planning & Sustainability, Department of Political Science

**Faculty:** Faculty of Environment; Faculty of Indigenous Studies, Social Sciences and Humanities

**Faculty Council Motion Number:** FEFC 2023041316

**Faculty Council Approval Date:** April 13, 2023

**Faculty Council Motion Number:** FISSSHFC.2023.04.20.05

**Faculty Council Approval Date:** April 20, 2023

**Senate Committee on Indigenous Initiatives Motion Number:** N/A

**Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**7. Other Information**

**Attachment Pages:**   0   pages (fill in number of pages, or indicate "0" if there are no attachments)

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**


**Motion No.:** SCAAF 202305.16

**Moved by:** Kriston Rennie

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the reactivation of NRES 731-3 and NRES 732-3 be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** NRES 731-3 was deleted from the calendar as per Senate motion S-201408.03. NRES 732-3 was parked as per Senate motion S-202004.05. The program wishes to offer these courses again due to faculty changes.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

[2014/15 calendar entry]

**NRES 731-3 Soil Ecology** This course takes an ecological approach to the role of soil organisms in energy flow and biogeochemical cycling, and the contributions of soil organisms and associated processes to ecosystem productivity, sustainability and environmental quality. The habitat, interactions, adaptation and function of organisms in the forest floor, mineral horizons, and at the root-soil interface are studied. Students conduct a research project that employs modern methods to investigate the role of soil organisms in an area pertinent to the course.

*Prerequisites:* Permission of the instructor

[2019/20 calendar entry]

**NRES 732-3 Forest Systems and Management** This course covers the important processes and features of forest systems, with special emphasis on sub-boreal, boreal, and riparian systems. Processes such as tree and forest gas and nutrient exchange, tree growth and acquisition of resources, and the effects and interactions of management practices, pathogens, arthropods, vertebrates, and climate change on forest systems are examined. The course requires each student to complete a 'forest systems' laboratory or field research project with a UNBC faculty member.

*Prerequisites:* Background in forest ecology and silviculture

5. **Proposed revision with changes underlined and deletions indicated clearly using "strikethrough":**

**NRES 731-3 Soil Ecology** This course takes an ecological approach to the role of soil organisms in energy flow and biogeochemical cycling, and the contributions of soil organisms and associated processes to ecosystem productivity, sustainability and environmental quality. The habitat, interactions, adaptation and function of organisms in the forest floor, mineral horizons, and at the root-soil interface are studied. Students conduct a research project that employs modern methods to investigate the role of soil organisms in an area pertinent to the course.

*Prerequisites:* Permission of the instructor

**NRES 732-3 Forest Systems and Management** This course covers the important processes and features of forest systems, with special emphasis on sub-boreal, boreal, and riparian systems. Processes such as tree and forest gas and nutrient exchange, tree growth and acquisition of resources, and the effects and interactions of management practices, pathogens, arthropods, vertebrates, and climate change on forest systems are examined. The course requires each student to complete a 'forest systems' laboratory or field research project with a UNBC faculty member.

*Prerequisites:* Background in forest ecology and silviculture

**6. Authorization:**

**Program / Academic / Administrative Unit:** Ecosystem Science and Management

**Faculty:** Environment

**Faculty Council Motion Number:**

**Faculty Council Approval Date:**

**Senate Committee on Indigenous Initiatives Motion Number:**

**Senate Committee on Indigenous Initiatives Meeting Date:**

**7. Other Information**

**Attachment Pages:**   0   pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.17

**Moved by:** Kriston Rennie

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**   May 17, 2023    
**Date**

  
**Chair's Signature**

**For recommendation to   ✓  , or information of            Senate.**

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the course description for POLS 377-3: Politics of Climate Change, on page 293 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The previous description contained errors.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

**POLS 377-3 Politics of Climate Change** This course introduces students to some of the most intractable political obstacles impeding efforts to address the global climate emergency, and investigates creative political strategies for navigating those obstacles at the local, national, and global levels. Topics include the domestic drivers of national climate change policies; realpolitik and national self interest in international climate negotiations; inequality and the burdens of climate change adaptation; climate politics as a source of conflict; partisan polarization; the rise of liberal populism; and the political psychology of climate passivity and climate change denial.

*Prerequisites: Upper-division standing or permission of the instructor*

5. **Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

**POLS 377-3 Politics of Climate Change** This course introduces students to some of the most intractable political obstacles impeding efforts to address the global climate emergency, and investigates creative political strategies for navigating those obstacles at the local, national, and global levels. Topics include the domestic drivers of national climate change policies; realpolitik and national self interest in international climate negotiations; inequality and the burdens of climate change adaptation; climate politics as a source of conflict; ~~and~~ partisan polarization; ~~the rise of liberal populism~~; and the political psychology of climate passivity and climate change denial.

*Prerequisites: Upper-division standing or permission of the instructor*



**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course PHYS 701-(1.5,3) Graduate Seminar in Physics be approved as follows:

**A. Description of the Course** This is a seminar course for Physics MSc students. It is the replacement for the MCPM 704-1.5 course that is being removed from the Graduate Calendar. When appropriate, this course can be cross-listed with other Faculty of Science graduate seminar courses (e.g. CPSC, MATH, CHEM) or offered as stand-alone. This course comprises weekly seminar sessions in Physics. This course provides students with an opportunity to present ideas pertaining to their research proposals, research design and presentation of research results. All Physics MSc students must register in a seminar course twice during their program of study. This is a PASS/FAIL course.

1. **Proposed semester of first offering:** September 2023

2. **Academic Program:** MSc Physics

3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** PHYS 701-(1.5,3)

4. **Course Title:** Graduate Seminar in Physics

5. **Goal(s) of Course:** Provide MSc graduate students in Physics the opportunity to develop skills in development of their research proposals, the design of a research project and the presentation of research outcomes. It will be open to students in the Thesis and Project stream degrees. Graduate students are expected to obtain 3 credits toward their degree program through this course, so depending on the SCH for a given offering might take the course once or twice.

6. **Calendar Course Description:** This course comprises weekly seminar sessions in physics, and provides students with an opportunity to develop and present ideas pertaining to their research proposals, research design, scientific writing and presentation of research results.

7. **Credit Hours:** 1.5, 3 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

a) **Can the course be repeated for credit if the subject matter differs substantially?**

Yes\*  X   No

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course: 3.0

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

b) Is variable credit available for this course? Yes  No

Variable credit is denoted by the following examples:

i) "3-6": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3-6).

ii) "3,6": in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3,6).

8. Contact Hours (per week):

Lecture 0

Seminar 1.5,3

Laboratory 0

Other (please specify) \_\_\_\_\_

9. Prerequisites (taken prior): Permission of the Instructor

10. Prerequisites with concurrency (taken prior or simultaneously): none

11. Co-requisites (must be taken simultaneously): none

12. Preclusions: none

13. Course Equivalencies: MATH 704-1.5, CPSC 704-1.5, CHEM 714-1.5

14. Grade Mode: PASS/FAIL

15. Course to be offered: each semester \_\_\_\_\_

each year X

alternating years \_\_\_\_\_

16. Proposed text / readings: none

**B. Significance Within Academic Program** MSc graduate students are expected to obtain 3 credits in their degree program with this course, so will take it once or twice depending on the SCH in the offering.

1. Anticipated enrolment 3-5

2. If there is a proposed enrolment limit, state the limit and explain: none

3. Required for: Major: \_\_\_\_\_ Minor: \_\_\_\_\_ Other: \_\_\_\_\_

4. Elective in: Major: \_\_\_\_\_ Minor: \_\_\_\_\_ Other: \_\_\_\_\_

5. Course required by another major/minor:

Can be cross-listed with other MSc seminar courses in the Faculty of Science and Engineering



6. **Course required or recommended by an accrediting agency:** none
7. **Toward what degrees will the course be accepted for credit?** MSc Physics (Thesis and Project streams)
8. **What other courses are being proposed within the Program this year?** PHYS 790, PHYS 791
9. **What courses are being deleted from the Program this year?** MCPM 704, 790, 791

### **C. Relation to Other Program Areas**

1. **Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:** Can be cross-listed with other MSc seminar courses in the Faculty of Science and Engineering
2. **Is a preclusion required?** Yes \_\_\_\_\_ No  X
3. **If there is an overlap, and no preclusion is required, please explain why not:**
4. **Has this overlap been discussed with the Program concerned?** Yes  X  No \_\_\_\_\_
5. **In offering this course, will UNBC require facilities or staff at other institutions?**

Yes \_\_\_\_\_ No  X

**If yes, please describe requirements:**

6. **Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?**

Yes \_\_\_\_\_ No  X

**If “yes,”** please contact the Articulation Officer in the Office of the Registrar.

### **D. Resources required**

1. **Please describe ADDITIONAL resources required over the next five years to offer this course.**
  - i. **Faculty Staffing:** none
  - ii. **Space (classroom, laboratory, storage, etc.):** none
  - iii: **Library Holdings:** See attached form
  - iv. **Computer (time, hardware, software):**

### **E. Additional Attached Materials**



Motion Number (assigned by  
Steering Committee of Senate): S-202305.21

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**  
**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course PHYS 793-6 Master of Science (Physics) Project be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Physics (Project option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** PHYS 793-6
4. **Course Title:** Master of Science (Physics) Project
5. **Goal(s) of Course:** To allow graduate students in the MSc Physics (Project option) program to register in and complete their project. Replaces MCPM 791-6.
6. **Calendar Course Description:**

The MSc project documents an extended paper, plan, or program that makes a contribution to or addresses an issue in Physics. The development of a project requires the application of original thought to the problem or issue being investigated. The non-thesis project does not require the development of a research design or research methodology and need not involve the collection of original data. Successful completion of the project is required for graduation in the Master of Science (Physics) project stream.

7. **Credit Hours:** 6 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course?** Yes \_\_\_\_\_ No X



1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners. The requirement is to

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If "yes," please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

- 1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
 \* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*


\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** replacement for MCPM 704 course being deleted
- 3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

**SCCC Reviewed:** February 27, 2023

- 1. **Faculty(ies):** Science and Engineering - Physics
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.05
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

<b>INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING</b>	
<b>Brief Summary of Committee Debate:</b>	
<b>Motion No.:</b>	SCAAF 202305.20
<b>Moved by:</b> Kathy Lewis	<b>Seconded by:</b> Rebecca Schiff
<b>Committee Decision:</b> CARRIED	
<b>Approved by SCAAF:</b>	
Date <u> May 17, 2023 </u>	<b>Chair's Signature</b>
<b>For recommendation to <u> ✓ </u>, or information of _____ Senate.</b>	

Motion Number (assigned by  
Steering Committee of Senate): S-202305.22

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**  
**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course PHYS 794-12 Master of Science (Physics) Thesis be approved as follows:

**A. Description of the Course**

- 1. Proposed semester of first offering:** September 2023
- 2. Academic Program:** MSc Physics (Thesis option)
- 3. Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** PHYS 794-12
- 4. Course Title:** Master of Science (Physics) Thesis
- 5. Goal(s) of Course:** To allow graduate students registered in the MSc Physics program to register in and complete their thesis. Replaces MCPM 790-12.
- 6. Calendar Course Description:**

The MSc thesis documents a scientific contribution to the field of Physics. Students are expected to conduct original research involving a literature review, development of a research design and methodology, testing and analysis of data, and development of conclusions. Successful defence of the thesis is required for graduation in the Master of Science (Physics) thesis stream.

- 7. Credit Hours:** 12 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course?** Yes, \_\_\_\_\_ No X





1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners. The requirement is to

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If "yes," please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

- 1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
 \* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*


\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** replacement for MCPM 704 course being deleted
- 3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

**SCCC Reviewed:** February 27, 2023

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.06
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

<b>INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING</b>	
<b>Brief Summary of Committee Debate:</b>	
<b>Motion No.:</b>	SCAAF 202305.21
<b>Moved by:</b> Kathy Lewis	<b>Seconded by:</b> Rebecca Schiff
<b>Committee Decision:</b> CARRIED	
<b>Approved by SCAAF:</b>	
Date	<b>Chair's Signature</b>
<b>For recommendation to</b> <u> ✓ </u> <b>, or information of</b> _____ <b>Senate.</b>	

Motion Number (assigned by S-202305.23  
Steering Committee of Senate): \_\_\_\_\_

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course CPSC 793-6 Master of Science (Computer Science) Project be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** Computer Science
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** CPSC 793-6
4. **Course Title:** Master of Science (Computer Science) Project
5. **Goal(s) of Course:** To allow graduate students in the field of Computer Science to register in and complete their project. Replaces MCPM 791-6.

**6. Calendar Course Description:**

The MSc Project is an extended position paper, report, plan or program that makes a contribution to, or addresses, a major problem or issue in the field of computer science. The development of the project requires the application of original thought to the problem or issue under investigation. The project does not require the development of a research design or research methodology and need not involve the collection of original data. Successful completion of the project is required for graduation in the Master of Science (Computer Science stream) project option.

7. **Credit Hours:** 6 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course: \_\_\_\_\_

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
*"This course may be repeated to a maximum of XX credit hours if the material is substantially different."*

**b) Is variable credit available for this course?** Yes \_\_\_\_\_ No X

Variable credit is denoted by the following examples:



3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.

4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_

If **yes**, please describe requirements: We may use people at other institutions to act as external examiners.

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe **ADDITIONAL** resources required over the next five years to offer this course.

- i. **Faculty Staffing:** none
- ii. **Space (classroom, laboratory, storage, etc.):** none
- iii. **Library Holdings:** See attached form
- iv. **Computer (time, hardware, software):** none

**E. Additional Attached Materials** none

## F. Other Considerations

1. **First Nations Content\***: Yes\*\* \_\_\_\_\_ No   X  

\* *Whether a new course has First Nations content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives prior to SCAAF.

2. **Other Information:** This course replaces MCPM 791-6 Project course as the project requirement for MSc (Computer Science) students.

3. **Attachment Pages (in addition to required “Library Holdings” Form):**   0   pages

## G. Authorization

SCCC Reviewed: April 17, 2023

1. **Faculty(ies):** Science and Engineering
2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.17
3. **Faculty Council Approval Date(s):** March 10, 2023
4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

### INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING

#### Brief Summary of Committee Debate:

**Motion No.:** SCAAF 202305.22

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**   May 17, 2023    
**Date**

  
**Chair's Signature**

**For recommendation to**   ✓  , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by S-202305.24  
Steering Committee of Senate): \_\_\_\_\_

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course CPSC 794-12 Master of Science (Computer Science) Thesis be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** Computer Science
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** CPSC 794-12
4. **Course Title:** Master of Science (Computer Science) Thesis
5. **Goal(s) of Course:** To allow graduate students in the field of Computer Science to register in and complete their thesis. Replaces MCPM 790-12.

**6. Calendar Course Description:**

The MSc thesis documents a scientific contribution to the field of computer science. Students are expected to conduct original research involving a literature review, development of a research design and methodology, testing and analysis of data, and development of conclusions. Successful defence of the thesis is required for graduation in the computer science thesis stream.

7. **Credit Hours:** 12 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X \_\_\_\_\_

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course: \_\_\_\_\_

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course? Yes \_\_\_\_\_ No X \_\_\_\_\_**

Variable credit is denoted by the following examples:

- i) "**3-6**": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3-6).





3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.

4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_

If **yes**, please describe requirements: We may use people at other institutions to act as external examiners.

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

#### **D. Resources required**

1. Please describe **ADDITIONAL** resources required over the next five years to offer this course.

- i. **Faculty Staffing:** none
- ii. **Space (classroom, laboratory, storage, etc.):** none
- iii. **Library Holdings:** See attached form
- iv. **Computer (time, hardware, software):** none

**E. Additional Attached Materials** none



Motion Number (assigned by  
Steering Committee of Senate): S-202305.25

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**  
**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course BCMB 793-6 Master of Science (Biochemistry) Project be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Biochemistry (Project option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** BCMB 793-6
4. **Course Title:** Master of Science (Biochemistry) Project
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Biochemistry program to register in and complete their project-based degree. Replaces MCPM 791-6.
6. **Calendar Course Description:**

The MSc project requires the completion of an extended position paper, report, plan or program making a contribution to, or addressing a major issue in, a scientific field. The development of the project requires the application of original thought to the problem or issue under investigation. The non-thesis project does not require the development of a research design or research methodology, and need not involve the collection or generation of an original data.

7. **Credit Hours:** 6 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course?** Yes, \_\_\_\_\_ No X



1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

- 1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
 \* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** replacement for MCPM 704 course being deleted
- 3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

**SCCC Reviewed:**

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.12
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.24

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by  
Steering Committee of Senate): S-202305.26

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**  
**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course BCMB 794-12 Master of Science (Biochemistry) Thesis be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Biochemistry (Thesis option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** BCMB 794-12
4. **Course Title:** Master of Science (Biochemistry) Thesis
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Biochemistry program to register in and complete their thesis. Replaces MCPM 790-12.
6. **Calendar Course Description:**

The MSc thesis documents a scientific contribution to the field of Biochemistry. Students are expected to conduct original research involving a literature review, development of a research design and methodology, testing and analysis of data, and development of conclusions. Successful defence of the thesis is required for graduation in the Master of Science (Biochemistry) thesis stream.

7. **Credit Hours:** 12 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course?** Yes, \_\_\_\_\_ No X





1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

1. **Indigenous Content\***: Yes\*\* \_\_\_\_\_ No  X   
\* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

2. **Other Information:** replacement for MCPM 704 course being deleted  
3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

SCCC Reviewed:

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.09
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.25

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by  
Steering Committee of Senate): S-202305.27

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### NEW COURSE APPROVAL MOTION FORM

**Motion:** That the new course CHEM 793-6 Master of Science (Chemistry) Project be approved as follows:

#### A. Description of the Course

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Chemistry (Project option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** CHEM 793-6
4. **Course Title:** Master of Science (Chemistry) Project
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Chemistry program to register in and complete their project-based degree. Replaces MCPM 791-6.
6. **Calendar Course Description:**

The MSc project requires the completion of an extended position paper, report, plan or program making a contribution to, or addressing a major issue in, a scientific field. The development of the project requires the application of original thought to the problem or issue under investigation. The non-thesis project does not require the development of a research design or research methodology, and need not involve the collection or generation of an original data.

7. **Credit Hours:** 6 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

#### a) **Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

b) Is variable credit available for this course? Yes, \_\_\_\_\_ No X

Variable credit is denoted by the following examples:

- i) "3-6": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3-6).
- ii) "3,6": in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3,6).

8. **Contact Hours (per week):**

Lecture \_\_\_\_\_ # \_\_\_\_\_

Seminar \_\_\_\_\_ # \_\_\_\_\_

Laboratory \_\_\_\_\_ # \_\_\_\_\_

Other (please specify) Student supervisor contact

9. **Prerequisites (taken prior):** Acceptance in the Masters of Science (Chemistry) program

10. **Prerequisites with concurrency (taken prior or simultaneously):** none

11. **Co-requisites (must be taken simultaneously):** none

12. **Preclusions:** none

13. **Course Equivalencies:** none

14. **Grade Mode:** PASS/FAIL

15. **Course to be offered:** each semester yes

each year \_\_\_\_\_

alternating years \_\_\_\_\_

16. **Proposed text / readings:** none

**B. Significance Within Academic Program**

1. **Anticipated enrolment** 1-2

2. **If there is a proposed enrolment limit, state the limit and explain:** no limit

3. **Required for:** Major: MSc Chemistry Minor: \_\_\_\_\_ Other: \_\_\_\_\_

4. **Elective in:** Major: none Minor: \_\_\_\_\_ Other: \_\_\_\_\_

5. **Course required by another major/minor:** none

6. **Course required or recommended by an accrediting agency:** none

7. **Toward what degrees will the course be accepted for credit?** MSc Chemistry

8. **What other courses are being proposed within the Program this year?**

9. **What courses are being deleted from the Program this year?** MCPM 791-6

**C. Relation to Other Program Areas**

1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

- 1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
 \* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** replacement for MCPM 704 course being deleted
- 3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

**SCCC Reviewed:**

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.13
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.26

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by  
Steering Committee of Senate): S-202305.28

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course CHEM 794-12 Master of Science (Chemistry) Thesis be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Chemistry (Thesis option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** CHEM 794-12
4. **Course Title:** Master of Science (Chemistry) Thesis
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Chemistry program to register in and complete their thesis. Replaces MCPM 790-12.
6. **Calendar Course Description:**

The MSc thesis documents a scientific contribution to the field of Chemistry. Students are expected to conduct original research involving a literature review, development of a research design and methodology, testing and analysis of data, and development of conclusions. Successful defence of the thesis is required for graduation in the Master of Science (Chemistry) thesis stream.

7. **Credit Hours:** 12 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course?** Yes, \_\_\_\_\_ No X

Variable credit is denoted by the following examples:

- i) "3-6": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3-6).
- ii) "3,6": in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as CHEM 210-(3,6).

**8. Contact Hours (per week):**

Lecture      # \_\_\_\_\_

Seminar      # \_\_\_\_\_

Laboratory    # \_\_\_\_\_

Other (please specify) Student supervisor contact

**9. Prerequisites (taken prior):** Acceptance in the Masters of Science (Chemistry) program

**10. Prerequisites with concurrency (taken prior or simultaneously):** none

**11. Co-requisites (must be taken simultaneously):** none

**12. Preclusions:** none

**13. Course Equivalencies:** none

**14. Grade Mode:** PASS/FAIL

**15. Course to be offered:** each semester yes  
each year \_\_\_\_\_  
alternating years \_\_\_\_\_

**16. Proposed text / readings:** none

**B. Significance Within Academic Program**

**1. Anticipated enrolment** 5-6

**2. If there is a proposed enrolment limit, state the limit and explain:** no limit

**3. Required for:** Major: MSc Chemistry Minor: \_\_\_\_\_ Other: \_\_\_\_\_

**4. Elective in:** Major: none Minor: \_\_\_\_\_ Other: \_\_\_\_\_

**5. Course required by another major/minor:** none

**6. Course required or recommended by an accrediting agency:** none

**7. Toward what degrees will the course be accepted for credit?** MSc Chemistry

**8. What other courses are being proposed within the Program this year?**

**9. What courses are being deleted from the Program this year?** MCPM 790-12

**C. Relation to Other Program Areas**



1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If "yes," please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**



Motion Number (assigned by  
Steering Committee of Senate): S-202305.29

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**  
**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course MATH 793-6 Master of Science (Mathematics) Project be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Mathematics (Project option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** MATH 793-6
4. **Course Title:** Master of Science (Mathematics) Project
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Mathematics program to register in and complete their project-based degree. Replaces MCPM 791-6.
6. **Calendar Course Description:**

The MSc project requires the completion of an extended position paper, report, plan or program making a contribution to, or addressing a major issue in, a scientific field. The development of the project requires the application of original thought to the problem or issue under investigation. The non-thesis project does not require the development of a research design or research methodology, and need not involve the collection or generation of an original data.

7. **Credit Hours:** 6 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\*  No

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

b) Is variable credit available for this course? Yes, \_\_\_\_\_ No X

Variable credit is denoted by the following examples:

- i) "3-6": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as MATH 210-(3-6).
- ii) "3,6": in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as MATH 210-(3,6).

8. Contact Hours (per week):

Lecture \_\_\_\_\_ # \_\_\_\_\_

Seminar \_\_\_\_\_ # \_\_\_\_\_

Laboratory \_\_\_\_\_ # \_\_\_\_\_

Other (please specify) Student supervisor contact

9. Prerequisites (taken prior): Acceptance in the Masters of Science (Mathematics) program

10. Prerequisites with concurrency (taken prior or simultaneously): none

11. Co-requisites (must be taken simultaneously): none

12. Preclusions: none

13. Course Equivalencies: none

14. Grade Mode: PASS/FAIL

15. Course to be offered: each semester yes

each year \_\_\_\_\_

alternating years \_\_\_\_\_

16. Proposed text / readings: none

**B. Significance Within Academic Program**

1. Anticipated enrolment 1-2

2. If there is a proposed enrolment limit, state the limit and explain: no limit

3. Required for: Major: MSc Mathematics Minor: \_\_\_\_\_ Other: \_\_\_\_\_

4. Elective in: Major: none Minor: \_\_\_\_\_ Other: \_\_\_\_\_

5. Course required by another major/minor: none

6. Course required or recommended by an accrediting agency: none

7. Toward what degrees will the course be accepted for credit? MSc Mathematics

8. What other courses are being proposed within the Program this year?

9. What courses are being deleted from the Program this year? MCPM 791-6

**C. Relation to Other Program Areas**

1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

- 1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
 \* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** replacement for MCPM 704 course being deleted
- 3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

SCCC Reviewed:

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.14
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.28

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

   
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by  
Steering Committee of Senate): S-202305.30

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**  
**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course MATH 794-12 Master of Science (Mathematics) Thesis be approved as follows:

**A. Description of the Course**

- 1. Proposed semester of first offering:** September 2023
- 2. Academic Program:** MSc Mathematics (Thesis option)
- 3. Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** MATH 794-12
- 4. Course Title:** Master of Science (Mathematics) Thesis
- 5. Goal(s) of Course:** To allow graduate students registered in the MSc Mathematics program to register in and complete their thesis. Replaces MCPM 790-12.
- 6. Calendar Course Description:**

The MSc thesis documents a scientific contribution to the field of Mathematics. Students are expected to conduct original research involving a literature review, development of a research design and methodology, testing and analysis of data, and development of conclusions. Successful defence of the thesis is required for graduation in the Master of Science (Mathematics) thesis stream.

- 7. Credit Hours:** 12 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
"This course may be repeated to a maximum of XX credit hours if the material is substantially different."

**b) Is variable credit available for this course?** Yes, \_\_\_\_\_ No X





1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
\* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

2. **Other Information:** replacement for MCPM 704 course being deleted  
3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

SCCC Reviewed:

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.11
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.29

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by  
Steering Committee of Senate): S-202305.31

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course STAT 793-6 Master of Science (Mathematics) Project be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Mathematics (Project option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** STAT 793-6
4. **Course Title:** Master of Science (Mathematics) Project
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Mathematics program to register in and complete their project-based degree. Replaces MCPM 791-6.
6. **Calendar Course Description:**

The MSc project requires the completion of an extended position paper, report, plan or program making a contribution to, or addressing a major issue in, a scientific field. The development of the project requires the application of original thought to the problem or issue under investigation. The non-thesis project does not require the development of a research design or research methodology, and need not involve the collection or generation of an original data.

7. **Credit Hours:** 6 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\*  No

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:  
*"This course may be repeated to a maximum of XX credit hours if the material is substantially different."*

**b) Is variable credit available for this course?** Yes,  No

Variable credit is denoted by the following examples:

- i) "3-6": in this example, the course may be offered for 3, 4, 5, OR 6 credit hours during a single offering. In this example, the course number would be expressed as MATH 210-(3-6).
- ii) "3,6": in this example, the course may be offered for EITHER 3 or 6 credit hours during a single offering. In this example, the course number would be expressed as MATH 210-(3,6).

**8. Contact Hours (per week):**

Lecture      # \_\_\_\_\_

Seminar      # \_\_\_\_\_

Laboratory    # \_\_\_\_\_

Other (please specify) Student supervisor contact

**9. Prerequisites (taken prior):** Acceptance in the Masters of Science (Mathematics) program

**10. Prerequisites with concurrency (taken prior or simultaneously):** none

**11. Co-requisites (must be taken simultaneously):** none

**12. Preclusions:** none

**13. Course Equivalencies:** none

**14. Grade Mode:**      PASS/FAIL

**15. Course to be offered:** each semester    yes

each year      \_\_\_\_\_

alternating years    \_\_\_\_\_

**16. Proposed text / readings:** none

**B. Significance Within Academic Program**

**1. Anticipated enrolment**      1-2

**2. If there is a proposed enrolment limit, state the limit and explain:** no limit

**3. Required for:** Major: MSc Mathematics    Minor: \_\_\_\_\_    Other: \_\_\_\_\_

**4. Elective in:**    Major: none      Minor: \_\_\_\_\_    Other: \_\_\_\_\_

**5. Course required by another major/minor:** none

**6. Course required or recommended by an accrediting agency:** none

**7. Toward what degrees will the course be accepted for credit?** MSc Mathematics

**8. What other courses are being proposed within the Program this year?**

**9. What courses are being deleted from the Program this year?** MCPM 791-6

**C. Relation to Other Program Areas**

1. Identify courses in other UNBC Programs that overlap with this course; describe the overlap and comment on its significance:
2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.
4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If **“yes,”** please contact the Articulation Officer in the Office of the Registrar.

**D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

**E. Additional Attached Materials none**

**F. Other Considerations**

1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
\* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

2. **Other Information:** replacement for MCPM 704 course being deleted  
3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

SCCC Reviewed:

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.15
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.30

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Motion Number (assigned by  
Steering Committee of Senate): S-202305.32

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**NEW COURSE APPROVAL MOTION FORM**

**Motion:** That the new course STAT 794-12 Master of Science (Mathematics) Thesis be approved as follows:

**A. Description of the Course**

1. **Proposed semester of first offering:** September 2023
2. **Academic Program:** MSc Mathematics (Thesis option)
3. **Course Subject, Number\*, and Credit hours (e.g. CHEM 210-3):** STAT 794-12
4. **Course Title:** Master of Science (Mathematics) Thesis
5. **Goal(s) of Course:** To allow graduate students registered in the MSc Mathematics program to register in and complete their thesis. Replaces MCPM 790-12.
6. **Calendar Course Description:**

The MSc thesis documents a scientific contribution to the field of Statistics. Students are expected to conduct original research involving a literature review, development of a research design and methodology, testing and analysis of data, and development of conclusions. Successful defence of the thesis is required for graduation in the Master of Science (Mathematics) thesis stream.

7. **Credit Hours:** 12 credit hours (Normally, UNBC courses are 3 credit hours and may not be repeated for additional credit. If this course falls outside the norm, please complete sections "a)" and "b)" below).

**a) Can the course be repeated for credit if the subject matter differs substantially?**

Yes\* \_\_\_\_\_ No X \_\_\_\_\_

\* If "yes," please indicate the maximum number\*\* of credit hours which may be applied to a student's degree using this course:

\*\* If the course may be taken more than once but will only ever be offered for 3 credit hours, for example, per offering, the credit hours are simply expressed as "3" and the following notation (with the correct number of credit hours noted) is included within the Calendar Course Description:

*"This course may be repeated to a maximum of XX credit hours if the material is substantially different."*

**b) Is variable credit available for this course?** Yes, \_\_\_\_\_ No X \_\_\_\_\_

Variable credit is denoted by the following examples:





2. Is a preclusion required? Yes \_\_\_\_\_ No  X
3. If there is an overlap, and no preclusion is required, please explain why not: Many programs have thesis courses, they are all individual and no overlap because they are individual and research based.

4. Has this overlap been discussed with the Program concerned? Yes \_\_\_\_\_ No  X

5. In offering this course, will UNBC require facilities or staff at other institutions?

Yes  X  No \_\_\_\_\_ We may use people at other institutions to act as external examiners and/or as members of the supervisory committee.

If yes, please describe requirements:

6. Is this course replacing an existing course that is included in one or more transfer agreements with external institutions?

Yes \_\_\_\_\_ No  X

If "yes," please contact the Articulation Officer in the Office of the Registrar.

#### **D. Resources required**

1. Please describe ADDITIONAL resources required over the next five years to offer this course.

- i. Faculty Staffing: none
- ii. Space (classroom, laboratory, storage, etc.): none
- iii: Library Holdings: See attached form
- iv. Computer (time, hardware, software): none

#### **E. Additional Attached Materials** none

**F. Other Considerations**

- 1. **Indigenous Content\*:** Yes\*\* \_\_\_\_\_ No  X   
 \* *Whether a new course has Indigenous content is to be determined by the relevant Faculty Council(s).*

\*\*If “yes,” refer the motion to the Senate Committee on Indigenous Initiatives **prior to** SCAAF.

- 2. **Other Information:** replacement for MCPM 704 course being deleted
- 3. **Attachment Pages (in addition to required “Library Holdings” Form):**  0  pages

**G. Authorization**

**SCCC Reviewed:**

- 1. **Faculty(ies):** Science and Engineering
- 2. **Faculty Council Motion Number(s):** FSE FC 2023.03.10.11
- 3. **Faculty Council Approval Date(s):** March 10, 2023
- 4. **Senate Committee on Indigenous Initiatives Motion Number:** N/A
- 5. **Senate Committee on Indigenous Initiatives Meeting Date:** N/A

**INFORMATION TO BE COMPLETED BY RECORDING SECRETARY AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.31

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the program description for Mathematical, Computer, Physical and Molecular Sciences (MSc Program), on page 67-69 in the 2022/2023 graduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** To clean up the calendar to reflect the current state of the various programs that were originally included in the MCPMS degrees. In 2010 changes to the MCPMS degree were approved by Senate and then DQAB that effectively split the degrees to the five different disciplines. Although FSE still plans to offer some courses jointly between the different disciplines where it makes sense. The MCPMS as a degree no longer exists and is confusing to some students. This entry will be replaced by descriptions of each degree program.
3. **Implications of the changes for other programs, etc., if applicable:** We have consulted with the FSE faculty. This should not affect other academic units.
4. **Reproduction of current Calendar entry for the item to be revised:**

# Mathematical, Computer, Physical, and Molecular Sciences (MSc Program)

Chair of the Mathematical, Computer, Physical and Molecular Sciences Graduate Committee: Dr. Ron Thring

## Biochemistry

Chow H. Lee, Professor  
Geoffrey Payne, Professor  
Stephen Rader, Professor  
Kerry Reimer, Professor  
Andrea Gorrell, Associate Professor  
Sarah Gray, Associate Professor  
Kendra Furber, Assistant Professor  
Martha Stark, Adjunct Professor  
Daniel Erasmus, Senior Lab Instructor

## Chemistry

Erik Jensen, Professor  
Chow H. Lee, Professor  
Jianbing Li, Professor

Margot Mandy, Professor  
Stephen Rader, Professor  
Kerry Reimer, Professor  
Ron Thring, Professor  
Todd Whitcombe, Professor  
Andrea Gorrell, Associate Professor  
Hossein Kazemian, Adjunct Professor  
Martha Stark, Adjunct Professor

### Computer Science

Liang Chen, Professor  
Waqar Haque, Professor  
David Casperson, Associate Professor  
Fan Jiang, Associate Professor  
Darren Brown, Assistant Professor  
Andreas Hirt, Term Assistant Professor  
Allan Kranz, Senior Lab Instructor

### Mathematics

Lee Keener, Professor Emeritus

Jennifer Hyndman, Professor  
Kevin Keen, Professor  
Pranesh Kumar, Professor  
David Casperson, Associate Professor  
Mohammad El Smaily, Associate Professor  
Alia Hamieh, Associate Professor  
Daniel Ryan, Associate Professor  
Edward Dobrowoski, Assistant Professor  
Andy Wan, Assistant Professor  
Samuel Walters, Adjunct Professor

### Physics

Ahmed Hussein, Professor Emeritus  
Mark Shegelski, Professor Emeritus

Ian Hartley, Professor  
Erik Jensen, Professor  
Elie Korkmaz, Professor  
Margot Mandy, Professor  
Matthew Reid, Associate Professor

Website: [www.unbc.ca/calendar/graduate/math-comp-science](http://www.unbc.ca/calendar/graduate/math-comp-science)

Mathematical, Computer, Physical and Molecular Sciences (MCPMS) is one stream of the Master of Science degree in the Faculty of Science and Engineering. Thesis and project options are available. The thesis option has, as a substantial component, the completion of an original research program, culminating in the preparation of a thesis, and prepares graduates for careers in research or for further academic study. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as provides a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to upgrade their skills. Students within the MCPMS stream will, upon successful completion of the degree requirements outlined herein, obtain an MSc with one or any combination of the following study areas noted on their transcript: Mathematics, Biochemistry, Computer Science, Chemistry, and Physics.

All students must participate in a Graduate Seminar course (one of MCPM 704-1.5, BCMB 704-1.5, NRES 704-1.5, CPSC 704-1.5, MATH 704-1.5, or CHEM 714-1.5) for at least two semesters during their course of studies. Normally, students in the study area of Physics or a combination of study areas including Physics are expected to take PHYS 710-3.

### Thesis Option

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. The degree is expected to attract students from traditional science disciplines such as physics, chemistry, biochemistry, mathematics, and computer science. MSc students within the MCPMS stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 12 credit hours of approved electives, and a 12 credit-hour thesis (MCPM 790-12). It is expected that the electives will consist of scientifically oriented courses and that the thesis will involve an independent investigation resulting in a scientific contribution.

The 12 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available at UNBC. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Related to the MSc thesis (MCPM 790-12), students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), (c) give a public lecture on the completed thesis, and (d) present an oral defense of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defense.

### Summary of Thesis Option

Graduate Seminar	3 credit hours
Elective Courses	12 credit hours
MSc Thesis	12 credit hours
Total Required	27 credit hours

### Project Option

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the MCPMS project stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 18 credit hours of approved electives, and a 6 credit-hour project. Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives will consist of scientifically oriented courses, and that the project will involve an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the high weighting of course offerings for this option, it is restricted to designated specializations that have been decided upon within each program area. Designation of a specialization implies that sufficient resources are available to ensure that required courses within the specialization can be offered to fulfill the requirements for the degree.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Normally, students in the study area of Physics or a combination of study areas including Physics are expected to take PHYS 710-3. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, (c) give a public lecture on the completed project, and (d) pass an evaluation of the project and report with the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

### Summary of Project Option

Graduate Seminar	3 credit hours
------------------	----------------

Elective Courses	18 credit hours
MSc Project	6 credit hours
Total Required	27 credit hours

## Recommended Progression

The normal time for completion of the MSc is two academic years. While this is the recommended time line, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses (one or more of MCPM 704-1.5, NRES 704-1.5, BCMB 704-1.5, CPSC 704-1.5, MATH 704-1.5, CHEM 714-1.5) are offered during all September and January Semesters. Students are expected to enroll in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. This allows the student to undertake the collection of data during the Summer of Year I. It is expected that the student will have successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

## Admission, Regulations and Committee Structures

### Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Applicants must also provide a completed Teaching Assistantship Application and a completed Funding Worksheet. Both forms are included with the application material for this program. Normally, at least two of the three letters of recommendation, exclusive of any letter provided by an intended supervisor, must be from individuals who are able to comment on the applicant's academic and research potential.

Application deadlines are found in this calendar under Admissions and Regulations, or online at [www.unbc.ca/calendar/graduate](http://www.unbc.ca/calendar/graduate) (under Semester Dates). The Mathematical, Computer, Physical and Molecular Sciences MSc Program accepts students for the September and January Semesters. At the specific request of the prospective supervisor, an applicant may be considered for May admission.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at [www.unbc.ca/graduate-programs](http://www.unbc.ca/graduate-programs).

### Transfer Students

On the recommendation of the program concerned, the Dean may accept courses taken at other institutions for credit toward a UNBC graduate program. At the time of application, it is recommended that applicants clearly state in a letter the intent to transfer courses and identify the courses to be considered for possible transfer.

### Normal Time Required for Completion

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

### Committee Structure

Students are advised by a supervisory committee consisting of at least three members, including the academic supervisor who will normally serve as the chair of the committee. At least one of the committee members must be from outside of the student's program. The committee will be struck during the student's first term of study.

5. Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:

# ~~Mathematical, Computer, Physical, and Molecular Sciences (MSc Program)~~

~~Chair of the Mathematical, Computer, Physical and Molecular Sciences Graduate Committee: Dr. Ron Thring~~

## ~~Biochemistry~~

~~Chow H. Lee, Professor  
Geoffrey Payne, Professor  
Stephen Rader, Professor  
Kerry Reimer, Professor  
Andrea Gorrell, Associate Professor  
Sarah Gray, Associate Professor  
Kendra Furber, Assistant Professor  
Martha Stark, Adjunct Professor  
Daniel Erasmus, Senior Lab Instructor~~

## ~~Chemistry~~

~~Erik Jensen, Professor  
Chow H. Lee, Professor  
Jianbing Li, Professor  
Margot Mandy, Professor  
Stephen Rader, Professor  
Kerry Reimer, Professor  
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Todd Whitcombe, Professor  
Andrea Gorrell, Associate Professor  
Hossein Kazemian, Adjunct Professor  
Martha Stark, Adjunct Professor~~

## ~~Computer Science~~

~~Liang Chen, Professor  
Waqar Haque, Professor  
David Casperson, Associate Professor  
Fan Jiang, Associate Professor  
Darren Brown, Assistant Professor  
Andreas Hirt, Term Assistant Professor  
Allan Kranz, Senior Lab Instructor~~

## ~~Mathematics~~

~~Lee Keener, Professor Emeritus  
  
Jennifer Hyndman, Professor  
Kevin Keen, Professor  
Pranesh Kumar, Professor  
David Casperson, Associate Professor  
Mohammad El-Smailly, Associate Professor  
Alia Hamieh, Associate Professor  
Daniel Ryan, Associate Professor  
Edward Dobrowoski, Assistant Professor  
Andy Wan, Assistant Professor~~

Samuel Walters, Adjunct Professor

## Physics

Ahmed Hussein, Professor Emeritus

Mark Shogelski, Professor Emeritus

Ian Hartley, Professor

Erik Jensen, Professor

Elie Korkmaz, Professor

Margot Mandy, Professor

Matthew Reid, Associate Professor

Website: [www.unbc.ca/calendar/graduate/math-comp-science](http://www.unbc.ca/calendar/graduate/math-comp-science)

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All students must participate in a Graduate Seminar course (one of MCPM 704-1.5, BCMB 704-1.5, NRES 704-1.5, CPSC 704-1.5, MATH 704-1.5, or CHEM 714-1.5) for at least two semesters during their course of studies. Normally, students in the study area of Physics or a combination of study areas including Physics are expected to take PHYS 710-3.

## Thesis Option

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. The degree is expected to attract students from traditional science disciplines such as physics, chemistry, biochemistry, mathematics, and computer science. MSc students within the MCPMS stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 12 credit hours of approved electives, and a 12 credit-hour thesis (MCPM 790-12). It is expected that the electives will consist of scientifically oriented courses and that the thesis will involve an independent investigation resulting in a scientific contribution.

The 12 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available at UNBC. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Related to the MSc thesis (MCPM 790-12), students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), (c) give a public lecture on the completed thesis, and (d) present an oral defense of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defense.

## Summary of Thesis Option

Graduate Seminar	3 credit hours
Elective Courses	12 credit hours
MSc Thesis	12 credit hours
Total Required	27 credit hours

## Project Option



The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the MCPMS project stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 18 credit hours of approved electives, and a 6 credit hour project. Given the course intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives will consist of scientifically oriented courses, and that the project will involve an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the high weighting of course offerings for this option, it is restricted to designated specializations that have been decided upon within each program area. Designation of a specialization implies that sufficient resources are available to ensure that required courses within the specialization can be offered to fulfill the requirements for the degree.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Normally, students in the study area of Physics or a combination of study areas including Physics are expected to take PHYS 710-3. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, (c) give a public lecture on the completed project, and (d) pass an evaluation of the project and report with the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

### Summary of Project Option

Graduate Seminar	3 credit hours
Elective Courses	18 credit hours
MSc Project	6 credit hours
Total Required	27 credit hours

### Recommended Progression

The normal time for completion of the MSc is two academic years. While this is the recommended time line, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses (one or more of MCPM 704-1.5, NRES 704-1.5, BCMB 704-1.5, CPSC 704-1.5, MATH 704-1.5, CHEM 714-1.5) are offered during all September and January Semesters. Students are expected to enroll in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. This allows the student to undertake the collection of data during the Summer of Year I. It is expected that the student will have successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

## Admission, Regulations and Committee Structures

### Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Applicants must also provide a completed Teaching Assistantship Application and a completed

Funding Worksheet. Both forms are included with the application material for this program. Normally, at least two of the three letters of recommendation, exclusive of any letter provided by an intended supervisor, must be from individuals who are able to comment on the applicant's academic and research potential.

Application deadlines are found in this calendar under Admissions and Regulations, or online at [www.unbc.ca/calendar/graduate](http://www.unbc.ca/calendar/graduate) (under Semester Dates). The Mathematical, Computer, Physical and Molecular Sciences MSc Program accepts students for the September and January Semesters. At the specific request of the prospective supervisor, an applicant may be considered for May admission.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at [www.unbc.ca/graduate-programs](http://www.unbc.ca/graduate-programs).

## Transfer Students

On the recommendation of the program concerned, the Dean may accept courses taken at other institutions for credit toward a UNBC graduate program. At the time of application, it is recommended that applicants clearly state in a letter the intent to transfer courses and identify the courses to be considered for possible transfer.

## Normal Time Required for Completion

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

## Committee Structure

Students are advised by a supervisory committee consisting of at least three members, including the academic supervisor who will normally serve as the chair of the committee. At least one of the committee members must be from outside of the student's program. The committee will be struck during the student's first term of study.

[new calendar entries, sorted alphabetically]

# Biochemistry (MSc Program)

Program Chair: Dr. Todd Whitcombe

Chow H. Lee, Professor

Geoffrey Payne, Professor

Stephen Rader, Professor

Kerry Reimer, Professor

Andrea Gorrell, Associate Professor

Sarah Gray, Associate Professor

Kendra Furber, Assistant Professor

Maggie Li, Adjunct Professor

Martha Stark, Adjunct Professor

Daniel Erasmus, Senior Lab Instructor

Website: [www.unbc.ca/biochemistry](http://www.unbc.ca/biochemistry)

Thesis and project options are available. The thesis option prepares graduate students for careers in research or further academic study by requiring the design and completion of an original research program and preparation of a thesis. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as providing a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to upgrade their skills.

All students must participate in the Graduate Seminar course BCMB 704-1.5 for at least two semesters during their course of studies.

## Thesis Option

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. MSc students within the Biochemistry thesis stream are required to complete 3 credit hours of Graduate Seminar (two semesters), a minimum of 12 credit hours of approved graduate-level electives (i.e., at or above the 600 level), and a 12 credit-hour thesis (BCMB 794-12). It is expected that the electives consist of scientifically-oriented courses and that the thesis involves an independent investigation resulting in an original scientific contribution.

A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the selection of appropriate elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), and (c) present a public oral defence of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defence.

### **Summary of Thesis Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>12 credit hours</u>
<u>MSc Thesis</u>	<u>12 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

### **Project Option**

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the BCMB project stream are required to complete 3 credit hours of Graduate Seminar (two semesters), a minimum of 18 credit hours of approved electives, and a 6 credit-hour project (BCMB 793-6). Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected the electives consist of scientifically-oriented courses, and the project involves an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the number of courses required for this option, it is restricted to designated specializations that have been decided upon within each program area.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective course requirement. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the selection of appropriate elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, and (c) present a public oral defence of the project to the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

### **Summary of Project Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>18 credit hours</u>
<u>MSc Project</u>	<u>6 credit hours</u>

Total Required

27 credit hours

### **Recommended Progression**

The normal time for completion of the MSc is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses are offered during all September and January Semesters. Students are expected to enrol in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. It is expected that the student has successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

### **Admission Requirements**

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Normally three letters of recommendation are required with two being from individuals who are able to comment on the applicant's academic and research potential.

Additional information about graduate admissions, including application deadlines, is available on the website [www.unbc.ca/admission/graduate](http://www.unbc.ca/admission/graduate)

### **Normal Time Required for Completion**

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

# **Chemistry (MSc Program)**

Program Chair: Dr. Todd Whitcombe  
Erik Jensen, Professor  
Chow H. Lee, Professor  
Jianbing Li, Professor  
Margot Mandy, Professor  
Stephen Rader, Professor  
Kerry Reimer, Professor  
Ron Thring, Professor  
Todd Whitcombe, Professor  
Andrea Gorrell, Associate Professor  
Hossein Kazemian, Adjunct Professor

Website: [www.unbc.ca/chemistry](http://www.unbc.ca/chemistry)

Thesis and project options are available. The thesis option prepares graduate students for careers in research or further academic study by requiring the design and completion of an original research program and preparation of a thesis. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as providing a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to upgrade their skills.

All students must participate in the Graduate Seminar course CHEM 714-1.5 for at least two semesters during their course of studies.

## **Thesis Option**

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. MSc students within the Chemistry thesis stream are required to complete 3 credit hours of Graduate Seminar (two semesters), a minimum of 12 credit hours of approved graduate-level electives (i.e., at or above the 600 level), and a 12 credit-hour thesis (CHEM 794-12). It is expected that the electives consist of scientifically-oriented courses and that the thesis involves an independent investigation resulting in an original scientific contribution.

A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the selection of appropriate elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), and (c) present a public oral defence of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defence.

## **Summary of Thesis Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>12 credit hours</u>
<u>MSc Thesis</u>	<u>12 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

## **Project Option**

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the CHEM project stream are required to complete 3 credit hours of Graduate Seminar (two semesters), a minimum of 18 credit hours of approved electives, and a 6 credit-hour project (CHEM 793-6). Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives consist of scientifically-oriented courses, and that the project involves an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the number of courses required for this option, it is restricted to designated specializations that have been decided upon within each program area.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective course requirement. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, and (c) present a public oral defence of the project to the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

## **Summary of Project Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>18 credit hours</u>

MSc Project                      6 credit hours

Total Required                27 credit hours

### **Recommended Progression**

The normal time for completion of the MSc is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses are offered during all September and January Semesters. Students are expected to enrol in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. It is expected that the student has successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

### **Admission Requirements**

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Normally, three letters of recommendation are required with two being from individuals who are able to comment on the applicant's academic and research potential.

Additional information about graduate admissions, including application deadlines, is available on the website [www.unbc.ca/admission/graduate](http://www.unbc.ca/admission/graduate).

### **Normal Time Required for Completion**

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

# **Computer Science (MSc Program)**

Acting Chair: Liang Chen, Professor

Waqar Haque, Professor

David Casperson, Associate Professor

Fan Jiang, Assistant Professor

Andreas Hirt, Term Assistant Professor

Allan Kranz, Senior Lab Instructor

[www.unbc.ca/computer-science/graduate-program](http://www.unbc.ca/computer-science/graduate-program)

Thesis and project options are available. The thesis option prepares graduate students for careers in research or further academic study by requiring the design and completion of an original research program and preparation of a thesis. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as providing a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to upgrade their skills.

All students must participate in a Graduate Seminar course CPSC 704-1.5 for at least two semesters during their course of studies.

## **Thesis Option**

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. MSc students within the Computer Science stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 12 credit hours of approved graduate-level electives (i.e., at or above the 600 level), and a 12 credit-hour thesis (CPSC 793-12). It is expected that the electives consist of scientifically-oriented courses and that the thesis involves an independent investigation resulting in a scientific contribution.

A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), (c) present a public oral defence of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defence.

## **Summary of Thesis Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>12 credit hours</u>
<u>MSc Thesis</u>	<u>12 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

## **Project Option**

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the Computer Science project stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 18 credit hours of approved electives, and a 6 credit-hour project (CPSC 794-6). Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives consist of scientifically-oriented courses, and that the project involves an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the number of courses required for this option, it is restricted to designated specializations that have been decided upon within each program area. Designation of a specialization implies that sufficient resources are available to ensure that required courses within the specialization can be offered to fulfill the requirements for the degree.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, and (c) present a public oral defence of the project to the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

## **Summary of Project Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>18 credit hours</u>



<u>MSc Project</u>	<u>6 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

### **Recommended Progression**

The normal time for completion of the MSc is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses are offered during all September and January Semesters. Students are expected to enrol in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. It is expected that the student has successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

### **Admission Requirements**

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Normally, at least two of the three letters of recommendation must be from individuals who are able to comment on the applicant's academic and research potential.

Additional information about graduate admissions, including application deadlines, is available on the website [www.unbc.ca/admission/graduate](http://www.unbc.ca/admission/graduate).

### **Normal Time Required for Completion**

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

# **Mathematics (MSc Program)**

Acting Chair: Dr. Todd Whitcombe

Lee Keener, Professor Emeritus

Jennifer Hyndman, Professor

Kevin Keen, Professor

Pranesh Kumar, Professor

David Casperson, Associate Professor

Mohammad El Smaily, Associate Professor

Alia Hamieh, Associate Professor

Daniel Ryan, Associate Professor

Andy Wan, Associate Professor

Edward Dobrowoski, Assistant Professor

Stanley Xiao, Assistant Professor

Samuel Walters, Adjunct Professor

Website: [www.unbc.ca/math-statistics](http://www.unbc.ca/math-statistics)

Thesis and project options are available. The thesis option prepares graduate students for careers in research or further academic study by requiring the design and completion of an original research program and preparation of a thesis. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as providing a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to



upgrade their skills.

All students must participate in a Graduate Seminar course (MATH 704-1.5) for at least two semesters during their course of studies.

### **Thesis Option**

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. MSc students within the Mathematics or Statistics stream are required to complete 3 credit hours of Graduate Seminar (two semesters), a minimum of 12 credit hours of approved graduate-level electives (i.e., at or above the 600 level), and a 12 credit-hour thesis (MATH 794-12 or STAT 794-12). It is expected that the electives consist of mathematically- and/or statistically-oriented courses and the thesis involves an independent investigation resulting in an original contribution to the discipline.

A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the selection of appropriate elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), and (c) present a public oral defence of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defence.

### **Summary of Thesis Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>12 credit hours</u>
<u>MSc Thesis</u>	<u>12 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

### **Project Option**

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the project stream are required to complete 3 credit hours of Graduate Seminar (two semesters), a minimum of 18 credit hours of approved electives, and a 6 credit-hour project (MATH 793-6). Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives consist of scientifically-oriented courses, and that the project involves an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the number of courses required for this option, it is restricted to designated specializations that have been decided upon within each program area.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the mathematics and statistics courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, and (c) present a public oral defence of the project to the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

### **Summary of Project Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
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<u>Elective Courses</u>	<u>18 credit hours</u>
<u>MSc Project</u>	<u>6 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

### **Recommended Progression**

The normal time for completion of the MSc is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses are offered during all September and January Semesters. Students are expected to enrol in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. It is expected that the student has successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

### **Admission Requirements**

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Normally, three letters of recommendation are required, two being from individuals who are able to comment on the applicant's academic and research potential.

Additional information about graduate admissions, including application deadlines, is available on the website [www.unbc.ca/admission/graduate](http://www.unbc.ca/admission/graduate).

### **Normal Time Required for Completion**

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

# **Physics (MSc Program)**

Ahmed Hussein, Professor Emeritus  
Mark Shegelski, Professor Emeritus

Ian Hartley, Professor  
Erik Jensen, Professor  
Elie Korkmaz, Professor  
Margot Mandy, Professor  
Matthew Reid, Professor  
Jean-Sebastien Bernier, Assistant Professor  
George Jones, Senior Lab Instructor

Website: [www.unbc.ca/physics](http://www.unbc.ca/physics)

Thesis and project options are available. The thesis option prepares graduate students for careers in research or further academic study by requiring the design and completion of an original research program and preparation of a thesis. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as providing a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to upgrade their skills.

All students must participate in the Graduate Seminar course PHYS 701-(1.5,3) for a total of 3 credit hours during their course of studies.

### **Thesis Option**

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. MSc students are required to complete 3 credit hours of Graduate Seminar, a minimum of 12 credit hours of approved graduate-level electives (i.e., at or above the 600 level), and a 12 credit-hour thesis (PHYS 794-12). It is expected that the electives consist of scientifically-oriented courses and that the thesis involves an independent investigation resulting in a scientific contribution.

A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the appropriate selection of elective courses and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Students will be required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), and (c) present a public oral defence of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defence.

### **Summary of Thesis Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
<u>Elective Courses</u>	<u>12 credit hours</u>
<u>MSc Thesis</u>	<u>12 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

### **Project Option**

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the project stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 18 credit hours of approved electives, and a 6 credit-hour project (PHYS 791-6). Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives consist of scientifically-oriented courses, and that the project involves an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the high weighting of course offerings for this option, it is restricted to designated specializations that have been decided upon within each program area. Designation of a specialization implies that sufficient resources are available to ensure that required courses within the specialization can be offered to fulfill the requirements for the degree.

The 18 elective credit hours must be graduate-level study (i.e. at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the nature of the project undertaken by each student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Student will be required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, (c) give a public lecture on the completed project, and (d) present an oral defence of the project to the examining committee. Normally all course requirements must have been satisfied prior to the oral defence.

### **Summary of Project Option**

<u>Graduate Seminar</u>	<u>3 credit hours</u>
-------------------------	-----------------------

<u>Elective Courses</u>	<u>18 credit hours</u>
<u>MSc Project</u>	<u>6 credit hours</u>
<u>Total Required</u>	<u>27 credit hours</u>

### **Recommended Progression**

The normal time for completion of the MSc is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses are offered during all September and January Semesters. Students are expected to enrol in a seminar course for 3 credit hours of their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the first two academic semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second academic semester, the student should have successfully defended their proposal to the supervisory committee. It is expected that the student will have successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

### **Admission Requirements**

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Normally, at least two of the three letters of recommendation must be from individuals who are able to comment on the applicant's academic and research potential.

Additional information about graduate admissions, including application deadlines, is available on the website [www.unbc.ca/admission/graduate](http://www.unbc.ca/admission/graduate).

### **Normal Time Required for Completion**

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

#### **6. Authorization:**

**SCCC Reviewed:** April 17, 2023

**Program / Academic / Administrative Unit:** Biochemistry, Chemistry, Computer Science, Mathematics and Statistics, Physics

**Faculty:** Science and Engineering

**Faculty Council Motion Number:** FSE FC 2023.03.10.19

**Faculty Council Approval Date:** March 10, 2023

**Senate Committee on Indigenous Initiatives Motion Number:**

**Senate Committee on Indigenous Initiatives Meeting Date:**

#### **7. Other Information**

**Attachment Pages:**   0   pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.32

**Moved by:** Kathy Lewis

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change to the calendar description for the Minor in Russian Studies, on page 187 of the 2022/2023 undergraduate calendar, be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The Minor in Russian Studies last had an active student in 2016. Since its introduction in 1999, 17 students have declared the minor and of those, only 7 went on to complete the minor. The last student to complete the minor graduated in 2009. All but three of the courses required for the minor have been parked or deleted.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

### Russian Studies

Michel Bouchard, Professor (Anthropology)  
Gail Fondahl, Professor (Geography)  
Gary Wilson, Professor (Political Science)  
Website: [www.unbc.ca/international-studies/russian-studies](http://www.unbc.ca/international-studies/russian-studies)

### Minor in Russian Studies

This minor is designed to provide students with an interdisciplinary course of study of Russia as a complement to their major program. The minor requires students to take a total of 21 credit hours.

To fulfill the minor, students must successfully complete the following courses:

### Area Studies

GEOG 222-3 World Regions: Russia  
INTS 200-3 Contemporary Russia  
POLS 311-3 Russian Politics and Society

### Additional Requirements

POLS 405-3 Topics in Society and Democracy

**Note:** Students intending to pursue advanced Russian studies are strongly recommended to take the second year level Russian language courses:

## **Transfer Credits**

Courses taken in other programs or at other universities (including those in Russia) may be counted as courses towards the minor requirements with permission from the Russian Studies Committee

### **5. Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**

## **~~Russian Studies~~**

~~Michel Bouchard, Professor (Anthropology)~~

~~Gail Fondahl, Professor (Geography)~~

~~Gary Wilson, Professor (Political Science)~~

~~Website: [www.unbc.ca/international-studies/russian-studies](http://www.unbc.ca/international-studies/russian-studies)~~

## **~~Minor in Russian Studies~~**

~~This minor is designed to provide students with an interdisciplinary course of study of Russia as a complement to their major program. The minor requires students to take a total of 21 credit hours.~~

~~To fulfill the minor, students must successfully complete the following courses:~~

### **~~Area Studies~~**

~~GEOG 222-3 World Regions: Russia~~

~~INTS 200-3 Contemporary Russia~~

~~POLS 311-3 Russian Politics and Society~~

### **~~Additional Requirements~~**

~~POLS 405-3 Topics in Society and Democracy~~

~~**Note:** Students intending to pursue advanced Russian studies are strongly recommended to take the second year level Russian language courses:~~

## **~~Transfer Credits~~**

~~Courses taken in other programs or at other universities (including those in Russia) may be counted as courses towards the minor requirements with permission from the Russian Studies Committee~~

### **6. Authorization:**

#### **SCCC Reviewed:**

**Program / Academic / Administrative Unit:** Russian Studies

**Faculty:** Indigenous Studies, Social Sciences and Humanities

**Faculty Council Motion Number:** FISSSHFC.2023.04.20.09





Motion Number (assigned by S-202305.35  
Steering Committee of Senate): \_\_\_\_\_

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED MOTION**

**Motion:** That the following list of courses be excluded from the parking list (Table 1) and parked (Table 2).

**Effective Date:** June 1, 2023

**Rationale:** S-201804.15 laid out the process for parking courses that appear in the Academic Calendars but have not been offered in 5 years or more. If a course was last offered prior to May 2018, it was placed on the parking list. If a Program Chair wished to remove a course from the parking list, they were instructed to provide rationale to their Faculty Dean. The remaining list of courses will be parked on June 1, 2023.

**Motion proposed by:** Kimberly Read, Katie Bracey

**Academic Program:** Office of the Registrar

**Implications for Other Programs / Faculties?** Yes, all programs have been contacted and have had the opportunity to remove courses from the parking list. The rationale for keeping such courses in the Calendars was submitted to the Faculty Deans.

**Faculty:** Faculty of Business and Economics  
Faculty of Environment  
Faculty of Human and Health Sciences  
Faculty of Indigenous Studies, Social Sciences and Humanities  
Faculty of Science and Engineering

**Faculty Council / Committee Motion Number:** N/A

**Faculty Council / Committee Approval Date:** N/A

**Attachment Pages (if applicable):**  3  pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.34

**Moved by:** Todd Whitcombe

**Seconded by:** Kriston Rennie

**Committee Decision:** CARRIED

**Approved by SCAAF:**  May 17, 2023   
**Date**

  
**Chair's Signature**

**For recommendation to**  ✓ , **or information of** \_\_\_\_\_ **Senate.**

Table 1: Courses to be excluded from parking for 2023 (with Faculty Deans' support)

SUBJECT	COURSE	TITLE	LAST OFFERING (With Enrollment)
ANTH	214	Anthropology of Europe	201705
ANTH	220	Introduction to Primatology	201105
ANTH	230	Introduction to Forensic Anthropology	201801
ANTH	240	The Neandertals	201405
ANTH	400	Thinking Through Anthropology: Ideas for a Better World	200701
ANTH	406	Feminist Perspectives in Anthropology	201705
ANTH	420	Races, Racism, and Human Biology	201205
ANTH	421	Ethnographic Field Methods	201703
ANTH	600	Advanced Anthropological Theory	200701
ANTH	605	Landscapes, Place and Culture	201505
ANTH	606	Feminist Perspectives in Anthropology	201705
ANTH	607	British Columbia Ethnography	201405
ANTH	614	Religion, Ideology, and Belief Systems	201101
ANTH	616	Archaeological Survey and Mapping	NONE
ANTH	617	Excavation and Field Interpretation in Archaeology	NONE
ANTH	618	Archaeology and First Nations	NONE
ANTH	620	Races, Racism, and Human Biology	NONE
ANTH	621	Ethnographic Field Methods	201703
ANTH	622	Ethnographic Research Project	201703
ANTH	623	Urban Anthropology	200701
ANTH	630	Stone Tools in Archaeology	201801
ANTH	651	Traditional Use Studies	200503
BCMB	601	Basic Science of Oncology	201105
BCMB	603	Advanced Nucleic Acids	201501
BCMB	706	Bioinformatics Tools	NONE
CPSC	199	Introductory Special Topics I	201801
CPSC	442	Parallel Computing	201701
CPSC	472	Knowledge Based Systems	201705
CPSC	475	Multiagent Systems	201801
CPSC	642	Parallel Computing	201701
CPSC	672	Knowledge Based Systems	201705
CPSC	675	Multiagent Systems	201801
CPSC	690	Computing Project I	201101
CPSC	720	Advanced Programming Languages	201303
CPSC	741	Advanced Topics in Distributed Computing	201701
ENGL	386	19th Century Literature in the United States	201401
ENGL	640	Advanced Studies in Postcolonial Literature	201405
ENGL	650	Advanced Studies in Comparative Literature	201705

ENSC	302	Low Carbon Energy Development	201505
ENSC	303	Energy Systems and Sustainability	201605
FNST	280	Aboriginal Medicines I - Harvesting and Preservation	201405
FNST	281	Aboriginal Medicines II - Administering and Ethics	200903
FNST	317	Aboriginal Healing Practices	200503
FNST	413	Topics in Aboriginal Women's Studies	201705
FNST	423	A Study of a First Nations Language Family and its Linguistic Relatives	NONE
FNST	607	Indigenous Perspectives on Race, Class, Gender and Power	201405
FNST	613	Themes in Aboriginal Women's Studies	201505
FNST	651	Traditional Use Studies	201501
HHSC	110	Basic Microbiology	200801
HHSC	111	Anatomy and Physiology I	201405
HHSC	112	Anatomy and Physiology II	201501
HHSC	600	Critical Social and Health Issues in Northern Communities	200501
HHSC	607	Cultural Perspectives on Health and Illness	NONE
HIST	280	Colonial Latin America	201501
HIST	302	The Prairie West	201701
HIST	311	History of Feminism	201001
HIST	334	Lectures in Legal History	NONE
INTS	410	Environment and Development in the Circumpolar North	200701
INTS	640	Environment and Development in the Circumpolar North	200701
MATH	405	Topology	201701
MATH	450	Combinatorics	201405
MATH	621	Field Theory	201001
MATH	650	Combinatorics	201405
MATH	655	Graphs and Algorithms	201005
MATH	705	Complex Analysis	NONE
MATH	720	Topics in Algebra and Logic	201505
MATH	725	Topics in Topology	201601
NRES	712	Spatial and Temporal Analyses	201505
NRES	733	Plant-Animal Interactions	201401
NRES	737	Evolutionary Biology	201601
PHYS	606	Subatomic Physics	NONE
PHYS	710	Advanced Quantum Mechanics	201801
PHYS	730	Advanced Nuclear Physics	NONE
PHYS	740	Elementary Particle Physics	NONE
POLS	302	How Government Works	201505
POLS	309	Politics and Society in China	201305
PSYC	417	Behaviour Modification	201601
PSYC	631	Psychopathology	201401
PSYC	815	Social Psychology	201401
PSYC	820	Health Psychology	201205
PSYC	825	Cognitive Neuropsychological Assessment	NONE

PSYC	826	Personality Assessment	NONE
PSYC	830	Psychological Interventions	NONE
PSYC	845	Developmental Psychology	NONE
WMST	302	Women and the Contemporary World	201005
WMST	311	History of Feminism	201703

Table 2: The following courses **will be parked** effective June 1, 2023

SUBJECT	COURSE	TITLE	LAST OFFERING (With Enrollment)
COMM	315	International Accounting	201801
DISM	720	Disability Management Issues	201303
FNST	145	Tsilhqot'in Language: Level 1	201603
FNST	146	Tsilhqot'in Language: Level 2	201605
FNST	147	Tsilhqot'in Culture: Level 1	201605
FNST	148	Tsilhqot'in Culture: Level 2	NONE
FNST	164	Dakelh/Carrier Culture: Level 2	201101
FNST	167	Tsimshian Culture: Level 1	201701
FNST	168	Tsimshian Culture: Level 2	200705
FNST	245	Tsilhqot'in Language: Level 3	201701
FNST	246	Tsilhqot'in Language: Level 4	201801
FNST	261	A First Nations Culture: Level 3	200301
FNST	262	A First Nations Culture: Level 4	NONE
FNST	263	Dakelh/Carrier Culture: Level 3	200005
FNST	264	Dakelh/Carrier Culture: Level 4	200101
FNST	267	Tsimshian Culture: Level 3	NONE
FNST	268	Tsimshian Culture: Level 4	NONE
FNST	273	Gitxsan Culture: Level 3	NONE
FNST	274	Gitxsan Culture: Level 4	NONE
FNST	606	Indigenous Issues in International Perspective	201401
FNST	623	A Study of a First Nation's Language Family and Its Linguistic Relatives	NONE
FNST	624	The Literature of a First Nation	NONE
HIST	200	Historical Methodology: An Introduction to the Work of the Historian	200505
HIST	326	History Through Film	201601
INTS	207	Contemporary Latin America	NONE
INTS	220	Global Economic Shifts	201705
INTS	307	Global Resources	200901
NRES	703	Integrated Resource Management	201801
ORTM	612	Issues and Trends in Recreation and Tourism	201701
POLS	338	Parties and Elections	201405
POLS	400	Classics in Political Philosophy	201801
POLS	600	Classics in Political Philosophy	201801
SOCW	445	Social Work and Cross-Cultural Practice	201603
WMST	307	Qualitative Research Methods	NONE

## Parking Courses

The primary purpose of park of courses that are listed in the calendar but are not being offered is to provide reliable information on what courses are actually available to students. It is also designed to encourage programs to review their course offerings and the various factors that determine what should be offered.

### Parking:

1. On the first working day of February the Office of the Registrar will compile a list of courses that have not been offered in the last five years (effective January semester).
2. This list will be distributed to the Provost, the Deans and the Chairs.
3. There will be a 28 day reviewing period from the first working day of February.
4. During the review period chairs of the academic units may provide written rationale to their Dean as to why a course should remain on the active list.
5. Courses with supported rationale from both the Chair and the Dean will move to the March SCAFF Meeting.
6. On the first working day of April courses on the list will be parked.
7. If a course has been parked for three years the course will be deleted effective the first working day of April.
8. At the April Senate meeting, a report be included on the consent agenda that will provide the list of courses that will be parked.

Courses that have been parked may be reactivated.

### Reactivating:

1. Request reactivation of parked course to [academic.calendar@unbc.ca](mailto:academic.calendar@unbc.ca)
2. The Office of the Registrar will provide the Calendar Entry from when the course was parked
  - a. If there are no changes requested to Calendar Entry – motion to activate course will move to SCAFF.
  - b. If changes are required:
    - i. Minimal changes (ie. Change to pre-requisite, small title change or limited description change): SCAFF Proposed Revision of Calendar Entry motion form completed and submitted to SCCC.
    - ii. Substantial changes (ie. Title and course description change): SCAFF New Course Approval Motion Form completed and submitted to SCCC.

Motion Number (assigned by  
Steering Committee of Senate): S-202305.36

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED MOTION**

**Motion:** That the Memorandum of Understanding between UNBC and LaSalle College Vancouver Inc. be approved as proposed.

**Effective Date:** Upon entering into the agreement (date of signatures)

**Rationale:** To join efforts to develop projects and assess opportunities for mutually beneficial collaboration.

**Motion proposed by:** Dr. Wendy Rodgers

**Academic Program:** Initially School of Business, but not exclusive

**Implications for Other Programs / Faculties?** Dependent upon project detail

**Faculty(ies):** Initially Business and Economics, but not exclusive

**Faculty Council / Committee Motion Number(s):** Not applicable

**Faculty Council / Committee Approval Date(s):** Not applicable

**Attachment Pages (if applicable):** 5 pages

**INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING**

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF 202305.36

**Moved by:** Wendy Rodgers

**Seconded by:** Rebecca Schiff

**Committee Decision:** CARRIED

**Approved by SCAAF:** May 17, 2023  
**Date**

  
**Chair's Signature**

**For recommendation to** ✓, **or information of** \_\_\_\_\_ **Senate.**

**MEMORANDUM OF UNDERSTANDING**

THIS MEMORANDUM OF UNDERSTANDING (“MOU”), dated as of May \_\_, 2023, is made and entered by and between:

**University of Northern British Columbia**, a corporation continued under the University Act of British Columbia, having an office at 3333 University Way, Prince George, BC V2N 4Z9, (“UNBC”)

and

**LaSalle College Vancouver Inc** incorporated under the laws of British Columbia, Canada, with its registered office located at 2665 Renfrew Street, Vancouver, BC V5M 0A7 (“LCV”).

UNBC and LCV shall hereinafter individually be referred to as a “Party” and collectively as the “Parties”.

**WHEREAS** UNBC is a publicly funded research university legislated by the province of British Columbia;

**WHEREAS** LCV is considered a boutique-design school offering applied arts programs that help graduates build rewarding, lifelong careers with more than 30 programs located at Vancouver (the “Territory”);

**WHEREAS** the Parties intend to join efforts to develop projects and assess opportunities in collaboration as contemplated hereafter in the Territory (the “**Project(s)**”);

**WHEREAS** the Parties understand and acknowledge that this agreement merely constitutes a statement of their mutual intentions and discussions in connection with Projects, and therefore does not constitute a binding agreement upon any party;

**WHEREAS** the terms and conditions of this MOU are valid and effective from the date on which the MOU is entered into by the Parties;

**NOW, THEREFORE**, in consideration of the premises and mutual covenants herein contained, the Parties hereby agree as follows:

**1. PURPOSE**

- 1.1. The purpose of this MOU is to register and regulate the initial understandings of the Parties in connection with any Project. It is understood that the terms and conditions of an eventual agreement for a specific Project (“Participation Agreement”) will be negotiated and contracted between the parties at a later date.

**2. TERM AND NEGOTIATION CONDITIONS**

- 2.1. This MOU will be in effect for a period of two (2) years expiring April 30, 2025 (the ‘Term”).
- 2.2. The Parties agree to make reasonable efforts to reach a Participation Agreement on each



proposed Project.

2.3. The Parties shall have six (6) months from the first proposal of each Project to arrive at a Participation Agreement for the individual Project.

2.4. The initial Project under consideration includes the following:

- Create an articulation agreement with LCV Associate of Arts Business Concentration to a Bachelor level UNBC business-related degree;
- Discuss potential co-delivery of a business-related Bachelor degree;
- Discuss pathways to and from LCV credentials to UNBC credentials; and
- Discuss mutually beneficial financial models including net revenue sharing.

### **3. COSTS AND EXPENSES**

3.1. Each Party shall bear its own costs and expenses incurred that are related to this MOU and to any Definitive Agreement.

### **4. INTELLECTUAL PROPERTY**

4.1. The Parties agree that all intellectual property including but not limiting trademarks, copyright, patents, design rights and know-how related to the Project belong to the party who developed such intellectual property, being liable to any damages caused as a result of a breach to this provision.

### **5. CONFIDENTIALITY**

5.1. “Confidential Information” means any information provided by one Party (the “Provider”) to the other (the “Recipient”) relating to a Project, whether written or otherwise. In order to constitute Confidential Information for the purposes of this Agreement, the Provider must clearly identify such information in writing as being confidential, or if the disclosure takes place orally or in some other non-tangible form, the Provider must summarize it in writing and identify it as being confidential within ten (10) days of the disclosure. Furthermore, such information will not be considered Confidential Information for the purposes of this Agreement if and when it:

- (i) is made subject to an order by judicial or administrative process requiring it to be disclosed;
- (ii) is published or becomes available to the general public other than through a breach of this Agreement;
- (iii) is obtained by the Recipient from a third party with a valid right to disclose it, provided that said third party is not under a confidentiality obligation to the Provider;
- (iv) is independently developed by employees, agents or consultants of the Recipient who had no knowledge of or access to the Confidential Information; or
- (v) was possessed by the Recipient prior to its receipt from the Provider

In accordance with the Freedom of Information and Protection of Privacy Act, R.S.B.C. 1996, c. 165, (“FIPPA”), the Recipient will keep and use all Confidential Information in confidence solely for the purpose set forth in this agreement and any subsequent Participation Agreement will not disclose any part of Confidential Information to any person, firm, corporation, or other entity. Without limiting the generality of the foregoing, the Recipient will not use, manufacture, or sell Confidential Information or any device or

means incorporating any Confidential Information, and will not use any Confidential Information as the basis for the design or creation of any device or means beyond the scope of the Project. Notwithstanding any termination or expiration of this Agreement, the obligations of confidentiality in this section will survive and continue to be binding upon the Recipient, its successors, and assigns until three (3) years after such termination or expiration.

- 5.2. LCV acknowledges that the University is subject to the access and privacy provisions of the FIPPA which creates a right of access to records under the custody and control of public bodies subject to specific, limited exceptions.

## 6. TERMINATION

- 6.1. Either Party can withdraw from this MOU at any time with no penalty by delivering a 30-day prior written notice to the other Party.
- 6.2. This MOU shall be automatically terminated after the Term or upon the occurrence of any of the following events:
- 6.2.1. issuance of a withdrawal notice by either Party, whether with or without fair cause;
  - 6.2.2. in case an Event of Default takes place.
- 6.3. Each of the following events shall constitute an “Event of Default”:
- 6.3.1. a Party commits any substantial breach of any of the terms or conditions of, or omits to perform or observe any of its substantial undertakings or obligations under this MOU and the same shall not have been remedied within ten (10) days of the relevant Party being notified of such breach or omission;
  - 6.3.2. a Party's participation in the Project is prevented or materially restricted by the action of any government of state or agency of the same;
  - 6.3.3. a Party suffers financial distress to the extent of a creditor taking possession of any substantial part of the business, or any action is taken or legal proceeding started pursuant to the bankruptcy or insolvency of a Party, or the winding-up, liquidation or dissolution of a Party and/or a Party suspends or ceases to carry on its business.

## 7. NOTICE

- 7.1. Except as otherwise specifically provided, all notices authorized or required between the Parties by any of the provisions of this MOU, shall be in writing, in English and delivered in person or by courier service or by electronic mail and addressed to such Parties as designated below. A notice given under any provision of this MOU shall be deemed delivered only when received by the Party to whom such notice is directed, and the time for such Party to deliver any notice in response to such originating notice shall run from the date the originating notice is received. “Received” for purposes of this Section shall mean actual delivery of the notice to the address of the Party to be notified specified in accordance with this section. Each Party shall have the right to change its address at any time and/or designate that copies of all such notices be directed to another person at another address, by giving written notice thereof to the other Party.

**UNBC**  
3333 University Way  
Prince George, BC V2N 4Z9  
Or by email to:  
Dr. Geoff Payne (Geoff.payne@unbc.ca)

**LaSalle College Vancouver Inc**  
2665 Renfrew Street  
Vancouver, BC V5M 0A7  
Or by email to:  
Dr. Jason Dewling, President Western Canada and Asia Pacific  
([jdewling@lasallecollegevancouver.com](mailto:jdewling@lasallecollegevancouver.com))

## **8. GOVERNING LAW AND DISPUTE RESOLUTION**

This MOU shall be governed by, and be construed in accordance with, the laws of the Province of British Columbia and the laws of Canada applicable in British Columbia, which shall be deemed to be the proper law of this Agreement.

## **9. MISCELLANEOUS**

- 9.1. **Assignment.** Neither Party shall assign any of its rights and/or obligations in this MOU to any third party without the prior written consent of the other Party.
- 9.2. **Amendment.** This MOU may not be amended or modified except by written agreement signed by each of the Parties.
- 9.3. **Severability.** Any provision in this MOU that is illegal, void or unenforceable will be ineffective to the extent only of such illegality, voidness or unenforceability and such illegality, will not invalidate any other provision of this MOU.
- 9.4. **No Waiver.** Any failure of either Party to enforce any of the provisions of this MOU or to require compliance with any of its terms at any time during the term of this MOU shall in no way affect the validity of this MOU, or any part hereof, and shall not be deemed a waiver of the right of such Party thereafter to enforce any and each such provisions.
- 9.5. **Headings.** Titles and headings of all Sections of this MOU are for convenience of reference and do not form a part of this MOU and shall not in any way affect the interpretation of this MOU.
- 9.6. **Third-Party Beneficiaries.** The provisions of this MOU are intended for the sole benefit of the Parties hereto and their respective successors and permitted assigns, and no other person shall have any rights hereunder.
- 9.7. **Entire Agreement.** This MOU constitutes the entire agreement between the Parties hereto in regard to the subject matter hereof, and supersedes any and all prior agreements, communications and understandings, whether written or oral, regarding such subject matter.

9.8. **Counterparts.** This MOU may be executed in more than one counterpart, each of which shall be deemed to be an original, and all of which together shall constitute one and the same document.

9.9. **Third parties.** Any commercial arrangement with third parties shall be subject to separate legally binding agreements as agreed by the Parties.

9.10. **Independent Parties.** Each Party hereby declares to be an independent contractor, with no employment relationship between UNBC and the persons employed by the LCV.

By signing below, the Parties agree to the terms of this MOU as of the day and year first above written.

For **LaSalle College Vancouver Inc**

For **University of Northern British  
Columbia**

\_\_\_\_\_  
Name: Dr. Jason Dewling  
Title: President, Western Canada Asia Pacific

\_\_\_\_\_  
Name: Dr. Geoff Payne  
Title: President and Vice Chancellor

## International Application Deadlines

The Undergraduate Calendar notes that the deadline for international students to apply is March 01; however, historically, late undergraduate applications for both domestic and international students have been accepted until the start of a semester. Accepting late applications from international students up until the first day of the semester presents several challenges; the largest one being that it does not allow international students enough time to receive their study permits. It is our recommendation that applications from international undergraduate students should close eight weeks before the start of a semester to allow applicants adequate time to apply for a study permit and prepare for arrival in Canada. While an 8-week cut-off is recommended, the ability to adjust this date based on study permit processing times is also recommended.

Processing international undergraduate applications up until the start of the semester has detrimental effects on students and staff, hindering our recruitment efforts. Currently, an 8-week cut off is the minimum amount of time that should be considered for application cut off as once an undergraduate international student applies there are several steps require before they can arrive in Canada; the rationale is as below:

- 1) First, applicants must wait for an admission decision, documents and transcripts must be evaluated. If required information is missing, the decision is delayed.
- 2) Once they receive an admission decision, the applicant must pay the deposit.
- 3) After a deposit is received, letters of offer will be sent, and the student can use these to apply for their study permit.
- 4) Depending on individual situations, applicants need to meet a variety of requirements to apply for a study permit. They may require biometrics, English language testing, medical exams, visas and/or additional documents for family members that may be accompanying them. This can take many weeks.
- 5) Processing times for study permits can vary by location and are currently estimated at 7 weeks.

Currently, as part of the international admissions process, once an applicant is offered admission, they have 14 days to then pay their deposit. The admissions teams have been very flexible with this requirement, allowing students to pay when they can. It is recommended that we keep this flexibility unless students have outstanding deposits after the 8-week deadline. After the deadline, the deposit requirement should be strictly adhered to, and applications closed if a deposit is not received.

Based on current study permit processing times processing times, a more reasonable cut off would be 10-12 weeks. Eight weeks is a bare minimum but takes into consideration that some international students may be prepared to apply for a study permit. Or, if they are from the USA, they may be eligible to apply at the border when entering Canada. Below the major impacts of late applications are broken down into three categories: student arrival, workflow, and recruitment efforts.

### Student Arrival

Late applications cause a lot of stress in the pre-arrival process. Students are waiting for study permit approval to make plans. They often end up having to change their semester which requires them to pay further fees. It also means that they may defer to a semester that is less than ideal. A January or May start will have less course options for their program, orientation is offered on a smaller scale and in the summer many UNBC services are shut down.

While waiting for study permit decisions students often try to see how late they can attend. While we encourage students to attend by the first week of class, students will often try to push for later. This has several impacts:

- Students miss orientation as well as their first classes where guidelines and expectations are reviewed.

- They do not have the proper time to adjust to life in Canada/UNBC before the semester starts (learn the bus system, get a cell phone, buy groceries, open a Canadian bank account, etc.).
- They do not have the chance to sort out their schedule with an advisor, add/drop classes or opt/in or out of the health care plan.
- They may have missed assignments or participation marks, which often cannot be made up.
- Late arrival students often take up a space in housing. They are reluctant to give up their spot and hopeful they can arrive late. They sometime do not let housing know in time that they will not be arriving to get their deposits back. This has two effects; students lose monies in housing deposits and fees and as well as taking up a spot that may have been able to go to a different student that was prepared to attend (see [housing cancellation data](#) for more information).

### Workflow

First, late arrivals often disrupt the processes put into place to help support and orientate students for arrival. While one-off situations are normal, if there are large numbers of international students arriving late it impacts the ability of staff to help them all adequately and properly introduce them into the UNBC community. It is recognized that closing applications eight weeks ahead of the semester start will not stop late arrivals, but it will give us a set and complete list of expected students that will enable us to follow up and send out communications. We can ensure all prospective students have received the required information and that we are advising late arrival students appropriately.

Second, when late applications are processed there is a high chance that a student will request a deferral or need to re-apply to the next semester intake. This not only requires additional processing and duplication of work for staff, but it also requires additional fees and work for the applicant.

Third, for the International Student Recruitment Officer, counselling students through the decision-making process is very time-consuming. Being able to communicate with students as a group through email and information sessions allows for a better use of time. Late applications result in staff spending time communicating and orientating students individually and potentially spending time on potential students that do not arrival at all. This is time taken away from counselling other prospective or admitted students. Being able to spend time preparing prospective students for arrival helps to set them up for success. Offering pre-arrival sessions to groups allows them to make connections with other incoming students.

### Recruitment Efforts

Having clear deadlines for applications will help aid recruitment efforts as international agents and UNBC teams can transition their efforts to focusing on the next semester. It is important to remember that international students have a variety of pressures and motivations to study abroad and will sometimes ignore academic based advice. Students may think they are making the best decision to start their studies as soon as possible, while not yet understanding the implications of not having a strong start to their academic journey. Agents and recruiters can often have a difficult time convincing students to apply to future semesters when an earlier intake is still technically available. A lack of understanding from applicants of the study permit processing times and the Canadian/UNBC system puts the responsibility on us to help students navigate the system and set deadlines.

- Clear deadlines would allow for better onboarding and orientation plans that would complement retention efforts. We could build email campaigns that include all students.
- Clear deadlines would allow for stronger messaging. Instead of giving students options that are not viable, recruiters can focus on better possibilities.
- A set list of applicants would give us the ability to track students more accurately for arrivals, deferrals, declines and no shows.

### Student Application Dates and Registration

Below shows a chart of applicant data for the fall semester. The chart shows the month a student applied and whether they subsequently registered.

Month of application	Not Registered							Not Registered Total	Registered							Registered Total	Grand Total	% Registered
	201605	201705	201805	201905	202005	202105	202205		201605	201705	201805	201905	202005	202105	202205			
Oct	8	24	11	24	12	14	14	107	2	2	3	2	4	2	2	17	124	14%
Nov	19	20	28	38	33	19	60	217		5	4	4	3	1	6	23	240	10%
Dec	30	26	38	26	37	39	212	408	4	4	1	9	1	4	4	27	435	6%
Jan	32	54	59	63	69	60	184	521	6	7	9	8	8	4	15	57	578	10%
Feb	45	29	48	47	58	39	131	397	2	10	10	12	7	7	10	58	455	13%
Mar	33	29	36	57	50	47	70	322		6	2	9	13	5	4	39	361	11%
Apr	10	13	24	49	28	47	43	214		2	4	5	3	5	12	31	245	13%
May	14	13	14	51	16	50	53	211	1	4	4	12	2	6	8	37	248	15%
Jun	10	5	6	24	11	12	29	97	1	1	4	10	1	3	2	22	119	18%
Jul	4	4	4	14	10	7	16	59	3	7	4	5	1	2	5	27 <sup>1</sup>	86	31%
Aug	3	1	2	5	3	2	7	23	6	2	1	2	1			12 <sup>2</sup>	35	34%
Sep	3	3	6	10	2	2	3	29	1					1	1	3 <sup>3</sup>	32	9%
Grand Total	211	221	276	408	329	338	822	2605	26	50	46	78	44	40	69	353	2958	12%

This chart shows an increase in registration for students that apply in July or August (after the proposed deadline), but investigation shows that a number of these students already held study permits and were either already in BC or attending UNBC in another capacity. Without these students the number of registered students drops to 11% and 5.7% (below the average registration rate of 15% and the overall registration rate of 12%). This demonstrates that while setting deadlines for international students is important, we must allow for applications from in-country study permit holders.

<sup>1</sup> Of the 27 students registered, 17 were already in Canada (ie. transfer students or international high school students). 10 were new to UNBC (1 Sweden, 1 Russia, 2 United States, 2 Nigeria, 1 South Africa, 1 Pakistan, 2 Somalia); thus, 11% of the applications received during this month attend.

<sup>2</sup> Of the students admitted in this month, 10 previously were already in Canada. 2 were new (though 1 of these applications was a re-application); thus, 5.7% of applications received during this month attend.

<sup>3</sup> 2 of these applicants were already in Canada, and 1 was an exceptional circumstance.

Notes:

- This data does not include deferral information and therefore is not accurate for application conversion rates.
- As admissions officers will often recommend to late applicants that they should move their application to the following semester, this data does not capture the overall number of students originally applied or that followed the advice and move their applications. However, it is important to keep in mind the additional steps and communication that this requires in the admissions process.

**International Student Housing**

	<b>Cancelled Before Application Deadline</b>	<b>Cancelled Before or On Move-In Day</b>	<b>Cancelled After Move-In Day</b>
<b>2022/2023</b>	0	15	20
<b>September Semester</b>	0	7	10
<b>January Semester</b>	1	7	8