

## **SENATE MEETING OPEN SESSION MINUTES**

November 25, 2020

3:30 – 5:30 PM

Zoom Only

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**Present:** J. Allen, B. Annear (Secretary of Senate), A. Aravind, J. Bankole, R. Budde, A. Constantin, M. Dale, B. Deo, D. Desai, D. Gilchrist, B. Greenall, H. Harder (non-voting), I. Hartley, L. Haslett, C. Ho Younghusband, D. Huber, P. Jackson, H. Kazemian, G. Keeler, T. Klassen-Ross, E. Korkmaz, K. Lewis, A. Mitchell, C. Onabola, A. Palmer, A. Parent (Recording Secretary), L. Parent (Vice-Chair), G. Payne (Chair), S. Rader (non-voting), B. Owen, L. Roldan-Flores (non-voting), A. Schinkel, R. Somani (non-voting), A. Sommerfeld (non-voting), K. Stathers, T. Tannert, T. Tribe (non-voting), L. Troc, C. Whalen, R. Wheate, J. Wimmers-Klick, S. Zogas

**Regrets:** J. Chen (non-voting), T. Fuson (non-voting), M. Greenwood, C. Hofsink, B. McGill, D. Nyce, M. Peterson, L. Roodenburg, M. Wels-Lopez, P. Winwood (non-voting)

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The meeting commenced at 3:32 p.m.

The Chair noted one Faculty Senator vacancy for the Faculty of Human and Health Sciences.

The Chair announced the passing of Dr. Fred Gilbert, UNBC's founding dean of the Faculty of Natural Resources and Environmental Studies who died on Nov. 2 at the age of 79.

The Chair welcomed Rahim Somani, Vice President, Finance and Administration and Henry Harder, Vice Provost, Indigenous Initiatives to Senate.

The Chair noted that a Call for Nominations will be going out for Faculty vacancies on the Search Committees for the Dean, Faculty of Environment and the University Librarian.

### **1.0 Acknowledgement of Territory**

The Chair acknowledged that the Senate meeting was on the traditional territory of the Lheidli T'enneh and appreciated the relationship that UNBC has with them and the many other First Nation communities in the regions.

### **2.0 S-202011.01 Approval of the Agenda**

Kazemian

That the agenda for the November 25, 2020 Open Session of Senate be approved as presented.  
CARRIED

### **3.0 Presentation – No presentation in the Open Session**

### **4.0 Approval of the Minutes**

#### **S-202011.02 Approval of the Minutes**

Kazemian

That the Minutes for the October 28, 2020 Public Session of Senate be approved as presented.

CARRIED

## 5.0 Business Arising

### **S-202011.03**

#### **Changes to New Program Approval – Master of Arts in Counselling Psychology**

Ho Younghusband

That, on the recommendation of the Senate Committee on Academic Affairs, the new Master of Arts in Counselling Psychology be approved as proposed.

Proposed semester of first offering: September 2021

CARRIED

### **S-202011.04**

#### **New Program Approval – Master of Arts in Counselling Psychology**

Zogas

That, on the recommendation of the Senate Committee on Academic Affairs, the proposed creation of the Master of Arts (MA) in Counselling Psychology within the Department of Psychology be approved as proposed.

Proposed semester of first offering: September 2021

CARRIED

Details of the approved calendar text are as follows (for revisions, deleted text indicated by ~~striketrough~~, new text indicated by underline, and [commentary, where included, in Courier New font within square brackets]):

## **Psychology (MA Counselling Psychology Program)**

Paul Siakaluk, Professor and Chair

Linda O'Neill, Associate Professor

John Sherry, Assistant Professor

The MA in Counselling Psychology is designed to prepare counsellors to provide professional services and leadership in counselling and psycho-educational programs offered in social service agencies, community health organizations, schools, and post-secondary institutions. Students have the opportunity to choose the type(s) of counselling they wish to focus upon, based on availability, and to complete periods of supervised clinical practice in practicum settings that are relevant to their interests. The program includes an integrated core of required courses, elective courses, and a thesis, project or comprehensive examination. Counselling students are required to complete a minimum of eight required courses, three elective courses, and a comprehensive examination. After completion of at least 12 credit hours of coursework, students can apply to the Department of Psychology to enter a Thesis or Project route. If approved, the Thesis route consists of eight required courses, a minimum of one elective course, and a research project. If approved, the Project route consists of eight required courses, a minimum of two electives, and a project.

Admission to the MA Counselling Psychology program at the Prince George campus occurs each September; deadline for applications is December 15 of the prior year. Admission to the

program at regional campuses does not normally occur each year and varies in response to demand and resources.

In addition to the admission application requirements outlined in section 1.0 of the Graduate Admissions and Regulations, priority is given to those applicants applying for the MA Counselling Psychology Program who have (a) graduated with a Baccalaureate degree a minimum of two years prior to the admission date to which they are applying, and (b) obtained some paid or unpaid work experience in a helping capacity at a counselling-related or teaching-related setting since receiving their Baccalaureate degree.

Applicants are also required to submit a Curriculum Vitae or Resumé that indicates the number of hours in each employment or volunteer position. A list of any scholarships or publications should also be included.

**Criminal Record Check** In addition to meeting the admission application requirements outlined in Section 1.0 of the Graduate Admissions and Regulations, all applicants to the Psychology Counselling program are required to submit a Criminal Record Check prior to the first day of classes in their entry semester. Domestic applicants must supply a Criminal Record Check result after receiving an offer of admission and before the first day of classes; the result is not required with the application. International applicants must submit a Criminal Record Check result provided by their local police authority upon application, and also are required to submit a British Columbia Criminal Record Check if offered admission. The Office of the Registrar will provide instructions to domestic and international applicants who have accepted offers of admission on how to complete a British Columbia Criminal Record Check.

### **THREE ROUTES to the completion of Counselling Psychology Program**

The Counselling Program includes an integrated set of required and elective courses. Students are accepted into the MA in Counselling Psychology Program under the Comprehensive Examination route leading to the MA degree. During the course of study the student may apply for permission to the program to transfer to the Project or Thesis route. Students may make a special application to the Department of Psychology to enter a Project or Thesis route after they have completed at least 12 credit hours of coursework. It is the student's responsibility to find a faculty member who is willing to supervise them in a Project or Thesis route.

#### **Comprehensive Examination Route:**

The Comprehensive Examination route of study requires the successful completion of a comprehensive examination that evaluates candidates' knowledge of theory and practice in students' field of study. This program route is designed to enhance and reinforce students' knowledge of theory and practice, as well as their interrelationship. The Comprehensive Examination route requires the successful completion of a minimum of 40 credit hours of graduate course credit. This credit must include a minimum of 37 credit hours of graduate coursework and 3 credit hours awarded upon the successful completion of a written comprehensive examination.

#### **Project Route:**

The Project route emphasizes the study of theory and practice and the successful completion of an innovative research and/or development project that addresses a particular aspect of practice or community need. The Project route is designed to develop students' ability to evaluate and improve professional practice

in the discipline. The Project route requires the successful completion of a minimum of 40 ~~semester~~ credit hours of graduate course credit. This credit must include 34 credit hours of graduate coursework and at least 6 credit hours of supervised work culminating in the successful completion of a project.

### **Thesis Route:**

The Thesis route emphasizes academic study, research and the successful completion of a thesis. This degree route is designed to develop students' ability to evaluate theory and practice and conduct research that contributes to the discipline. The Thesis route requires the successful completion of a minimum of 40 credit hours of graduate course credit. This credit must include 31 credit hours of graduate coursework, and at least 9 credit hours of supervised research culminating in the completion of a thesis and the successful defence of it in an oral examination.

### **Curriculum:**

#### **Required Courses**

|            |                                 |
|------------|---------------------------------|
| PSYC 701-3 | Research Design and Methodology |
| PSYC 711-3 | Counselling Theory              |
| PSYC 713-3 | Counselling Skills              |
| PSYC 714-3 | Group Counselling Processes     |
| PSYC 717-3 | Ethics in Counselling           |
| PSYC 719-6 | Counselling Practicum           |
| PSYC 721-3 | Advanced Counselling Skills     |

One of the following research courses is required; the other may be taken as elective credit:

|            |                         |
|------------|-------------------------|
| PSYC 605-4 | Multivariate Statistics |
| PSYC 710-4 | Qualitative Analysis    |

#### **Elective Courses**

|            |   |
|------------|---|
| EDUC 633-3 | Human Development: Implications for Education |
| PSYC 715-3 | Career Counselling                            |
| PSYC 716-3 | Clinical Counselling                          |
| PSYC 718-3 | Family Counselling                            |
| PSYC 722-3 | Counselling for Aboriginal/Indigenous Peoples |
| PSYC 723-3 | Trauma Counselling                            |
| PSYC 724-3 | Child and Youth Counselling                   |
| PSYC 727-3 | Assessment in Counselling                     |
| PSYC 792-3 | Special Topics                                |
| PSYC 793-3 | Directed Reading                              |

#### **Thesis, Project or Comprehensive Examination**

|            |                           |
|------------|---------------------------|
| PSYC 797-3 | Comprehensive Examination |
| PSYC 798-6 | Project                   |

## Psychology (MSc Program)

Steven Cronshaw, Professor Emeritus  
Kenneth Prkachin, Professor Emeritus

Paul Siakaluk, Professor and Chair  
Sherry Beaumont, Professor  
Henry Harder, Professor  
Han Li, Professor  
Daniel Weeks, Professor  
William Owen, Associate Professor  
Annie Duchesne, Assistant Professor  
Lorraine Lavallee, Assistant Professor  
Heath Matheson, Assistant Professor  
James Climenhage, Adjunct Professor  
Tammy Klassen-Ross, Adjunct Professor  
Glenda Prkachin, Adjunct Professor  
Elizabeth Rocha, Adjunct Professor  
Cherisse Seaton, Adjunct Professor  
Julie Howard, Senior Lab Instructor

Website: [www.unbc.ca/psychology](http://www.unbc.ca/psychology)

The MSc in Psychology at UNBC provides breadth in the substantive and methodological areas of Psychology, with a focus on health and human psychology. The MSc provides advanced research and experiential training so that graduates gain skills beneficial to academic and related areas.

### Admission

Applicants must have an Honours degree in Psychology or an undergraduate degree in Psychology (or a related field) with research experience.

Students interested in applying for the MSc in Psychology are responsible for ensuring that all application materials are received at UNBC by the application deadline. Students are required to submit the following for consideration of admission:

- a completed application form;
- a curriculum vitae;
- a letter of interest;
- official transcripts from all post-secondary institutions;
- three letters of reference from academic referees; and
- a copy of a thesis or paper submitted for course work.

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 Psychology MSc Program accepts students for the September Semester

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).

## **Psychology (PhD Program)**

Steven Cronshaw, Professor Emeritus  
Kenneth Prkachin, Professor Emeritus

Paul Siakaluk, Professor and Chair  
Sherry Beaumont, Professor  
Henry Harder, Professor  
Han Li, Professor  
Daniel Weeks, Professor  
William Owen, Associate Professor  
Annie Duchesne, Assistant Professor  
Loraine Lavallee, Assistant Professor  
Heath Matheson, Assistant Professor  
James Climenhage, Adjunct Professor  
Tammy Klassen-Ross, Adjunct Professor  
Glenda Prkachin, Adjunct Professor  
Elizabeth Rocha, Adjunct Professor  
Cherisse Seaton, Adjunct Professor  
Julie Howard, Senior Lab Instructor

Website: [www.unbc.ca/psychology](http://www.unbc.ca/psychology)

The PhD in Psychology at UNBC provides breadth in the substantive and methodological areas of Psychology, with a focus on health and human psychology. The PhD provides advanced research and experiential training so that graduates gain skills beneficial to academic and related areas.

More specifically, the objectives of the PhD program in Psychology are to develop scholars and researchers who can contribute to the larger body of scientific knowledge of psychology through research and have an advanced level of understanding of the psychological sciences, including comprehensive knowledge of contemporary theory and evidence in Psychology and a high level of methodological expertise.

### **Admission**

Applicants must have both a Bachelor's and Master's degree, at least one of which must be in Psychology with a research-based thesis. Students interested in applying for the PhD in

Psychology are responsible for ensuring that all application materials are received at UNBC by the application deadline:

- a letter of interest;
- official transcripts from all post-secondary institutions;
- three letters of reference from academic referees; and
- a copy of a thesis or paper submitted for course work.

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 Psychology PhD Program accepts students for September semester 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).

### Requirements

Students in the PhD program are required to complete a minimum of 12 credit hours of course work consisting of one graduate seminar:

PSYC 800-3                      Graduate Seminar

3 credit hours of research practica:

PSYC 860-(3-6)      Research Practicum

and two courses ~~from~~ of the following:

|            |  |
|------------|--|
| PSYC 810-3 | Cognitive Neuroscience                               |
| PSYC 815-3 | Social Psychology                                    |
| PSYC 820-3 | Health Psychology                                    |
| PSYC 822-3 | Cross-Cultural Communication in Health Care Settings |
| PSYC 825-3 | Cognitive Neuropsychological Assessment              |
| PSYC 826-3 | Personality Assessment                               |
| PSYC 830-3 | Psychological Interventions                          |
| PSYC 831-3 | Psychopathology                                      |
| PSYC 835-3 | Cognition and Learning                               |
| PSYC 845-3 | Developmental Psychology                             |

Required courses in Psychology are offered on a two-year schedule. These courses provide students with the basic foundations upon which to build their PhD research. In addition, students are required to complete successfully a doctoral candidacy examination and a PhD dissertation (PSYC 890-12). The doctoral candidacy examination is tailored to ensure each student is adequately prepared to begin work on the PhD dissertation.

Students must have a Cumulative GPA of 3.33 (B+) or better by the end of their second

semester of registration, and maintain it at B+ or better thereafter.

Students may be required to address deficiencies within their background preparation in Psychology or in their area of concentration that are identified by the Psychology Graduate Committee. Additional courses may be required.

Normally, students take a doctoral candidacy examination by the end of the first year in the program (or 12 credit hours for part-time students). Upon successfully completing the doctoral candidacy examination, and presenting an acceptable dissertation proposal to their supervisory committee, a student is granted PhD Candidate status, and embarks upon completion of the dissertation under the supervision of a Faculty Academic Supervisor. Normally, it is expected that the defence of the dissertation by full-time PhD Candidates take place within three years of acceptance into the program.

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

**Payne**

The President provided an update on COVID-19 and the work being done to keep the campus community safe and the continued assessment of campuses for the implementation of safely protocols for all students, staff and faculty following Provincial Health Office guidelines.

The focus for the UNBC community since the launch of the Fall term has been continually assessing the activities within the UNBC community and the impact of the COVID-19 pandemic on academic delivery, support and research.

The President advised that with the extension of his appointment, K. Lewis' appointment as Acting Vice-President Research has been extended to August 31, 2022.

The President reported that 21/22 budget planning process will continue with University wide consultation into the development of the 21/22 University Budget.

Senator Kazemian asked the following question in advance:

9.1.1 UNBC is facing some permanent budget cuts in the coming years. How do we manage these cuts without impacting our educational and research capacities? For example, cutting budget from research and teaching infrastructure such as research equipment can jeopardize our capacity for securing more research funds and to recruit new graduate students. (Senator Kazemian)

The President indicated that the Principles of our budget remain the same as last year and are:

- Ensure we reduce spending expenses above our revenue
- Significantly reduce dependency on one-time budget adjustments each year for budget balancing
- Invest in the core mission of UNBC students, faculty (teaching and research) and infrastructure to support

This will be year two of a four-year economic sustainability framework. Implement a renewed budget framework and strategy that informs both the 21/22 budget and long-term fiscal responsibility, making decisions that support UNBC's core mandate to ensure economic sustainability.

The President Task Force of Equity, Diversity and Inclusion and the President's Round Table with Students on Confronting Racism at UNBC have met twice and the work of both groups are moving towards identification of actions and the next steps.

Following discussions with individuals and groups within the UNBC community, the President will be undertaking a number a key steps which include the following:

- The launch of a Presidential mandate on confronting racism at UNBC
- The launch of the UNBC Equity Affairs Office to support the UNBC Community
- A University Town Hall on Confronting Racism and Equity, Diversity and Inclusion in early 2021

Questions arose regarding the overall savings or expenses of COVID-19 in various areas such as teaching or student residences.

The President responded that COVID-19 has had a negative impact on the activities across the University resulting in budget shortfalls within our 20/21 budget. The Executive Team has developed an approach to offset these shortfalls which are common across the British Columbia Post-Secondary sector.

## 7.0 Report of the Provost

Dale

The Provost reported that Dr. Harder, Vice-Provost Indigenous Initiatives has been asked and will be recommended to Senate to join the Senate Committee on Academic Affairs.

The Provost reported that he continues chairing weekly meetings of the Readiness Group, previously called the Fall Planning Group, to discuss and give advice about the winter term and beyond, in response to the pandemic and its effects on teaching and learning at UNBC. COVID planning continues with W21 moving to alternative delivery. The group is considering format choices for spring and summer courses. Initial discussions have begun at the Readiness Group and will be looked at by SCAAF on UNBC's future in the post-COVID-19 Higher Education Landscape.

## 7.0 Report of the Provost (5 minutes)

Dale

### 7.1 Academic Re-Structuring

## 8.0 Report of the Registrar

Annear

No report.

## 9.0 Question Period

### 9.1 Written questions submitted in advance

9.1.1 Rumor has it that UNBC is facing some permanent budget cuts in the coming years. How do we manage these cuts without impacting our educational and research capacities? For example, cutting budget form research and teaching infrastructure such as research equipment can jeopardize our capacity for securing more research funds and to recruit new graduate students. (Senator Kazemian) – answered during the President's Report.

### 9.2 Questions from the floor

9.2.1 Can you provide an update on the response to the declaration of Climate Emergency by the UNBC Senate at the January 22, 2020 meeting of Senate? Specifically, are there any plans to start a process to operationalize the declaration? (Senator Jackson)

The President will bring this to the President's Executive Council and report back.

9.2.2 In September we were given a summary of expenditures for legal costs. Would the figures provided be considered normal for our size compared to with other similar institutions? Considering our stressed budget, should we expect similar costs each year? (Senator Wheate)

The President indicated that he was unaware of what the legal costs at other Universities are. He will have the conversation with Senator Somani and report back.

9.2.3 Do we have the FTE numbers for the Winter Semester? (*Senator Budde*)

For the Winter 2021 term, registration opened late on October 5<sup>th</sup> due to the COVID-19 pandemic. Numbers are down but registrations have been steady with increases in the hundreds but numbers are still fluid.

For the Fall 2020 academic term enrolment saw a “flat” enrolment number. There was an increase in headcount (0.7%) and a decrease in FTE (-2.4%). There were also highlights with increased enrolment from both international and graduate students whom spoke on the university’s success in our research mandate and opportunities for students.

9.2.4 There have been many articles indicating that post-secondary institutions will never go back to normal what to you (Provost) think? (*Rader*)

The Provost agreed. Students have found online learning both challenging and rewarding, offering them a choice of where and how they learn. We will be looking at more hybrid course deliveries and online learning.

**10.0 Approval of Motions on the Consent Agenda** **Payne**

**S-2020011.05**

**Approval of Motions on the Consent Agenda**

Schinkel

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

CARRIED

**11.0 Committee Reports**

**11.1 Senate Committee on Academic Appeals**

**Klassen-Ross**

No appeals pending.

**11.2 Senate Committee on Academic Affairs**

**Dale**

**For Approval Items:**

Details of the approved calendar text are as follows (for revisions, deleted text indicated by ~~strikethrough~~, new text indicated by underline, and [commentary, where included, in Courier New font within square brackets]):

An overview of changes to Environmental and Sustainability Studies BA and Joint Majors was included in the meeting package.

Items .06 to .16 were carried as an omnibus motion.

**S-202011.06**

**Change(s) to Degree Requirements – Environmental and Sustainability Studies**

Jackson

That the change(s) to the Environmental and Sustainability Studies (BA Program) degree requirements, on pages 115 - 119 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Date:** September 2021

CARRIED

**Environmental and Sustainability Studies (BA Program)**

Ken Otter, Professor and Chair  
Annie Booth, Professor  
Art Fredeen, Professor  
~~Scott Green, Associate 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. It 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 MATH 150-3 Finite Mathematics for Business and Economics~~

~~or MATH 152-3 Calculus for Non-majors~~

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 225-3 Global Environmental Change: Sustainability  
ENVS 230-3 Introduction to Environmental Policy  
GEOG 204-3 Introduction to GIS  
~~PHIL 202-3 Comparative Religion~~  
or ~~FNST 303-3 First Nations Religion and Philosophy~~

#### Upper-Division Requirement

##### 300 Level

~~ENVS 306-3 Human Ecology~~  
~~ENVS 309-3 Gender and Environmental Studies Gender, Environment and Sustainability~~  
~~ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement for Sustainability~~  
~~ENVS 339-3 Carbon and Energy Management 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 Environmental and Sustainability Policies 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 GEOG 306-3 Critical Development Geographies  
or FNST 306-3 Indigenous Women: Perspectives  
or FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power  
or FNST 416-3 Indigenous Issues in International Perspective [friendly amendment to change title as name of FNST 416 was changed during the consent agenda]  
or FNST 444-3 Experiential Course in First Nations Studies  
GEOG 420-3 Environmental Justice  
or GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making  
~~NRES 421-1 Professional Writing and NRES 422-2 Undergraduate Report~~  
or ~~NRES 430-6 Undergraduate Thesis~~  
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  
or ~~ORTM 408-3 The Psychology of Recreation and Tourism~~

#### 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

ORTM 403-3 International Dimensions in Recreation and Tourism

Communities and Environmental Citizenship

Required

ENPL 301-3 Sustainable Communities: Structure and Sociology

GEOG 206-3 Social Geography

~~GEOG 426-3 Geographies of Culture, Rights and Power~~

Choose ~~six~~ 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

ORTM 407-3 Recreation, Tourism and Communities

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

### ~~Four~~ Five of the following:

ENPL 304-3 Mediation, Negotiation and Public Participation

~~ENPL 305-3 Environmental Impact Assessment~~

~~ENSC 302-3 Low Carbon Energy Development~~

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 171-3 Métis Studies Level One

~~FNST 280-3 Aboriginal Medicines I – Harvesting and Preservation~~

FNST 300-3 Research Methods in First Nations Studies

FNST 303-3 First Nations Religion and Philosophy

~~FNST 304-3 Indigenous Environmental 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 Aboriginal People in Canada  
ORTM 306-3 Indigenous Tourism and Recreation

#### 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.

#### Major in Environmental and Sustainability Studies (Okanagan Diploma in Environmental Studies Degree Completion)

This 60 credit-hour program of study is available only to students from Okanagan College with a diploma in Environmental Studies (Environmental Management Option or Interdisciplinary Environmental Arts Option).

If the diploma in Environmental Studies is completed, with the course choices noted\*, the completion of the following courses through UNBC will result in the completion of the BA in Environmental and Sustainability Studies.

\*NOTE: Students must take Okanagan College's PHIL 251 Environmental Ethics, WMST 222 Ecofeminism and GEOG 210 Introduction to Environmental Issues, GEOG 311 Environmental Management and INDG 204 Indigenous Concepts and Frameworks as part of their course choices at Okanagan College, or additional UNBC courses meeting these requirements will be are required.

~~\*\*NOTE: Students from Okanagan College must have completed either ANTH 245 OR GEOG 311 at Okanagan College. Students who have completed Okanagan College's ANTH 245 will not be required to take UNBC's ENVS 306. Students who have completed Okanagan College's GEOG 311 will not be required to take UNBC's ENVS 225. Students may not receive credit towards completion of Bachelor of Arts in Environmental and Sustainability for both ANTH 245 and GEOG 311.~~

#### Degree requirements:

Diploma in Environmental Studies from Okanagan College, minimum Cumulative GPA of 2.00, plus 36 credit hours.

Area of focus Specialization: 24–29 credit hours

Elective credit hours in any subject as necessary to ensure completion of a minimum of 60 credit hours at UNBC.

#### Lower-Division Requirement

BIOL 110-3\* Introductory Ecology  
or POLS 100-3 Contemporary Political Issues  
ENVS 101-3 Introduction to Environmental Citizenship

~~ENVS 225-3 Global Environmental Change: Sustainability~~  
~~— or ENVS 306-3 Human Ecology~~  
ENVS 210-3 Environmental Perspectives

\*Students who have completed the Interdisciplinary Arts diploma option should take BIOL 110, and students who have completed the Environmental Management diploma option should take POLS 100.

Upper-Division Requirement

300 Level

~~ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement for~~  
Sustainability

~~ENVS 339-3 Carbon and Energy Management~~ Low-Carbon Transitions: Theory and Practice

~~NREM 303-3 Aboriginal Perspectives on Land and Resource Management~~

400 Level

ENPL 401-3 Environmental Law

ENVS 431-3 Environmental and Sustainability Policies

ENVS 440-3 Internship

ENVS 480-3 Environmental & Sustainability Studies Senior Seminar

GEOG 401-3 Tenure, Conflict, and Resource Geography

or GEOG 306-3 Critical Development Geographies

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

Total: 30 credits

Students must complete an Area of Specialization. Area of Specialization requirements may be reduced by 6 credit hours (with the exception of the Natural Resource Management Area of Specialization), depending on what has been completed through the Okanagan College Diploma.

Area of Specialization

Students must choose one of the following areas of specialization.

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

Courses used to fulfill major requirements above may not be used to fulfill an Area of Specialization requirement.

...

Minor in Environmental and Sustainability Studies

The minor in Environmental and Sustainability Studies offers an opportunity for students in other disciplines to learn how individual lives are connected with environmental systems, and

to gain understanding and perspective on key environmental and sustainability issues.

A maximum of two courses (6 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Environmental Studies. The minor in Environmental and Sustainability Studies requires the completion of 18 credit hours, 12 of which must be at the upper division level.

Required

ENVS 101-3 Introduction to Environmental Citizenship  
ENVS 230-3 Introduction to Environmental Policy  
ENVS 414-3 Environmental and Professional Ethics

Three of the following:

ENPL 301-3 Sustainable Communities: Structure and Sociology  
ENPL 401-3 Environmental Law  
ENVS 210-3 Environmental Perspectives  
~~ENVS 309-3 Gender and Environment~~ Gender, Environment and Sustainability  
~~ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement for~~  
Sustainability  
~~ENVS 431-3 Environmental and Sustainability Policies~~ Global Environmental Policy: Energy and Climate  
FNST 304-3 Indigenous Environmental Philosophy  
GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making  
GEOG 401-3 Tenure, Conflict and Resource Geography  
GEOG 420-3 Environmental Justice  
NREM 303-3 Aboriginal Perspectives on Land and Resource Management  
~~ORTM 408-3 The Psychology of Recreation and Tourism~~  
PSYC 408-3 Environmental Problems and Human Behaviour

Minor in Global Environmental Change

The Global Environmental Change minor offers students a well-rounded perspective on global change issues.

The minor encompasses the science of global change and change predictions, the political realities of environmental change and the way policy intersects with science. The Global Environmental Change minor requires the completion of 21 credit hours, 12 of which must be at the upper-division level. A maximum of two courses (6 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for the Global Environmental Change minor.

Students must complete ~~ENVS 225-3~~ ENVS 431-3 and at least 9 credit hours from each of the two lists of courses indicated below for a total of 21 credit hours overall.

Required Courses

ENVS 225-3 Global Environmental Change: Sustainability

Three of the following:

BIOL 110-3 Introductory Ecology  
or BIOL 201-3 Ecology  
BIOL 404-3 Plant Ecology

ENSC 201-3 Weather and Climate  
ENSC 308-3 Northern Contaminated Environments  
ENSC 312-3 Biometeorology  
ENSC 408-3 Storms  
ENSC 412-3 Air Pollution  
~~ENVS 306-3 Human Ecology~~  
GEOG 357-3 Introduction to Remote Sensing

Three of the following:

ECON 305-3 Environmental Economics and Environmental Policy  
ENPL 205-3 Environment and Society  
ENPL 301-3 Sustainable Communities: Structure and Sociology  
ENPL 305-3 Environmental Impact Assessment  
ENPL 401-3 Environmental Law  
ENVS 210-3 Environmental Perspectives  
ENVS 230-3 Introduction to Environmental Policy  
ENVS 431-3 Global Environmental Policy: Energy and Climate  
GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making  
GEOG 401-3 Tenure, Conflict and Resource Geography  
GEOG 420-3 Environmental Justice  
HIST 360-3 An introduction to Environmental History  
HIST 421-3 Topics in Environmental History  
INTS 100-3 Introduction to Global Studies  
INTS 300-3 International Organization  
ORTM 200-3 Sustainable Recreation and Tourism  
POLS 100-3 Contemporary Political Issues  
POLS 344-3 Society, Policy and Administration of Natural Resources  
PSYC 408-3 Environmental Problems and Human Behaviour

#### Minor in Social Dimensions of Natural Resources Management

The minor in Social Dimensions of Natural Resources Management prepares students to engage the public and First Nations in collaborative processes dealing with the range of values encompassed within the practice of natural resources management. By completing the minor, students become familiar with planning policy and practice as it applies to natural resources management, the range of values and social considerations that apply to a number of resource sectors, and tools for soliciting and involving multi-stakeholder interests. The minor in Social Dimensions of Natural Resources Management requires the completion of a minimum of 24 credit hours of study. A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. Students must ensure that all prerequisites are fulfilled prior to registering in any course.

#### Required Courses

ENPL 401-3 Environmental Law

One of the following:

ENPL 304-3 Mediation, Negotiation, and Public Participation  
~~ENVS 326-3 Natural Resources, Environmental Issues, and Public Engagement for~~  
Sustainability

One of the following:

POLS 332-3 Community Development

POLS 434-3 Resource Communities in Transition

An additional five of the following courses (no more than two courses in any single program [e.g., ENPL]):

BIOL 350-3 Ethnobotany

ENPL 104-3 Introduction to Planning

ENPL 304-3 Mediation, Negotiation and Public Participation

ENPL 319-3 Social Research Methods

ENPL 409-4 Advanced First Nations Community and Environmental Planning

ENVS 210-3 Environmental Perspectives

ENVS 225-3 Global Environmental Change: Sustainability

ENVS 230-3 Introduction to Environmental Policy

ENVS 326-3 Natural Resources, Environmental Issues, and Public Engagement for Sustainability

FNST 203-3 Introduction to Traditional Ecological Knowledge

FNST 304-3 Indigenous Environmental Philosophy

FSTY 440-3 Internship

GEOG 401-3 Tenure, Conflict and Resource Geography

GEOG 403-3 First Nations and Indigenous Geographies

GEOG 424-3 Northern Communities

HIST 421-3 Topics in Environmental History

NREM 413-3 Agroforestry

ORTM 200-3 Sustainable Recreation and Tourism

POLS 316-3 Municipal Government and Politics

POLS 332-3 Community Development

POLS 434-3 Resource Communities in Transition

**S-202011.07**

**Change(s) to Degree Requirements – Joint Major Environmental and Sustainability Studies**

Jackson

That the change(s) to the Joint Major in English and Environmental and Sustainability Studies degree requirements, on pages 96 – 97 (in the PDF calendar) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Date:** September 2021

CARRIED

**Joint Major in English and Environmental and Sustainability Studies**

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  
ENGL 283-3 Introduction to Romantic Literature  
ENVS 101-3 Introduction to Environmental Citizenship  
ENVS 210-3 Environmental Perspectives  
ENVS 225-3 Global Environmental Change: Sustainability  
ENVS 230-3 Introduction to Environmental Policy  
FNST 100-3 The Aboriginal Peoples of Canada  
GEOG 101-3 Planet Earth

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 231-3 An Introduction to Canadian Literature  
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) of ~~environmental courses~~ at the 300 or 400 level:

ENVS 309-3 ~~Gender and Environment~~ Gender, Environment and Sustainability  
ENVS 326-3 ~~Natural Resources, Environmental Issues and Public Engagement for Sustainability~~  
ENVS 414-3 Environmental and Professional Ethics  
ENVS 431-3 ~~Environmental and Sustainability Policies~~ 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  
or ORTM 408-3 The Psychology of Recreation and Tourism

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 309-3 Gender and Film  
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.

**S-202011.08**

**Change(s) to Degree Requirements – Joint Major Environmental and Sustainability Studies and Political Science**

Jackson

That the change(s) to the Joint Major in Environmental and Sustainability Studies and Political Science, on pages 118 - 119 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Date:** September 2021

CARRIED

Joint Major in Environmental and Sustainability Studies and Political Science

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

#### 100 Level

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 225-3 Global Environmental Change: Sustainability

ENVS 230-3 Introduction to Environmental Policy

FNST 100-3 The Aboriginal Peoples of Canada

GEOG 101-3 Planet Earth

INTS 100-3 Introduction to Global Studies

POLS 100-3 Contemporary Political Issues

GEOG 204-3 Introduction to GIS

or ~~GEOG 205-3 Cartography and Geomatics~~

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

~~ENVS 306-3 Human Ecology~~

ENVS 309-3 ~~Gender and Environmental Studies~~ Gender, Environment and Sustainability

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

or GEOG 420-3 Environmental Justice

ENVS 326-3 ~~Natural Resources, Environmental Issues and Public Engagement For~~  
Sustainability

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

ENPL 401-3 Environmental Law

ENVS 414-3 Environmental and Professional Ethics

ENVS 431-3 ~~Environmental and Sustainability Policies~~ Global Environmental Policy: Energy and Climate

ENVS 440-(2-6) Internship

or POLS 440-3 Internship I

ENVS 480-3 Environmental & Sustainability Studies Senior Seminar

~~ORTM 408-3 The Psychology of Recreation and Tourism~~

~~—or 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~~

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

One of the following:

~~NRES 421-1 Professional Writing~~

~~—and NRES 422-2 Undergraduate Report~~

~~or NRES 430-6 Undergraduate Thesis~~

Elective and Academic Breadth

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

**S-202011.09**

**New Course Approval – ENVS 210**

Jackson

That the new course ENVS 210-3 Environmental Perspectives be approved as follows.

Proposed semester of first offering: September 2021

CARRIED

This course explores how different worldviews – comprised of beliefs, assumptions, values, attitudes, ideas – influence human relationships with the natural environment. This exploration includes an examination of the cultural, scientific, religious, philosophical, spiritual, and economic foundations that influence how individuals or societies perceive, interact with, and transform natural environments.

**S-202011.10**

**New Course Approval – ENVS 480**

Jackson

That the new course ENVS 480-3 Environmental and Sustainability Studies Senior Seminar be approved as follows.

Proposed semester of first offering: September 2021

CARRIED

This seminar course serves as the ‘capstone’ course for the Environmental and Sustainability Studies degrees and provides multiple opportunities to synthesize and deepen the knowledge gained over the course of the degree. The course assists the student in translating knowledge into professional practice, with attention paid to governance, advocacy, policy-making, leadership, and activism. Topics, formats and activities are tailored to cohort and individual interests and goals, as appropriate.

**S-202011.11**

**New Course Approval – ENVS 631**

Jackson

That the new course ENVS 631-3 Global Environmental Policy: Energy and Climate be approved as follows.

Proposed semester of first offering: September 2021

CARRIED

This course covers practical and theoretical understandings of international environmental policy, addressing sustainability challenges and solutions that are global in scope. The course uses interconnected themes of climate and energy to explore how environmental policies are designed and implemented, how domestic energy markets intersect with issues of international governance, and to review climate change adaptation and mitigation strategies aimed at transition to a low-carbon future. This course uses multiple learning formats, including policy simulations and case studies of substantive and procedural policies. Students have the opportunity to work on projects relevant to their area of research.

Library Forms for new courses were included in the meeting package.

**S-202011.12**

**Change(s) to Course Title – ENVS 309**

Schinkel

That the change(s) to the title of ENVS 309-3 Gender and Environment on page 223-224 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Effective Date:** September 2021

CARRIED (*Consent agenda*)

**ENVS 309-3 Gender, ~~and Environment~~ and Sustainability**

This course is an introduction to theories, concepts and approaches for understanding relationships between gender and the environment. It considers the evolution and utility of approaches such as ecofeminism. It also examines links between gender and the following: science; environmental domains and professions; environmental management; conservation and recreation; and environmental impacts.

Prerequisites: None

**S-202011.13**

**Change(s) to Course Title – ENVS 326**

Schinkel

That the change(s) to the title of ENVS 326 Natural Resources, Environmental Issues and Public Engagement on page 223-224 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Effective Date:** September 2021

CARRIED (*Consent agenda*)

**ENVS 326-3 ~~Natural Resources, Environmental Issues and~~ Public Engagement for Sustainability**

This course examines public engagement mechanisms and the attributes of successful engagement with respect to environmental and resource management issues. It also addresses the socio-political and legal requirements for engagement with the public, including ~~Aboriginal~~ Indigenous peoples. Exercises and critiques are used to provide students with practical experience in public engagement around environmental issues.

Prerequisites: None

**S-202011.14**

**Change(s) to Course Title and Description – ENVS 339**

Schinkel

That the change(s) to the title and description of ENVS 339-3 Carbon and Energy Management on page 223-224 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Effective Date:** September 2021

CARRIED (*Consent agenda*)

**ENVS 339-3 Carbon and Energy Management Low-Carbon Transitions: Theory and Practice**

This course offers students the opportunity to learn about the fundamentals of carbon and energy management, ~~the process of measuring the carbon footprint of goods, services and technologies, and processes for taking appropriate measures to reduce that footprint, and the concept of 'transition' related to low-carbon energy systems and sustainability.~~ It provides an overview of sustainability practices such as carbon accounting, policy design and implementation, community governance, financing, and environmental leadership. This course provides a combination of theoretical and experiential learning opportunities to provide students with a chance to develop a professional skillset.

Prerequisites: 60 credit hours or permission of instructor

**S-202011.15**

**Change(s) to Course Title and Description – ENVS 431**

Schinkel

That the change(s) to the title and description of ENVS 431-3 Environmental and Sustainability Policies on page 223-224 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Effective Date:** September 2021

CARRIED (*Consent agenda*)

**ENVS 431-3 Environmental and Sustainability Policies Global Environmental Policy: Energy and Climate**

~~This course covers the design of effective policies and decision-making processes that help society transition to a more sustainable future. In order to do so, this course provides opportunity to synthesize the foundations of environmental policy, the properties of complex systems, and the requirements for progress towards sustainability into a framework for integrated decision-making.~~ This course covers practical and theoretical understandings of international environmental policy, addressing sustainability challenges and solutions that are global in scope. The course uses interconnected themes of climate and energy to explore how environmental policies are designed and implemented, how domestic energy markets intersect with issues of international governance, and to review climate change adaptation and mitigation strategies aimed at transition to a low-carbon future. This course uses multiple learning formats, including policy simulations and case studies of substantive and procedural policies.

Prerequisites: ENVS 230-3

**S-202011.16**

**Course Deletion – ENVS 306**

Schinkel

That ENVS 306-3 Human Ecology be deleted from Environmental & Sustainability Studies on page 223-224 (in the PDF calendar accessible on the UNBC web page) of the 2020/2021 undergraduate calendar.

**Effective Date:** September 2021

CARRIED (*Consent agenda*)

### **S-202011.17**

#### **Change(s) to Degree Requirements – School of Environmental Planning**

Kazemian

That the change(s) to the School of Environmental Planning (BPI Program) degree requirements, on pages 106-110 (in the PDF calendar available at <https://www.unbc.ca/calendar/academic-calendar>) of the 2020/2021 undergraduate calendar, be approved as proposed.

**Date:** September 2021

CARRIED

## *School of Environmental Planning (BPI)*

Mark Groulx, Assistant Professor

Darwin Horning, Assistant Professor

Daniela Fisher, Adjunct Professor

Theresa Healy, Adjunct Professor

Richard Krehbiel, Adjunct Professor

Angel Ransom, Adjunct Professor

Finlay Sinclair, Adjunct Professor

Andrew Young, Adjunct Professor

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

The degree provides a broad education in environmental planning. The focus is on understanding the relationship between people and the environment, reducing the environmental impact of human activities, and responding and adapting to environmental change.

The study of planning examines public processes that improve the quality of decisions affecting the environment. Responsible planning integrates various private and public interests and identifies viable, workable options. Planners play a vital role in decision-making processes concerning the future of human settlements, resource management, environmental protection, human health and well-being, economic development, and many other areas. Ultimately, the work of planners becomes part of, or a catalyst to, public policy.

To achieve its purposes, Environmental Planning offers a comprehensive program of courses, such as environmental assessment, ecological design, economic development, First Nations planning, land use planning, and sustainable communities. Each course provides a creative and challenging learning environment for students to tackle today's most contentious issues such as sustainability, climate change, biodiversity, environmental stewardship, and urban sprawl. Environmental Planning offers unique perspectives on a rapidly evolving field of study and solutions for an increasingly complex world.

Environmental Planning is dedicated to upholding professional standards of practice and is accredited by the Professional Standards Board (PSB) which is recognized by the Canadian Institute of Planners (CIP) and the Planning Institute of British Columbia (PIBC).

Accreditation is a system for promoting national standards of education in planning and for recognizing educational institutions for a level of performance, integrity, and quality.

Accreditation benefits students in Environmental Planning in three ways:

- Current students can apply for Student Membership in PIBC;
- Graduates are eligible for Full Membership in PIBC and CIP after two years of professional planning experience; and
- Employers in the planning field look for students graduating from an accredited planning program, thus significantly improving graduates' job prospects.

Three majors are available to students completing the Bachelor of Planning:

- Northern and Rural Community Planning;
- First Nations Planning;
- Natural Resources Planning.

Planning students complete a set of program requirements totaling 72 credit hours in addition to completing the specialized course requirements for each major.

## Program Requirements for all Majors in Planning

### Lower-Division General Environmental Planning Requirement

#### 100 Level

ECON 100-3 Microeconomics

ENPL 104-3 Introduction to Planning

One of the following:

ENGL 170-3 Writing and Communication Skills

NRES 100-3 Communications in Natural Resources and Environmental Studies

POLS 290-3 Research and Writing for Political Science

~~NRES 100-3 Communications in Natural Resources and Environmental Studies~~

#### 200 Level

ENPL 204-3 Principles and Practices of Planning

ENPL 205-3 Environment and Society

ENPL 206-3 Planning Analysis and Techniques

ENPL 207-3 Introduction to Computer Aided Design

or GEOG 205-3 Cartography and Geomatics

ENPL 208-3 First Nations Community and Environmental Planning

GEOG 204-3 Introduction to GIS

GEOG 210-3 Introduction to Earth Science

POLS 200-3 Canadian Government and Politics

One of the following:

ECON 205-3 Statistics for Business and the Social Sciences

STAT 240-3 Basic Statistics

STAT 371-3 Probability and Statistics for Scientists and Engineers

### Upper-Division General Environmental Planning Requirement

#### 300 Level

ENPL 301-3 Sustainable Communities: Structure and Sociology

ENPL 303-3 Spatial Planning with Geographical Information Systems

ENPL 304-3 Mediation, Negotiation and Public Participation

ENPL 305-3 Environmental Impact Assessment

ENPL 313-3 Rural Community Economic Development

ENPL 318-3 Professional Planning Practice

ENPL 319-3 Social Research Methods

#### 400 Level

- ENPL 401-3 Environmental Law
- ENPL 410-3 Land Use Planning
- ENPL 411-3 Planning Theory, Process and Implementation
- ENPL 415-3 Ecological Design
- ENVS 414-3 Environmental and Professional Ethics

#### Major Requirements

Students must choose to specialize in one major. All course requirements in the major must be completed.

### Major in Northern and Rural Community Planning

The focus of this major is to promote an understanding of the complexity and diversity of environmental problems, to develop an appreciation of community change processes, and to provide planners with knowledge which will improve the quality of the built environment and reduce the impact of human activities on the natural world. The unique planning requirements of smaller communities and rural regions demand a grounding in both physical and social science methods and an understanding of the relationship between northern communities and surrounding rural resource regions. Environmental planning necessitates strategic thought and action combined with knowledge grounded in professional practice. The Northern Rural and Community Planning major combines concepts such as bioregionalism, sustainability and landscape design within the context of physical land-use planning, social planning and community economic development.

Northern and Rural Community Planning is the application of environmental planning principles and practices to the often unique social, economic and ecological issues confronting northern and circumpolar communities in Canada and elsewhere in the northern hemisphere. Successfully addressing these issues requires an appreciation of how and why communities change, an understanding of relationships between northern communities and surrounding rural resource regions and of the place and function of northern communities and rural regions in the global environment, and a grounding in both physical and social science methods of research and analysis.

Students must ensure that all prerequisites are fulfilled prior to registering in any courses.

Program requirement for all majors in planning: 72 credit hours

Major requirement: 15 credit hours

Major elective requirement: 18 credit hours

General elective requirement: elective credit hours as necessary to ensure the completion of 120 credit hours.

The minimum requirement for a Bachelor of Planning with a major in Northern and Rural Community Planning is 120 credit hours.

#### Major Requirements

##### Lower-Division Requirements

- BIOL 110-3 Introductory Ecology
- ENVS 101-3 Introduction to Environmental Citizenship  
or GEOG 206-3 Social Geography

Three of the following:

- ANTH 213-3 Peoples and Cultures
- ECON 206-3 Methods of Economic Evaluation
- ENVS 306-3 Human Ecology (regional campus only)
- FNST 100-3 The Aboriginal Peoples of Canada
- GEOG 101-3 Planet Earth
- GEOG 200-3 British Columbia: People and Places
- GEOG 202-3 Resources, Economies, and Sustainability
- GEOG 206-3 Social Geography
- INTS 100-3 Introduction to Global Studies
- INTS 210-3 Globalizations
- MATH 115-3 Precalculus
- NREM 110-3 Food, Agriculture, and Society
- POLS 100-3 Contemporary Political Issues
- SOCW 201-3 Introduction to Social Welfare

##### Upper-Division Requirements

- POLS 350-3 Law and Municipal Government

One of the following:

- NREM 306-3 Society, Policy and Administration
- POLS 316-3 Municipal Government and Politics
- POLS 320-3 Canadian Politics and Policy

One of the following:

- GEOG 424-3 Northern Communities
- POLS 415-3 Comparative Northern Development
- POLS 434-3 Resource Communities in Transition

Three of the following, minimum 9 credit hours:

ANTH 405-3 Landscapes, Place and Culture  
ANTH 413-(3-6) Environmental Anthropology  
ANTH 423-3 Urban Anthropology  
ECON 411-3 Cost Benefit Analysis  
ENPL 430-6 Undergraduate Thesis  
ENPL 431-3 Professional Report  
ENPL 440-(2-6) Internship  
ENSC 302-3 Low Carbon Energy Development  
ENSC 404-3 Waste Management  
ENSC 302-3 Low Carbon Energy Development  
FNST 303-3 First Nations Religion and Philosophy  
FNST 350-3 Law and Indigenous Peoples  
GEOG 305-3 Political Ecology: Environmental Knowledge and Decision-Making  
GEOG 403-3 First Nations and Indigenous Geographies  
GEOG 424-3 Northern Communities  
HIST 360-3 An Introduction to Environmental History  
INTS 304-3 International Development  
or GEOG 306-3 Critical Development Geographies  
NREM 306-3 Society, Policy and Administration  
POLS 302-3 How Government Works  
POLS 316-3 Municipal Government and Politics  
POLS 320-3 Canadian Politics and Policy  
POLS 332-3 Community Development  
POLS 351-3 Local Services and Public Policy  
POLS 360-3 Local Government Finance  
POLS 415-3 Comparative Northern Development  
POLS 434-3 Resource Communities in Transition  
SOCW 320-3 Critical Social Policy

Students must ensure that all prerequisites are fulfilled prior to registering in any course. Students are encouraged to use the general electives to take a minor offered in Geography and Political Science, First Nations Studies, or other fields associated with community development.

## Major in First Nations Planning

First Nations communities have significant and growing demands for qualified planners. The opportunities for skilled planners increase as many First Nations move to define land claims in Canada, potentially giving First Nations significant responsibilities for land and community planning. However, planning by and with First Nations requires specific skills and abilities in the planners, whether or not they themselves are First Nations.

For most First Nations communities few distinctions are made between ecological/environmental planning and planning for social and cultural needs which are developed from within, and are grounded in, the ecosystem. First Nations planning must necessarily integrate all of these domains. First Nations wish to remain grounded in tradition and seek to move into the future through sound community economic development and skilled land management. Most face significant community development needs, including infrastructure development, housing and health planning. Students need not only a sound grasp of planning principles, but also an understanding of the protocols, history, social structure and ecology of Canadian First Nations. Cross-cultural translation skills, community participation techniques and a solid grounding in ethics are required.

Students must ensure that all prerequisites are fulfilled prior to registering in any course.

Program requirement for all majors in planning: 72 credit hours

Major requirement: 19 credit hours

Major elective requirement: 18 credit hours

General elective requirement: Elective credit hours as necessary to ensure the completion of 120 credit hours.

The minimum requirement for a Bachelor of Planning with a major in First Nations Planning is 120 credit hours.

### Lower-Division Requirements

BIOL 110-3 Introductory Ecology  
FNST 100-3 The Aboriginal Peoples of Canada  
FNST 131-3 A First Nations Language: Level 1

Three of the following:

ANTH 205-3 Introduction to Archaeology  
ANTH 213-3 Peoples and Cultures  
ENVS 101-3 Introduction into Environmental Citizenship  
ENVS 230-3 Introduction to Environmental Policy

FNST 161-3 A First Nations Culture: Level 1  
FNST 200-3 Perspectives in First Nations Studies  
FNST 203-3 Introduction to Traditional Ecological Knowledge  
HHSC 102-3 Introduction to Health Sciences II: Rural and Aboriginal Issues  
MATH 115-3 Precalculus  
NREM 110-3 Food, Agriculture, and Society  
NREM 210-4 Integrated Resource Management

### Upper-Division Requirements

ENPL 409-4 Advanced First Nations Community and Environmental Planning  
FNST 304-3 Indigenous Environmental Philosophy  
or FNST 303-3 First Nations Religion and Philosophy  
FNST 350-3 Law and Indigenous Peoples

Three of the following:

ANTH 404-3 Comparative Study of Indigenous Peoples of the World  
BIOL 350-3 Ethnobotany  
ENPL 430-6 Undergraduate Thesis  
ENPL 431-3 Professional Report  
ENPL 440-(2-6) Internship  
ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement  
FNST 303-3 First Nations Religion and Philosophy  
FNST 304-3 Indigenous Environmental Philosophy  
FNST 305-3 Seminar in First Nations Studies  
FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power  
GEOG 403-3 First Nations and Indigenous Geographies  
GEOG 420-3 Environmental Justice  
HIST 390-3 Aboriginal People in Canada  
NREM 303-3 Aboriginal Perspectives on Land and Resource Management  
ORTM 306-3 Indigenous Tourism and Recreation  
POLS 350-3 Law and Municipal Government  
SOCW 455-3 Indigenous Governance and Social Policy  
SOCW 457-3 Individual and Community Wellness for Indigenous Peoples

~~Of the above lower and upper division three of course requirements~~ In addition to FNST 100-3, FNST 131-3, FNST 304-3, and FNST 350-3, students must select a minimum of three FNST courses (9 credit hours) from the upper- and lower-division lists.

Students must ensure that all prerequisites are fulfilled prior to registering in any courses. Students are encouraged to use the general electives to take a minor offered in First Nations Studies or other courses associated with aboriginal and First Nations issues.

## Major in Natural Resources Planning

The major in Natural Resources Planning is designed to provide students with an understanding of the complexities of including the natural and cultural environment in planning decision-making. The major is intended to address both project-level and large-scale environmental planning issues that occur in developments that have an impact on the natural environment.

The objective of this major is to familiarize students with planning and decision-making in a variety of sectors that include provincial land use planning, environmental assessment, watershed planning and integrated resource and environmental management. These areas of planning are characterised by complex and intricate questions about how to use our natural resources and who should decide. The multidimensional aspects of environmental management include natural and cultural complexity, different desired futures, value differences, assessment and monitoring tools, and integration methods. This major emphasizes an understanding of planning in both the substantive realm (natural and social sciences) and the procedural realm (the process of including people in the decision-making process).

Students enrolled in the Natural Resources Planning major must successfully complete 120 credit hours. Students interested in working with biological and environmental aspects of natural resource planning should take BIOL 103/BIOL 123 and BIOL 104/124 as elective courses and BIOL 201 as the ecology elective to satisfy prerequisites for many of the other biological and environmental courses. Those students interested in the environmental sciences should take first- and second-year Chemistry courses as part of the general electives. Students interested in integrated natural resource planning should take BIOL 104/124 and a mix of courses in areas of Political Science, First Nations (FNST or ENPL), Environment Sciences (ENSC), Geography and Outdoor Recreation and Tourism Management, and International Studies and Economics.

Students must ensure that all prerequisites are fulfilled prior to registering in any course.

Program requirement for all majors in planning: 72 credit hours

Major requirement: 17 credit hours

General elective requirement: Elective credit hours as necessary to ensure the completion of 120 credit hours.

The minimum requirement for a Bachelor of Planning with a major in Natural Resource Planning is 120 credit hours.

### Lower-Division Requirements

BIOL 110-3 Introductory Ecology

or BIOL 201-3 Ecology  
 GEOG 205-3 Cartography and Geomatics  
 NREM 210-4 Integrated Resource Management  
 Three of the following, minimum 9 credit hours:  
 BIOL 103-3 Introductory Biology I  
 and BIOL 123-1 Introductory Biology I Laboratory  
 BIOL 104-3 Introductory Biology II  
 and BIOL 124-1 Introductory Biology II Laboratory  
CHEM 100-3 General Chemistry I  
 and CHEM 120-1 General Chemistry Lab I  
 ENSC 201-3 Weather and Climate  
 ENSC 202-3 Introduction to Aquatic Systems  
 FNST 100-3 The Aboriginal Peoples of Canada  
 FNST 203-3 Introduction to Traditional Ecological Knowledge  
 FSTY 205-3 Introduction to Soil Science  
 INTS 100-3 Introduction to Global Studies  
 MATH 115-3 Precalculus  
 NREM 101-3 Introduction to Natural Resources Management and Conservation  
NREM 110-3 Food, Agriculture, and Society  
 NREM 203-3 Resource Inventories and Measurements  
 NREM 204-3 Introduction to Wildlife & Fisheries  
 ORTM 200-3 Sustainable Recreation and Tourism

### Upper-Division Requirements

NREM 400-4 Natural Resources Planning  
 NREM 410-3 Watershed Management  
 Three of the following, minimum 9 credit hours:  
 BIOL 302-3 Limnology  
 BIOL 411-3 Conservation Biology  
 ECON 305-3 Environmental Economics and Environmental Policy  
 ECON 331-3 Forestry Economics  
 ECON 411-3 Cost Benefit Analysis  
 ENPL 409-4 Advanced First Nations Community and Environmental Planning  
 ENPL 430-6 Undergraduate Thesis  
 ENPL 431-3 Professional Report  
 ENPL 440-(2-6) Internship  
 ENSC 302-3 Low Carbon Energy Development  
 ENSC 308-3 Northern Contaminated Environments  
 ENSC 312-3 Biometeorology  
 ENSC 404-3 Waste Management  
 ENSC 412-3 Air Pollution  
ENSC 425-3 Climate Change and Global Warming  
 ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement  
 FNST 451-3 Traditional Use Studies  
 GEOG 401-3 Tenure, Conflict and Resource Geography  
 INTS 307-3 Global Resources  
NREM 303-3 Aboriginal Perspectives on Land and Resource Management  
 NREM 413-3 Agroforestry  
 ORTM 300-3 Recreation and Tourism Impacts  
 ORTM 305-3 Protected Area Planning and Management  
 ORTM 407-3 Recreation, Tourism, Communities  
 POLS 344-3 Society, Policy and Administration of Natural Resources  
 or NREM 306-3 Society, Policy and Administration  
 POLS 350-3 Law and Municipal Government

Students must ensure that all prerequisites are fulfilled prior to registering in any course.

Students are encouraged to use the general electives to take a minor offered in areas of Geography, Political Science, First Nations Studies, or other fields associated with community development.

### **S-202011.18**

**Change(s) to Course Description – ENGR 130** That the change to the course description for ENGR Schinkel

130-4 Mechanics of Materials I, on page 217 of the 2020/2021 undergraduate calendar, be approved as proposed.

**Effective Date:** January 2020

CARRIED (*Consent agenda*)

This course introduces key principles applicable to practical problems in the mechanics of materials. The course concentrates on stress analysis of single structural elements. Topics include but are not limited to the following concepts of stress and strain: mechanical properties of materials (elasticity, Poisson's ratio); axial loading and deformation; thermal stresses; torsional stress and deformation; shear forces; and bending moments.

This course is an introduction to learning and applying the principles of statics required to solve engineering mechanics problems in the fields of civil and environmental engineering. Emphasis is placed on drawing free body diagrams and procedures for analysis. Topics include but are not limited to the following: introduction to engineering mechanics; equilibrium of particles and rigid bodies; structural analysis of simple trusses, frames and cables; internal forces; friction; centre of gravity and centroids; and moments of inertia. Laboratory sessions provide hands-on examples.

**S-202011.19**

**Change(s) to Calendar and Program Requirement – Engineering**

Kazemian

That the changes to the Calendar entry and program requirements for Engineering on pages 100 to 105 (in the PDF calendar) of the 2010/2021 undergraduate calendar, be approved as proposed.

**Effective Date:** October 2020

CARRIED

# School of Engineering (B.A.Sc. B.A.Sc. Program)

- **Civil Engineering**
- **Environmental Engineering**
- **Joint Environmental Engineering with UBC**

Ernie Barber, Associate Dean

Maik Gehloff, Senior Laboratory Instructor and Acting Chair of the School of Engineering

Jianbing Li, Professor

Jueyi Sui, Professor

Thomas Tannert, Professor

Ron Thring, Professor

Steve Helle, Associate Professor

Guido Wimmers, Associate Professor

Faran Ali, Assistant Professor

Asif Iqbal, Assistant Professor

Wenbo Zheng, Assistant Professor

Jianhui Zhou, Assistant Professor

Chao Kang, Senior Laboratory Instructor

Natalie Linklater, Senior Laboratory Instructor

Emily Cheung, Lecturer and Adjunct Professor

Belinda Larisch, Lecturer

Engineers serve society across a wide range of economic sectors in a number of capacities. Engineers require a solid technical and academic background, good communication skills, and the ability to work across a number of disciplines. Engineers ~~deal with problems ranging from~~ design structures; bridges; mines; and dams; construction to transit systems; to air, water, and soil-pollution control systems for air, water and soil; and much more.

UNBC offers three engineering degrees at the undergraduate level – a Civil Engineering degree, an Environmental Engineering degree and an joint Environmental Engineering degree ~~offered jointly~~ with UBC. (UNBC also offers a graduate degree in engineering. See the Graduate Calendar.) These degrees prepare graduates for a wide range of employment opportunities where their technical expertise and problem-solving skills are required. The program provides graduates with a strong awareness and understanding of environmental issues and problems. Our graduates are prepared for employment with engineering firms of all sizes in the consulting, construction and resource industries (e.g. forestry, fisheries, mining, oil and gas, pulp and paper, and the agri-food industry), as well as ~~various~~ government ministries and research organizations. Our graduates help shape the new environmental and civil engineering economy.

The Civil and Environmental Engineering degrees start with a similar first year in which the basic sciences and mathematics are emphasized along with an introduction to the engineering discipline. In second year, a number of courses are common in all of the engineering degrees but program requirements start to differentiate between the Civil and Environmental Engineering degrees. In the remaining years, some of the courses are common to both programs while each degree develops the in-depth knowledge to allow students to qualify within their discipline upon graduation. The final year exposes students to practical engineering problems.

UNBC offers an integrated approach to civil engineering which is in keeping with the themes of design, life-cycle assessment, sustainable materials, and low-impact development throughout. Today's civil engineer not only designs the infrastructure essential to modern society (buildings, bridges, highways, transit systems, water and waste treatment facilities, foundations, tunnels, dams, etc.) but also analyzes the effects of deterioration on infrastructure elements while considering system interdependencies and life-cycle impacts. Civil engineers must consider environmental impact and economic sustainability in the development of modern infrastructure.

UNBC offers an Environmental Engineering degree that integrates basic science with modern engineering practices. Environmental and ecological problems are an increasing concern for all Canadians, including in the northern portion of British Columbia due to a primarily resource-based economy. Our graduates are prepared to take on challenges facing modern society, including water, air, and soil pollution control; solid waste management; contaminated site remediation; the protection of society from adverse environmental factors; and the protection of environments from potentially detrimental effects of natural and human activities.

## **Admission Requirements**

Admission to the program is limited and based on academic qualifications and available space. Priority admission is given to students who meet the admission criteria and apply by the deadline of March 1.

Applicants from BC and Yukon secondary schools must

- meet UNBC admission requirements, and
- have an average of at least 75% based on the following four courses: Math 12 or Pre-calculus 12, English 12 and two provincially examinable Science 12 courses. In addition, applicants must have successfully completed Chemistry 11 in order to meet course prerequisites in the Program. Physics 12 or an equivalent is strongly recommended as it is a prerequisite for first-year Physics courses in the program. Students who are admitted without the Physics 12 prerequisite may be delayed in their studies as they may not be able to complete the first four semesters of the program in the normal two-year time period. Meeting the minimum GPA does not guarantee admission. Under exceptional circumstances the prerequisites may be waived.

Other applicants must demonstrate that they possess qualifications at least equivalent to the BC and Yukon requirement.

UNBC is part of the Common First-Year Engineering Curriculum agreement. Students who complete the Common First-Year Engineering Curriculum at sending institutions in British Columbia may be admitted into second-year. Students who complete the Common First-Year Engineering Curriculum at sending institutions and who meet the minimum acceptance requirements at UNBC are guaranteed admission.

## **Transfers**

Transfer into the program is allowed provided the prerequisite courses or articulated courses are completed and space is available in the program. Acceptance of transfers into the program is based on GPA with priority given to those with the highest GPA. The admission GPA for transfer students into the Environmental Engineering program is assessed on the following four courses or their university transferrable equivalents: Math 12 or Pre-calculus 12, English 12, and two provincially examinable Science 12 courses. In order to be considered for admission into the program, transfer students must have at least a 75% average based on these four courses or their equivalents. In addition, the following requirements for the four courses apply:

- UNBC Civil and Environmental Engineering degree programs: Where both high school and university transfer coursework are provided for each of these four courses, the most recent GPA for each course is used. Transfer students must also have an overall Cumulative transfer GPA of 2.00, which is based on all their university transferrable coursework. Regardless of the articulated courses transferred, students must satisfy the residency requirement of a minimum of 90 credit hours.
- UNBC/UBC Joint Environmental Engineering degree program: Where both high school and university transfer coursework are provided for each of these four courses the highest GPA for each course is used. Transfer students must also have an overall Cumulative transfer GPA of 2.00, which is based on all their university transferrable coursework. Regardless of the articulated courses transferred, students must satisfy the residency requirement of a minimum of 90 credit hours. These may be fulfilled through a combination of courses taken at UNBC and UBC, provided that at least 30 credit hours are completed at each of the two institutions.

## Qualification for Degree

It is the responsibility of the student to ensure that the degree requirements are met. General graduation requirements are found in the Regulations and Policy section of the UNBC Calendar.

## UNBC Civil and Environmental Engineering degree programs:

Students must

- have a Cumulative GPA of at least 2.00 (C) on courses for credit towards an Engineering degree;
- obtain a minimum passing grade of 1.67 (C-) in each of ENGR 217, ~~MATH 200, MATH 230~~ and either CIVE 400 and CIVE 401 (Civil Engineering) or ENVE 400 and ENVE 401 (Environmental Engineering);
- complete all requirements of the ~~BASE~~ B.A.Sc. program within eight years counted from admission into the program or from the first Engineering course used for credit towards the degree.

## UNBC/UBC Joint Environmental Engineering degree program:

Students must have

- a good academic standing at both institutions to graduate;
- a Cumulative GPA of at least 2.00 (63%) over all courses taken at UNBC;
- an average of at least 55%, and passing grades in at least 65% of the credits taken at UBC.

The degree parchment will carry crests from both granting institutions (UNBC and UBC).

## Letter of Permission

Once admitted to Engineering at UNBC, students who want to take coursework at another institution for credit must obtain a Letter of Permission prior to registration in the course.

Students who complete courses without first having obtained a Letter of Permission risk not having those courses accepted for transfer credit. A student who has committed an academic offence or is on academic probation may be denied a Letter of Permission for subsequent coursework. Students should consult the Engineering Academic Advisor before considering coursework for transfer credit (refer to Academic Regulation 19).

## Transfers

~~Transfers into the program are allowed provided that the prerequisite courses or articulated courses are completed and space is available in the program. Acceptance of transfers into the program are based upon GPA with priority given to those with the highest GPA. The admission GPA for transfer students into the Environmental Engineering program is assessed on the following four courses or their university transferrable equivalents: Principles of Math 12 or Pre-calculus 12, English 12, and two provincially examinable Science 12 courses. In order to be considered for admission into the program, transfer students must have at least a 75% average based on these four courses or their equivalents.~~

- ~~• UNBC Civil and Environmental Engineering degree programs: Where both high school and university transfer coursework are provided for each of these four courses, the most recent GPA for each course is used. Transfer students must also have an overall Cumulative transfer GPA of 2.00, which is based on all their university transferrable coursework. Regardless of the articulated courses transferred, students must satisfy the residency requirement of a minimum of 90 credit hours.~~
- ~~• UNBC/UBC Joint Environmental Engineering degree program: Where both high school and university transfer coursework are provided for each of these four courses the highest GPA for each course is used. Transfer students must also have an overall Cumulative transfer GPA of 2.00, which is based on all their university transferrable coursework. Regardless of the articulated courses transferred, students must satisfy the residency requirement of a minimum of 90 credit hours. These may be fulfilled through a combination of courses taken at UNBC and UBC, provided that at least 30 credit hours are completed at each of the two institutions.~~

## Co-operative Education

Co-operative education is an optional but strongly recommended element of the Engineering program.

For students in the UNBC Civil and Environmental Engineering degree programs, contact the UNBC Co-operative Education program for opportunities.

For students in the UNBC/UBC Environmental Engineering degree program, contact UBC Engineering Co-op for opportunities.

# Civil Engineering Degree Program Requirements

~~UNBC offers a rigorous civil engineering education augmented by business skills training and opportunities for specialized instruction in several areas. Today's civil engineer not only designs the infrastructure essential to modern society (buildings, bridges, highways, transit~~

systems, water and waste treatment facilities, foundations, tunnels, dams, etc.) but also analyzes the effects of deterioration on infrastructure elements while considering system interdependencies and life-cycle impacts. Civil engineers must consider environmental impact and economic sustainability in the development of modern infrastructure.

UNBC offers an integrated approach to civil engineering which is in keeping with the themes of design, life-cycle assessment, systems engineering, sustainable materials, renewable energy, and low-impact development throughout.

The minimum requirement for completion of a Bachelor of Applied Science degree with a major in Civil Engineering is 153 credit hours.

## Standards of Professional Conduct

In addition to fulfilling all University and program regulations and expectations, all Civil Engineering students are expected to abide by professional standards as set forth by Engineers and Geoscientists of British Columbia. Violation of professional standards may result in suspension or dismissal from the program and/or the University.

## Academic Performance

Students must adhere to the policies and regulations as specified in the UNBC calendar. This requirement includes, but is not limited to, matters related to academic offenses and progression through the program. Progression is covered by the guidelines on academic standing and continuance. Offenses are governed by the regulations in the UNBC calendar.

In order to progress through the program, sStudents must obtain the minimum passing grade for all courses. Failure to do so may result in a requirement to withdraw from the program.

## Program Requirements

### First Year (Semesters 1 & 2)

|            |   |
|------------|---|
| CHEM 100-3 | General Chemistry I                             |
| CHEM 120-1 | General Chemistry Laboratory I                  |
| CPSC 110-3 | Introduction to Computer Systems and Programing |
| ENGR 110-3 | Technical Writing                               |
| ENGR 117-3 | Engineering Design 1                            |
| ENGR 130-4 | Mechanics of Materials I                        |
| ENGR 151-1 | Engineering Tools I                             |
| ENGR 152-1 | Engineering Tools II                            |
| MATH 100-3 | Calculus I                                      |
| MATH 101-3 | Calculus II                                     |
| MATH 220-3 | Linear Algebra                                  |

PHYS 110-4      Introductory Physics I: Mechanics  
PHYS 111-4      Introductory Physics II: Waves and Electricity

### **Second Year (Semesters 3 & 4)**

CIVE 241-4      Civil Engineering Materials  
CIVE 260-4      Soil Mechanics I  
ENGR 211-3      Engineering Communication  
ENGR 217-3      Engineering Design II  
ENGR 221-3      Thermodynamics and Heat Transfer  
ENGR 240-4      Mechanics of Materials II  
ENGR 250-3      Engineering Tools III  
ENGR 254-4      Fluid Mechanics I  
ENGR 270-3      Surveying  
MATH 200-3      Calculus III  
MATH 230-3      Linear Differential Equations and Boundary Value Problems  
STAT 371-3      Probability and Statistics for Scientists and Engineers  
3 credit hours chosen from the lists of electives

### **Third Year (Semesters 5 & 6)**

CIVE 320-3      Structural Analysis I  
CIVE 321-3      Structural Analysis II  
CIVE 340-3      Structural Design I  
CIVE 341-3      Structural Design II  
CIVE 360-4      Soil Mechanics II  
CIVE 370-3      Transportations Systems  
CIVE 372-3      Construction Management  
ENGR 300-3      Sustainable Principles of Engineering  
ENGR 353-4      Hydrology and Open Channel Flow  
ENGR 358-3      Water and Wastewater Systems  
ENGR 380-3      Engineering Economics  
3 credit hours chosen from the lists of electives

### **Fourth Year (Semesters 7 & 8)**

CIVE 400-3      Capstone Design Project I  
CIVE 401-6      Capstone Design Project II  
CIVE 411-3      Project Management  
ENGR 410-3      Professional Practice & Law  
21 credit hours chosen from the lists of electives

### **Electives**

Electives must be chosen from the following lists.

15 credit hours total must be chosen from the Civil and Environmental Engineering elective lists.

Civil Engineering technical electives:  
9 or 12 credit hours of the following:  
CIVE 451-3      Building Physics

CIVE 461-3            Foundation Design  
CIVE 471-3            Cold Climate Construction Engineering  
CIVE 481-3            Urban and Regional Planning

Environmental Engineering electives:

3 or 6 credit hours of the following:

ENGR 354-3            Fluid Mechanics II  
ENGR 412-3            Engineering Business & Project Management  
ENVE 355-3            Engineering Hydrology  
ENVE 462-3            Geo-Environmental Engineering

Science electives:

6 credit hours from ~~from~~ of the following:

ENSC 308-3            Northern Contaminated Environments  
ENSC 412-3            Air Pollution  
ENSC 425-3            Climate Change and Global Warming  
FSTY 345-3            Wood Materials Science  
GEOG 205-3            Cartography and Geomatics  
GEOG 210-3            Introduction to Earth Science

Humanities or Social Sciences electives:

6 3 credit hours from ~~from~~ of the following:

ENPL 305-3            Environmental Impact Assessment  
ENVS 230-3            Introduction to Environmental Policy  
ENVS 414-3            Environmental and Professional Ethics  
FNST 304-3            Indigenous Environmental Philosophy  
GEOG 202-3            Resources, Economies, and Sustainability  
NREM 303-3            Aboriginal Perspectives on Land and Resource Management  
NREM 306-3            Society, Policy and Administration  
POLS 100-3            Contemporary Political Issues

3 credit hours of Humanities and Social Sciences courses with subject matter that deals with the central issues, methodologies, and thought processes of the Humanities and Social Sciences (for example, any ANTH, ENGL, ENVS, FNST, HIST, INTS, NORSE, PHIL, POLS, or WMST course that does not principally impart language skills or statistics). GEOG and ENPL courses may qualify with the approval of the Chair.

## **ENVIRONMENTAL ENGINEERING DEGREE PROGRAM REQUIREMENTS (UNBC PROGRAM)**

~~Environmental and ecological problems are an increasing concern for all Canadians particularly in the resource-rich northern portion of British Columbia. The concerns are especially acute due to a primarily resource-based economy, which depends on forestry, mining, oil and gas, and fisheries. Further, the northern economy generates a significant portion of British Columbia's primary wealth and feeds provincial economic growth. UNBC offers an Environmental Engineering degree that integrates basic science with modern Engineering practices. Our graduates are prepared to take on challenges facing modern society, including the protection of society from adverse environmental factors, protection of~~

~~environments from potentially detrimental effects of natural and human activities, water, air, and soil pollution control, solid waste management and contaminated site remediation. Modern issues require highly skilled engineers with a solid background in environmental engineering, strong communication skills, and the ability to work across disciplinary boundaries. This program prepares graduates for a wide range of employment opportunities where the technical expertise and problem-solving skills of engineers are needed in conjunction with a strong awareness and understanding of environmental issues and problems.~~

The minimum requirement for completion of a Bachelor of Applied Science degree with a major in Environmental Engineering is 151 credit hours.

### **Standards of Professional Conduct**

In addition to fulfilling all University and program regulations and expectations, all Environmental Engineering students are expected to abide by professional standards as set forth by Engineers and Geoscientists of British Columbia. Violation of professional standards may result in suspension or dismissal from the program and/or the University.

### **Academic Performance**

Students must adhere to the policies and regulations as specified in the UNBC calendar. This requirement includes, but is not limited to, matters related to academic offenses and progression through the program.

~~In order to progress through the program, s~~Students must obtain the minimum passing grade for all courses. Failure to do so may result in a requirement to withdraw from the program. ~~Environmental Engineering students must complete ENGR 217, ENVE 400, ENVE 401, MATH 200, and MATH 230 at UNBC.~~

## **Program Requirements**

### **First Year (Semesters 1 & 2)**

|                       |   |
|-----------------------|---|
| CHEM 100-3            | General Chemistry I                                   |
|                       | <u>and CHEM 120-1 General Chemistry Laboratory I</u>  |
| CHEM 101-3            | General Chemistry II                                  |
|                       | <u>and CHEM 121-1 General Chemistry Laboratory II</u> |
| <del>CHEM 120-1</del> | <del>General Chemistry Laboratory I</del>             |
| <del>CHEM 121-1</del> | <del>General Chemistry Laboratory II</del>            |
| CPSC 110-3            | Introduction to Computer Systems and Programming      |
| ENGR 110-3            | Technical Writing                                     |
| ENGR 117-3            | Engineering Design 1                                  |
| ENGR 130-4            | Mechanics of Materials I                              |
| ENGR 151-1            | Engineering Tools I                                   |
| ENGR 152-1            | Engineering Tools II                                  |
| MATH 100-3            | Calculus I  |
| MATH 101-3            | Calculus II   |
| MATH 220-3            | Linear Algebra  |
| PHYS 110-4            | Introductory Physics I: Mechanics                     |

### **Second Year (Semesters 3 & 4)**

|  |   |
|--|---|
| ENGR 210-3   | Materials and Energy Balance                              |
| ENGR 211-3   | Engineering Communication                                 |
| ENGR 217-4   | Engineering Design II                                     |
| ENGR 220-4   | Engineering Chemistry                                     |
| ENGR 221-3   | Thermodynamics & Heat Transfer                            |
| ENGR 254-4   | Fluid Mechanics I   |
| ENGR 270-3   | Surveying   |
| ENSC 201-3   | Weather and Climate                                       |
| ENVE 222-3   | Engineering Biology                                       |
| FSTY 205-3   | Introduction to Soil Science                              |
| <u>or GEOG 210-3 Introduction to Earth Science</u> |   |
| MATH 200-3   | Calculus III  |
| MATH 230-3   | Linear Differential Equations and Boundary Value Problems |
| STATS 371-3  | Probability and Statistics for Scientists and Engineers   |

One of the following:

- ~~FSTY 205-3 Introduction to Soil Science~~
- ~~GEOG 210-3 Introduction to Earth Science~~

### Third Year (Semesters 5 & 6)

|            |  |
|------------|--|
| CIVE 260-4 | Soil Mechanics I                               |
| ENGR 300-3 | Sustainable Principles of Engineering          |
| ENGR 353-3 | Hydrology and Open Channel Flow                |
| ENGR 354-4 | Fluid Mechanics II                             |
| ENGR 358-4 | Waste and Waste Water Systems                  |
| ENGR 380-3 | Engineering Economics                          |
| ENVE 310-3 | Environmental Engineering Processes            |
| ENVE 317-3 | Engineering Design III - Municipal Engineering |
| ENVE 318-3 | Environmental Eng. Measurement Lab             |
| ENVE 351-4 | Groundwater Flow and Contaminant Transport     |

6 credit hours chosen from the lists of electives

### Fourth Year (Semesters 7 & 8)

|            |   |
|------------|---|
| ENGR 410-3 | Professional Practice & Law               |
| ENGR 412-3 | Engineering Business & Project Management |
| ENSC 406-3 | Environmental Modelling                   |
| ENVE 400-3 | Capstone Design Project I                 |
| ENVE 401-6 | Capstone Design Project II                |
| ENVE 430-3 | Energy Systems                            |
| ENVE 455-3 | Engineering Hydrology                     |

12 credit hours chosen from the lists of electives

### Electives

Electives must be chosen from the following lists.

6 credit hours of the following:

|            |                        |
|------------|------------------------|
| CIVL 370-3 | Transportation Systems |
|------------|------------------------|

|            |  |
|------------|--|
| CIVL 451-3 | Building Physics                         |
| CIVL 481-3 | Urban and Regional Planning              |
| ENVE 421-3 | Contaminant Transport in the Environment |
| ENVE 462-3 | Geo-environmental Engineering            |

6 credit hours of the following:

|            |   |
|------------|---|
| ENSC 307-3 | Introduction to Geochemistry                        |
| ENSC 308-3 | Northern Contaminated Environments                  |
| ENSC 325-3 | Soil Physical Processes and the Environment         |
| ENSC 412-3 | Air Pollution                                       |
| ENSC 425-3 | Climate Change and Global Warming                   |
| ENSC 450-3 | Environmental and Geophysical Data Analysis         |
| ENSC 452-3 | Reclamation & Remediation of Disturbed Environments |
| FSTY 205-3 | Introduction to Soil Science                        |
| FSTY 345-3 | Wood Materials Science                              |
| FSTY 425-3 | Soil Formation and Classification                   |
| GEOG 205-3 | Cartography and Geomatics                           |
| GEOG 210-3 | Introduction to Earth Science                       |
| GEOG 311-3 | Drainage Basin Geomorphology                        |

3 credit hours of the following:

|            |   |
|------------|---|
| ENPL 305-3 | Environmental Impact Assessment                         |
| ENPL 401-3 | Environmental Law                                       |
| ENVS 230-3 | Introduction to Environmental Policy                    |
| ENVS 414-3 | Environmental and Professional Ethics                   |
| FNST 304-3 | Indigenous Environmental Philosophy                     |
| GEOG 202-3 | Resources, Economies, and Sustainability                |
| GEOG 401-3 | Tenure, Conflict and Resource Geography                 |
| GEOG 403-3 | First Nations and Indigenous Geographies                |
| NREM 303-3 | Aboriginal Perspectives on Land and Resource Management |
| NREM 306-3 | Society, Policy and Administration                      |
| POLS 100-3 | Contemporary Political Issues                           |

3 credit hours of Humanities and Social Sciences courses with subject matter that deals with the central issues, methodologies, and thought processes of the Humanities and Social Sciences (for example, any ANTH, ENGL, ENVS, FNST, HIST, INTS, NORIS, PHIL, POLS, or WMST course that does not principally impart language skills or statistics). GEOG and ENPL courses may qualify with the approval of the Chair.

## **ENVIRONMENTAL ENGINEERING DEGREE PROGRAM REQUIREMENTS (UNBC/UBC JOINT PROGRAM)**

Engineers serve society across a wide range of economic sectors, and an increased number of engineering graduates are needed by the province to assure its economic growth and maintain its high quality of life. Therefore, future development decisions in most major sectors of the British Columbia economy must fully integrate environmental and economic factors. Problems in water, air and soil pollution control and remediation, solid waste management, mine waste disposal, and geoenvironmental engineering require highly skilled engineers with a solid background in environmental engineering, strong communication skills and the ability to

~~work across disciplines. The program prepares graduates for a wide range of employment opportunities where the technical expertise and problem-solving skills of engineers are needed in conjunction with a strong awareness and understanding of environmental issues and problems. This is the case for resource based industries (e.g., forestry, fisheries, mining, oil and gas, pulp and paper, and the agri-food industry); various government departments and research organizations; and environmental engineering consulting companies. Graduates may work in the new environmental economy in areas such as environmental protection, reclamation, remediation and restoration.~~

The Environmental Engineering Bachelor of Applied Science program is a 4.5 year (nine semester) joint degree between the University of British Columbia and the University of Northern British Columbia. The program is based on a unique collaboration between UNBC and UBC that capitalizes on the strength of UNBC in Environmental Science and the strength breadth and depth of engineering at UBC in Engineering. It incorporates complementary elements and expertise from each institution while exposing students to the distinctive character of both institutions. The program starts with a two-year foundation in mathematics and basic and environmental sciences from UNBC. In the third and fourth years, the program provides a thorough education and training in engineering fundamentals, engineering analysis and engineering design, largely through courses in Civil Engineering and Chemical and Biological Engineering at UBC. The final term at UNBC exposes students to practical environmental engineering problems.

The joint UNBC/UBC Environmental Engineering program is accredited by the Canadian Engineering Accreditation Board.

### **Regulations**

Unless otherwise specified, the rules and regulations are those applicable at the institution (UBC or UNBC) at which the students are attending at the time the rules/regulations need to be applied. In the case where the rules and regulations are needed to cover the program as a whole, or where the institution of attendance is not relevant, then the more stringent rules/regulations will be are applied. ~~Any a~~Academic appeals ~~will be are~~ handled using the procedures at the institution where the rules/regulations need to be applied.

### **Leave of Absence**

Students wanting to take a Leave of Absence must apply to the Environmental Engineering Advisor at the institution that the student is currently attending. Upon approval, students are eligible for up to a one-year Leave of Absence. Students who do not apply for a Leave of Absence are withdrawn from the Environmental Engineering program.

### **Transit between institutions**

Transit between years and institutions requires good academic standing in the program at the most recent institution of residence (UNBC or UBC).

At UNBC, ~~this means students must be in~~ good academic standing, means a student must have a Cumulative GPA of 2.00 or greater in required 1st and 2nd year courses (including 3 credit hours of Humanities or Social Sciences), and must have successfully completed all ENGR, ENVE, MATH and STAT courses. For transit to UBC, all transit requirements must be met by April 30th of the year of transfer.

At UBC, this good academic standing means an average of at least 55%, and passing grades in at least 65% of the credits taken. Refer to the UBC Environmental Engineering website ([enve.ubc.ca](http://enve.ubc.ca)) for more details on UBC to UNBC transit requirements.

## Program Requirements

UNBC degree requirements: 91 credit hours  
UBC degree requirements: ~~74~~ 72 credit hours  
Total credits for degree: ~~462~~ 163 credit hours

### Semester 1 and 2 completed at UNBC

CHEM 100-3 General Chemistry I  
and CHEM 120-1 General Chemistry Laboratory I  
CHEM 101-3 General Chemistry II  
and CHEM 121-1 General Chemistry Laboratory II  
~~CHEM 120-1 General Chemistry Laboratory I~~  
~~CHEM 121-1 General Chemistry Laboratory II~~  
CPSC 110-3 Introduction to Computer Systems and Programming  
ENGR 110-3 Technical Writing  
ENGR 117-3 Engineering Design I  
ENGR 130-4 Mechanics of Materials I  
ENGR 151-1 Engineering Tools I  
ENGR 152-1 Engineering Tools II  
MATH 100-3 Calculus I  
MATH 101-3 Calculus II  
MATH 220-3 Linear Algebra  
PHYS 110-4 Introductory Physics I: Mechanics

### Semester 3 and 4 completed at UNBC

ENGR 210-3 Material and Energy Balances  
ENGR 211-3 Engineering Communication  
ENGR 217-3 Engineering Design II  
ENGR 220-3 Engineering Chemistry  
ENGR 254-4 Fluid Mechanics  
ENSC 201-3 Weather and Climate  
ENVE 222-3 Engineering Biology  
FSTY 205-3 Introduction to Soil Science  
or GEOG 210-3 Introduction to Earth Science  
MATH 200-3 Calculus III  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
STAT 371-3 Probability and Statistics for Scientists and Engineers

3 credit hours of Humanities and Social Sciences courses with subject matter that deals with the central issues, methodologies, and thought processes of the Humanities and Social Sciences (for example, any ANTH, ENGL, ENV5, FNST, HIST, INTS, NOR5, PHIL, POLS, or WMST course that does not principally impart language skills or statistics). GEOG and ENPL courses may qualify with the approval of the Chair.

Note: Lists for courses completed at UBC for semesters 5 through 8 are provided for

information only. Please refer to the UBC calendar for official requirements.

CHBE 244-3 Chemical and Biological Engineering Thermodynamics I  
~~CHBE 351-3 Transport Phenomena II~~  
CHBE 352-4 Transport Phenomena II  
CHBE 364-2 Environmental Engineering Laboratory  
CHBE 370-3 Fundamentals of Sustainable Engineering  
CHBE 373-3 Water Pollution Control  
CHBE 459-3 Chemical and Biological Engineering Economics  
or CIVL 403-3 Engineering Economic Analysis  
~~CHBE 484-3 Green Engineering Principles and Applications for Process Industries~~  
CHBE 485-3 Air Pollution Prevention and Control  
~~CIVL 200-3 Engineering and Sustainable Development~~  
CIVL 210-4 Soil Mechanics I  
CIVL 250-3 Engineering and Sustainable Development  
~~CIVL 311-4 Soil Mechanics II~~  
CIVL 315-4 Fluid Mechanics II  
CIVL 316-4 Hydrology and Open Channel Flow  
CIVL 402-3 Engineering Law and Contracts in Civil Engineering  
CIVL 408-3 Geoenvironmental Engineering  
CIVL 409-3 Municipal Engineering  
CIVL 416-3 Environmental Hydraulics  
CIVL 418-3 Engineering Hydrology  
EOSC 429-3 Groundwater Contamination  
MINE 486-3 Mining and the Environment

42 15 credit hours of technical electives chosen from a constrained list available at UBC.

**Semester 9 completed at UNBC**

ENGR 417-6 Engineering Design V  
ENPL 401-3 Environmental Law  
ENSC 418-3 Environmental Measurement and Analysis  
3 credit hours of Humanities or Social Sciences elective  
3 credit hours of elective

**Technical electives available at UNBC for the UBC portion of the curriculum in the UBC/UNBC Joint Environmental Engineering Program**

The following UNBC courses may be used to meet a Technical Elective requirement in the UBC portion of the Joint UBC/UNBC Environmental Engineering B.A.Sc. program. Normally, no more than one course from the list may be used. To qualify towards UBC technical elective requirements, the technical elective must be taken prior to transition to UBC.

ENSC 302-3 Low Carbon Energy Development  
ENSC 404-3 Waste Management  
ENSC 406-3 Environmental Modelling  
ENSC 408-3 Storms  
ENSC 425-3 Climate Change and Global Warming  
ENSC 450-3 Environmental and Geophysical Data Analysis

ENSC 452-3 Reclamation and Remediation of Disturbed Environments  
FSTY 345-3 Wood Materials Science  
NREM 410-3 Watershed Management

**S-202011.20**

**New Course Approval – FNST 331**

Jackson

That the new course FNST 331-3 – A First Nations Language: Level 5 be approved as follows.

Proposed semester of first offering: May 2021

CARRIED (*Consent agenda*)

**FNST 331-3 A First Nations Language: Level 5**

This course focuses on the mastery of the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, such as Gitxsanimx̓, Sm'algayax, X\_a'islak'ala, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan language, or Shushwap. Student transcripts indicate the specific language studied.

Prerequisites: FNST 232-3, or equivalent, in the appropriate language

**S-202011.21**

**New Course Approval – FNST 332**

That the new course FNST 332-3 – A First Nations Language: Level 6 be approved as follows.

Proposed semester of first offering: May 2021

CARRIED

**FNST 332-3 A First Nations Language: Level 6**

This course focuses on the mastery of the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, such as Gitxsanimx̓, Sm'algayax, X\_a'islak'ala, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan language, or Shushwap. Student transcripts indicate the specific language studied.

Prerequisites: FNST 331-3, or equivalent, in the appropriate language

**S-202011.22**

**Change(s) to Course Description – FNST 203**

Schinkel

That the changes to the course description for FNST 203-3 – Introduction to Traditional Ecological Knowledge on page 225 of the 2020/2021 undergraduate calendar be approved as proposed.

**Effective Date:** January 2021

CARRIED (*Consent agenda*)

**FNST 203-3 Introduction to Traditional Ecological Knowledge**

Designed for students with an interest in First Nations traditional ecological knowledge (TEK) and Indigenous peoples, this course takes an theoretical and experiential approach to Indigenous ecological practices issues in British Columbia and beyond. Students explore and apply the discourse of Indigenous ecological knowledge introduced through literatures, discussion, and visits by local knowledge holders. This course may have a field trip component.

Prerequisites: FNST 100-3

**S-202011.23**

**Change(s) to Course Description – FNST 416**

Schinkel

That the changes to the course description for FNST 416-3 – Traditional Use Studies on page 230 of the 2020/2021 undergraduate calendar be approved as proposed.

**Effective Date:** January 2021

CARRIED (*Consent agenda*)

**FNST 416-3 Indigenous Issues in International Perspective**

Indigenous Issues in International Perspective. This course is an advanced seminar in which issues such as Indigenous land rights, relations to nation states, and Indigenous socio-cultural development ~~cultural harmony~~ are examined by presenting cases from a variety of international groups perspectives.

Prerequisites: FNST 100-3 or permission of the instructor.

**S-202011.24**

**Change(s) to Course Description – FNST 451**

Schinkel

That the changes to the course description for FNST 451-3 – Traditional Use Studies on page 230 of the 2020/2021 undergraduate calendar be approved as proposed.

**Effective Date:** January 2021

CARRIED (*Consent agenda*)

**FNST 451-3 Traditional Use Studies**

This course is An advanced seminar on traditional land use and occupation studies, their use, application, and development. This seminar ~~will~~ examines methods of recording patterns of traditional use by Indigenous peoples; explores the origins and development of this field; reviews case studies; and reviews recent applications mapping techniques; and contemporary policies. The course may have a field trip component.

Prerequisites: ANTH 1042-3, or ANTH 213-3, or FNST 100-3 or permission of instructor

Precluded: ANTH 451-3

**ANTH 451-3 Traditional Use Studies**

This course is An advanced seminar on traditional land use and occupation studies, their use, application, and development. This seminar ~~will~~ examines methods of recording patterns of traditional use by Indigenous peoples; explores the origins and development of this field; reviews case studies; and reviews recent applications mapping techniques; and contemporary policies. The course may have a field trip component.

Prerequisites: 60 Credit hours or permission of instructor

Recommended: ANTH 102-3, ~~or~~ ANTH 213-3 or FNST 100-3

Precluded: FNST 451-3

**Motion to Postpone**

Deo

Motion to postpone item .25 and .26

Motion defeated

**S-202011.25**

**Change(s) to the Calendar – Graduate Calendar**

Lewis

That the title Vice President, Research and Graduate Programs or Vice Provost Student Recruitment be changed to Dean and the language “or designate” removed, on noted pages (in the print or PDF calendar accessible on the UNBC web page) of the 2020/2021 Graduate Calendar Programs section, be approved as proposed.

Effective date: September 2020

CARRIED

[The VPR indicated that current practice is for the authority to fall to the College Deans and as of April 1, 2021 it will be the Faculty Deans.]

The VPR has initiated a Graduate Advisory Group to address procedural issues with graduate programs, and plan for move to 5 faculty structure. As recommendations and changes are proposed by the Advisory Group further motions will be coming to Senate for approval.

Senate discussed the Effective Date, given that this is the current practice the date remained at September 2020.}

**Graduate Programs Admissions and Regulations**

1.3.3 A faculty member who wishes to supervise an applicant who has a four-year (120 credit hours) Baccalaureate degree (or equivalent) that does not meet the GPA requirements stated above and who obtains the recommendation of the appropriate program must have approval from the ~~Vice Provost Student Recruitment or designate~~ Dean who admits the applicant. The applicant must have significant formal training and relevant professional experience to offset such GPA deficiencies.

**1.4 Admission to the Master’s Degree as a Conditionally Admitted Mature Student**

Five years after completion of a Baccalaureate degree as defined in 1.3.1, applicants whose academic record is such that they would not be admissible to a Master’s program may be admitted conditionally as mature students, provided they are recommended by the appropriate Program. Such recommendations must be made in writing by the Program and approved by the ~~Vice Provost Student Recruitment or designate~~ Dean . . . . The first two courses will be determined by the Program and approved by the ~~Vice Provost Student Recruitment or designate~~ Dean.

1.5.4 If a student admitted as a non-degree student is later admitted to a graduate degree program, coursework taken as a non-degree student may be applied to the graduate program subject to the recommendation of the supervisory committee and the approval of the ~~Vice President Research and Graduate Programs or designate~~ Dean. (pg. 23)

**1.7.1 Admission requirements satisfied but course background inappropriate or prerequisites lacking**

Upon the recommendation of the Program concerned, the ~~Vice Provost Student Recruitment or designate~~ Dean may approve the inclusion of the missing background or prerequisites as part of the requirements for the Master’s degree.

**1.7.2 Pre-Entry Program**

When admission requirements are not satisfied and upon the recommendation of the Program concerned, the ~~Vice Provost Student Recruitment or designate~~ Dean may approve a pre-entry program of undergraduate coursework totaling at least 12 credit hours of upper division courses. An average of not less than 3.33 (B+)

must be achieved in the coursework, and no course must be completed at a level below 2.67 (B-). Courses taken for a pre-entry program may not be used for credit towards a graduate degree. Students approved by the ~~Vice Provost Student Recruitment~~ Dean for a pre-entry program are guaranteed admission to the appropriate Graduate Program upon successful completion of the recommended courses.

1.9.1 Students in their final year of a Bachelor's degree program at UNBC who have a GPA of at least 3.33 (B+) in the last 30 credit hours of coursework attempted and have completed all required lower-division coursework may be permitted to register in a maximum of 6 credit hours of graduate courses at the Master's level with the permission of the Instructor and the Graduate Program concerned and with the approval of the ~~Vice President Research and Graduate Programs~~ or designate Dean. (pg. 24)

2.5.1 ... Under exceptional circumstances and only as recommended by the supervisor and approved by the ~~Vice President Research and Graduate Programs~~ or designate Dean, a further leave of absence may be granted. (pg. 25)

2.5.3 Students who wish to withdraw from their Graduate Program, and have their transcript indicate that they were in good standing when they withdrew, must apply using the Request to Withdraw Form to the ~~Vice President Research and Graduate Programs~~ or designate Dean, with supporting documentation from their supervisor. The transcript will record the notation: "Withdrawn with Permission". (pg. 26)

## 2.6 Letter of Permission for Studies Elsewhere

**Students currently registered in a Graduate Program who wish to undertake studies at another institution for transfer credit toward their graduate degree at UNBC must apply in writing to the ~~Vice President Research and Graduate Programs~~ or designate Dean, specifying the host institution, the courses to be taken, and their credit values. (pg. 26)**

### 2.6.1 Western Deans' Agreement

Students currently registered in a graduate program who wish to undertake studies at a western Canadian university for transfer credit toward their graduate degree at UNBC may be eligible for exchange status under the provision of the Western Deans' Agreement.... The application must be submitted to, and supported by, the supervisor. If the application is approved by the ~~Vice President Research and Graduate Programs~~ or designate Dean, the university concerned is notified by the Office of Graduate Programs. All applicable tuition fees are waived by the host institution. (pg. 26)

4.1.2 Graduate Supervision Unless otherwise specified, the graduate supervisor nominates the supervisory committee and the Program forwards the names to the ~~Vice President Research and Graduate Programs~~ or designate Dean for approval, normally within one semester of the first registration in the thesis, project, practicum, comprehensive examination or dissertation. (pg. 26)

4.2.2 If a degree is not completed within the specified period following the first registration, the student will be withdrawn from the program. Under exceptional circumstances, time extensions may be granted by the ~~Vice President Research and Graduate Programs~~ Dean. (pg. 27)

## 4.3 Academic Performance

**A student who fails to meet academic standards, or whose thesis, project, practicum, or comprehensive examination is not progressing satisfactorily, may be Required to Withdraw by the ~~Vice President Research and Graduate Programs~~ Dean on the advice of the supervisor and supervisory committee. (pg. 27)**

4.3.1 Students must attain a Semester GPA of at least 3.00 (B) for every semester in which they are registered. Individual programs may set higher standards. Any student with a Semester GPA below 3.00 may be allowed to register in the next semester while their academic performance is reviewed by their supervisory committee. Continuation in their Graduate Program is recommended by the supervisory committee subject to approval by the ~~Vice President Research and Graduate Programs~~ Dean. (pg. 27)

**4.3.2 A grade of F in a course taken for credit in a Graduate Program must be reviewed by the supervisory committee and a recommendation must be made to the ~~Vice President Research and Graduate Programs~~ Dean concerning continuance of the student in the program. Such students will not be allowed to register in the next semester until approved to do so by the ~~Vice President Research and Graduate Programs~~ Dean. (pg. 27-28)**

4.3.3 Graduate students may not repeat graduate courses except under exceptional circumstances if recommended by the supervisory committee ~~subject to approval and approved~~ by the ~~Vice President Research and Graduate Programs or designate~~ Dean. (pg. 28)

4.3.4 If the progress report indicates a second Needs Improvement or Unsatisfactory progress, the supervisory committee, with the Graduate Program Chair, reviews the student's continuation in a formal continuance review meeting and submits recommendations to the ~~Vice President Research and Graduate Programs~~ Dean for final decision. (pg. 28)

4.3.5 Conditions may be imposed by the ~~Vice President Research and Graduate Programs or designate~~ Dean for continuation in the program. The conditions normally must be met within the next semester or the student will be Required to Withdraw. (pg. 28)

#### 4.4.1 Supervisor

Each Master's student shall have, at the time of their application for admission, identified and gained the agreement of a member of the faculty assigned as a supervisor (or academic advisor). Subject to an offer of admission to the program, the agreement is approved by the ~~Vice President Research and Graduate Programs~~ Dean.

The role of the supervisor is to provide advice, guidance, instruction and encouragement in the research activities of their students and to evaluate their progress and performance. The supervisor must be aware of and adhere to the various and relevant university regulations; provide guidance to the student on the nature of research, the standards required, the adequacy of the student's progress, and the quality of the student's work; and be accessible to the student to give advice and constructive criticism.

... Supervisors who expect to be absent from the University for an extended period of time (including during sabbaticals) are responsible for making suitable arrangements (including the appointment of a temporary replacement) with the student and the chair of the program, or if applicable, the chair of the graduate committee for the continued supervision of the student or the nomination of another supervisor. All changes of this nature must be approved by the ~~Vice President Research and Graduate Programs~~ Dean, who can recommend further changes of the supervisor or supervisory committee. (pg. 28)

#### 4.4.2 Supervisory Committee

Each student shall have a supervisory committee nominated by the Program and approved by the ~~Vice President Research and Graduate Programs~~ Dean ...

A member of a supervisory committee who has an adjunct or emeritus position with UNBC cannot be the sole supervisor of a graduate student. A faculty member who leaves UNBC cannot remain as the sole supervisor for a graduate student. The chair of the degree program ~~will be~~ is expected to ensure that a new supervisor or co-supervisor is appointed from existing faculty.

All such changes require the approval of the ~~Vice President Research and Graduate Programs~~ Dean who may recommend further changes of the supervisor or supervisory committee. (pg. 28)

#### 4.5.1 Final Oral Examinations and Examining Committees General Regulations

b. Degrees that have a final examination by project, comprehensive exam, major paper, etc., may be examined in a manner agreed upon by the Program and the ~~Vice President Research and Graduate Programs or designate~~ Dean; otherwise, the examination shall be as for theses. ...

e. The ~~Vice President Research and Graduate Programs~~ (or designate) Dean acts as Chair at the oral examination. Any tenured member of the faculty at the Associate Professor level or higher with extensive experience in Graduate Programs is eligible to serve as the ~~Vice President's~~ Dean's designate.

f. Normally, the oral examinations are open to the University community. Copies of the thesis abstract shall be made available to all those attending the examination. The ~~Vice President Research and Graduate Programs~~ or designate Dean shall have the right to attend all phases of the examination. In rare circumstances where a public examination would be detrimental to the student or the sponsor of the research, to have it made public, the author of the thesis, project or dissertation may request a closed oral examination. The request for a closed oral examination must be made in writing to the ~~Vice President Research and Graduate Programs~~ or designate Dean for review and approval when the Request for Oral Examination is made. (pg. 28 – 29)

4.5.2 ... For Master's degrees without a thesis, the membership of the final oral examining committee and the examination procedure shall be determined and approved by the Program and the ~~Vice President Research and Graduate Programs~~ or designate Dean (see 4.5.1a). (pg. 29)

#### 4.5.4 Results of Oral Examinations

The decision of the examining committee shall be based on the content of the scholarly work or thesis as well as the candidate's ability to defend it. After the examination, the committee shall recommend to the ~~Vice President Research and Graduate Programs~~ or designate Dean one of the following results: ...

d. ... When an examination is adjourned, each member of the examining committee shall make a written report to the Office of Graduate Programs within 14 calendar days of the date of the oral examination. After reviewing these reports, the ~~Vice President Research and Graduate Programs~~ or designate Dean sets a date for reconvening the examination. The ~~Vice President Research and Graduate Programs~~ or designate Dean shall also determine whether or not the composition of the original committee is appropriate for the reconvened examination. The date for reconvening shall be no later than six months from the date of the first examination. If the date for reconvening falls outside the last day of the semester in which the adjourned oral examination took place, registration for the subsequent semester is required in order to maintain continuous registration (See 2.2.1).

7.1.3 The ~~Vice Provost Student Recruitment~~ or designate Dean may approve the admission of an applicant to a Doctoral program without a Master's degree if the applicant has received a Baccalaureate degree from a recognized institution with a cumulative GPA of at least 3.67 (A-) and has completed at least two semesters of a Master's degree program at UNBC with a cumulative GPA of at least 3.67 (A-).

#### 7.1.4 Continuation to a Doctoral Program

Students enrolled in a Master's program at UNBC may continue to a Doctoral program prior to completion of the Master's degree. Students may apply to be transferred to Doctoral status no sooner than two semesters after initial registration in the Master's program at UNBC. After a review, which must include an evaluation by the student's supervisory committee, the Program ~~will recommend~~s to the ~~Vice Provost Student Recruitment~~ or designate Dean one of the following: ....

Students admitted to a Doctoral program under 7.1.4.a must complete courses from the Master's and Doctoral programs as recommended by the existing Supervisory Committee and approved by the ~~Vice Provost Student Recruitment or designate~~ Dean.

## 7.5 Course Transfer

On the recommendation of the Program concerned, the ~~Vice President Research and Graduate Programs or designate~~ Dean may accept courses taken at other recognized universities for credit towards a Doctoral program. However, at least half of the courses taken for the degree must be taken as a graduate student at UNBC. (pg. 32)

7.7.2 If a degree is not awarded within seven years of the first registration, the student will be withdrawn from the program. Under exceptional circumstances, time extensions may be granted by the ~~Vice President Research and Graduate Programs or designate~~ Dean. Such requests for time extension must be made in writing to the Office of Graduate Programs prior to the end of the semester in which the student's time limit expires. The request must include a timeline for the completion of the degree, accompanied by supporting documentation from the student's supervisor. (pg. 32)

## 7.8.1 Supervision

Each Doctoral candidate has, at the time of their application for admission, identified and gained the agreement of a member of faculty to act as supervisor. Subject to an offer of admission to the program, the agreement is approved by the ~~Vice President Research and Graduate Programs or designate~~ Dean. ... Supervisors who expect to be absent from the University for an extended period of time (including during sabbaticals) must make suitable arrangements (including the appointment of a temporary replacement if appropriate) with the student and the Chair of the program, or if applicable the chair of graduate committee for the continued supervision of the student, or must request that the Program or College nominate another Supervisor to be approved by the ~~Vice President Research and Graduate Programs or designate~~ Dean.

A member of a supervisory committee who has an adjunct or emeritus position with UNBC cannot be the sole supervisor of a graduate student. A faculty member who leaves UNBC cannot remain as a sole supervisor for a graduate student. The chair of the degree program ~~will be~~ is expected to ensure that a new supervisor or co-supervisor is appointed from existing faculty. All such changes require the approval of the ~~Vice President Research and Graduate Programs or designate~~ Dean who may recommend further changes of the supervisor or supervisory committee. (pg. 32)

## 7.8.2 Supervisory Committee

Each student has a supervisory committee nominated by the chair of the program, or if applicable, the chair of the graduate committee and approved by the ~~Vice President Research and Graduate Programs or designate~~ Dean. The chair of this committee ~~will be~~ is the supervisor.

The duties of the committee include recommending a program of study chosen in conformity with degree program requirements, supervising the dissertation, and participating in a final oral examination. The committee may conduct other examinations, and recommends to the ~~Vice President Research and Graduate Programs or designate~~ Dean whether or not a degree shall be awarded to the candidate. (pg. 32-33)

7.9 When a student has successfully completed the candidacy examination, the chair of the program, or if applicable, the chair of graduate committee is responsible for sending

confirmation signed by all members of the supervisory committee to the ~~Vice President Research and Graduate Programs~~ or designate Dean. (pg. 33)

#### 7.10.1 Formation of the Examining Committee

The final oral examining committee for the Doctoral degree shall consist of the ~~Vice President Research and Graduate Programs~~ or designate Dean as Chair, the supervisory committee, and an external examiner from outside the university, who ~~will~~ normally attends the oral examination. ....

A judgement of unsatisfactory performance by a doctoral supervisory committee member ~~will~~ be is reviewed by the ~~Vice President Research and Graduate Programs~~ or designate Dean, but normally constitutes grounds for not sending a copy of the dissertation to the external examiner. (pg. 33)

7.10.2 The student's supervisory committee recommends the external examiner, and the supervisor then makes an informal inquiry as to the prospective external examiner's willingness to serve. If the individual is prepared to serve, the nomination is then made by the supervisor supported by the appropriate Chair to the ~~Vice President Research and Graduate Programs~~ or designate Dean who makes the formal invitation to the external examiner. ...

The ~~Vice President Research and Graduate Programs~~ or designate Dean will request that the external examiner provide a detailed report on the merits and deficiencies of the dissertation, as well as an overall evaluation using the same categories as those used by internal examiners. The external examiner is requested to present the report to the Office of Graduate Programs within one month of the receipt of the dissertation. Adequate time must be allowed for the transmission of the dissertation and the receipt of the report. A judgement of unsatisfactory performance by the external examiner will be reviewed by the ~~Vice President Research and Graduate Programs~~ or designate Dean, but normally constitutes a failed attempt of the dissertation defence. (pg. 33 - 34)

#### 7.10.3 Changes in the Examining Committee

The ~~Vice President Research and Graduate Programs~~ or designate Dean must also approve changes to the membership of the examining committee. (pg. 34)

7.10.6 ... In exceptional cases, the final oral examination may be closed, for example, when the results of the dissertation research must be kept confidential for a period of time. In such cases, the doctoral supervisory committee members and Graduate Program Chair shall recommend such action to the ~~Vice President Research and Graduate Programs~~ or designate Dean who may then approve that the final oral examination be closed to all but the examining committee and the ~~Vice President Research and Graduate Programs~~ or designate Dean. (pg. 35)

#### 7.10.9 Report of the Committee

The final judgment of the examiners on the dissertation and the oral examination shall be reported to the ~~Vice President Research and Graduate Programs~~ Dean in the term "pass" or "fail". ... (pg. 35)

### VII. General Academic Regulations

#### 10. Registration After the Published Revision Deadline Date

No graduate student is permitted to alter their registration for any course after the last date to revise registration as published in the Calendar except on the express written permission of the instructor and the ~~Vice President Research and Graduate Programs or designate Dean~~. (pg. 38)

## 12. Repeating Courses

Graduate students may not repeat graduate courses except under exceptional circumstances and only with the approval of the ~~Vice President Research and Graduate Programs or designate Dean~~ on the recommendation of the supervisory committee. (pg. 38)

## 18. Academic Distinction

Each year a very small number of students will be graduated with Distinction. Selection criteria take into account the student's overall academic record and, as appropriate, the quality of the thesis; and are applied by a Dean's Committee on Graduate Honours chaired by the ~~Vice President Research and Graduate Programs or designate Dean~~. Students do not apply for graduation with distinction. (pg. 39)

## 27. Appeals Concerning Academic Relationships

... b. If this cannot be done, or if the nature of the problem is such that the student does not wish to attempt it, the student should seek the advice of the ~~Vice President Research or designate Dean~~ who shall follow one of the following procedures:

- i. If the ~~Vice President Research Dean~~ thinks it advisable, the ~~Vice President Dean~~ shall seek to bring about a solution through informal means;
- ii. After assessing the evidence that is presented, if in the opinion of the ~~Vice President Research~~ the complaint is invalid, the ~~Vice President Research Dean~~ shall advise the student of this opinion, and take no further action;
- iii. After assessing the evidence that is presented, if in the opinion of the ~~Vice President Dean~~ the complaint is valid but an informal solution is unlikely, or if the ~~Vice President Dean~~ has attempted an informal solution and has failed, he/she shall advise the student of this fact;... (pg. 41)

Business Administration (MSc)

... Both sets of requirements (i.e., mathematics/statistics and content specialization in business) may be completed as part of a Pre-Entry Program for Admission to Graduate Studies, as set out by the Business Graduate Studies Committee and as approved by the ~~Vice Provost Student Recruitment or designate Dean~~. (pg 44).

Education (MEd Program)

Provided that such courses have not been associated with the receipt of either a degree or diploma from UNBC or another educational institution, students may apply to the ~~Vice Provost Student Recruitment or designate Dean~~ for up to six 6 credit hours for of previously completed graduate-level coursework that is equivalent to that completed in

the MEd program. (pg. 48)

## Gender Studies (MA Program)

... The thesis will includes a written text (maximum of 100 pages) and will be is defended in an oral examination. Students interested in alternative forms of presentation must obtain special permission from the Chair of the Program and ~~Vice President Research and Graduate Programs or designate Program Dean~~.

... Students taking either the MA with Thesis or MA without Thesis may take courses in other graduate programs with the approval of the Chair or the Coordinator of the Gender Studies Program and the ~~Vice President Research and Graduate Programs or designate Program Dean~~. (pg. 56)

Interdisciplinary Studies (MA and MSc Programs)

... 6. Program willingness to participate in your academic program is required, necessitating signatures on the Interdisciplinary Graduate Program Proposal Coversheet as follows:

• Student signs form and gives it to the Supervisor who then obtains signatures from the Supervisor's Chair, IDIS Program Chair, and ~~Vice President Research and Graduate Programs or designate Program Dean~~; (pg. 62)

### **Mathematical, Computer, Physical, and Molecular Sciences (MSc Program)**

Transfer Students

On the recommendation of the program concerned, the ~~Vice Provost Student Recruitment or designate Program 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. (pg. 67)

### **Natural Resources and Environmental Studies (MA Program)**

Transfer Students

On the recommendation of the program concerned, the ~~Vice Provost Student Recruitment or designate Program Dean~~ may accept courses taken at other institutions for credit toward a UNBC graduate program. (pg. 69)

### **Natural Resources and Environmental Studies (MNRES Program)**

Transfer Students

On the recommendation of the program concerned, the ~~Vice Provost Student Recruitment or designate Program Dean~~ may accept courses taken at other institutions for credit toward a UNBC graduate program. (pg. 71)

### **Natural Resources and Environmental Studies (MSc Program)**

Transfer Students

On the recommendation of the program concerned, the ~~Vice Provost Student Recruitment or designate Program Dean~~ may accept courses taken at other institutions for credit toward a UNBC graduate program. (pg. 74)

### **Natural Resources and Environmental Studies (PhD Program)**

Third to Fifth Year: Thesis

... Under normal circumstances, a student is expected to complete their research and the writing of the thesis within three years of becoming a doctoral candidate.

Any student requiring more than three years (6 semesters) to complete a thesis must request an extension from their advisor and the ~~Vice President Research and Graduate Programs or designate Dean~~. (pg. 76)

Supervisory Committee Structure

The PhD Committee ~~will~~ consists of the designated advisor and a minimum of three additional faculty members, at least one of whom will be chosen from outside the Natural Resources and Environmental Studies Graduate Program. The outside faculty member may be chosen from post-secondary institutions accredited in Canada. Under exceptional circumstances, and with approval from the ~~Vice President Research and Graduate Programs or designate Dean~~, additional members may be added at the request of the student or the advisor. (pg. 77)

## **S-202011.26**

### **Change(s) to the Calendar – Graduate Program Admissions and Regulations**

Lewis

That the changes to Graduate Programs Admissions and Regulations section on Leave of Absence or Withdrawal from the University (2.5) amending the policy to expand and clarify types of leaves and withdrawals (in the [print](#) or PDF calendar accessible on the UNBC web page) of the 2020-2021 graduate calendar be approved as proposed.

Effective date: September 2020

[It was noted that the September 2020 date allows this motion to be applied immediately and provided further support and clarity to students in need. Senate discussed what is included in a 'personal leave'. This would not be a medical leave but allows a category of leave for other instances that a student may require leave.]

#### 2.5 Leave of Absence or Withdrawal from the University

Students in degree programs who wish to withdraw, either temporarily or permanently, must do so formally in accordance with the following procedures.

**2.5.1** Students who wish to request a leave of absence must apply using the Leave of Absence Form to the Office of Graduate Programs, with supporting documentation from their supervisor, and with detailed documentation (E.g., a doctor's note) explaining the need for such a leave. A student should apply prior to the beginning of the leave of absence or in the same academic year if the request is retroactive. A leave of absence is normally for no more than one year in a graduate degree program. Under exceptional circumstances and only as recommended by the supervisor and approved by the Vice President Research and Graduate Programs or designate, a further leave of absence may be granted. Students cannot undertake academic or research work nor use any of the University's facilities during the period of leave. After the leave of absence is completed, students must register for the next semester. The transcript will record the notation: "Leave of Absence".

**2.5.2** Time spent on an approved leave of absence (see 2.5.1) is not counted as part of the total time allowed for completion of the degree program (see 4.2).

**2.5.3** Students who wish to withdraw from their Graduate Program and have their transcript indicate that they were in good standing when they withdrew, must apply using the Request to Withdrawn Form to the Vice President Research and Graduate Programs or designate, with supporting documentation from their supervisor. The transcript will record the notation: "Withdrawn with Permission".

**2.5.4** The transcript of students who fail to notify the University of their intention to withdraw from their Graduate Program or who have not maintained continuity of registration in accordance with Regulation 2.2.1 will record the notation "Withdrawn without Permission."

#### **Leave of Absence**

A student may request a leave of absence when personal, health, parental, professional or academic reasons (as detailed below) interrupt studies. Leaves of absence are approved by the supervisor (where appointed) and [friendly amendment to change 'or' to 'and'] Program Chair and Dean. Leaves normally start at the beginning of a semester (for a duration up to a maximum of 12 months or 18 months for parental leave). Extended leaves of absence are only granted on an exceptional basis, with very strong reasoning from the student, full support of the supervisor (where appointed) or Program Chair and approval of the Dean. The conditions for a return from a leave of absence may require that additional coursework be completed or repeated and additional criteria be established for continued study. Time spent on leave does not count towards the time limit for program completion. Procedures and documentation required for a leave of absence request are outlined on the Office of Graduate Programs website.

A student cannot undertake academic or research work during the period of leave and cannot hold a teaching or research assistant position. At least one month prior to the end of the leave of absence, students must inform their supervisor (where appointed) or Program Chair of their intention to return and register.

The request for a leave must be submitted two weeks prior to the start of the semester in which the leave will begin. Late requests can only be accepted under exceptional circumstances. Provided the request is received before the deadline, students on a leave of absence do not pay tuition or student fees for the duration of the leave.

### **Awards and Scholarships during On-Leave Status**

Award payments for awards established by the University of Northern British Columbia are suspended at the start of the leave of absence for up to a maximum of 12 months (or 18 months for parental leave) and resume upon the student's return, provided the student continues to meet all requirements for the award. For awards outside of the University, award payment during a leave is governed by the terms and conditions of leaves established by the donor or granting agency.

### **Leaves of Absence Categories**

#### **Personal Leave**

In the event a student encounters personal circumstances that have an impact on their ability to continue their studies, a maximum of 12 months leave may be taken over the duration of the degree program.

#### **Medical or Compassionate Leave**

Where circumstances warrant, a student may request medical or compassionate leave with appropriate supporting documentation.

#### **Parental Leave**

A student with parenting responsibilities for a newborn or newly-adopted child is entitled to a leave period of 18 months in each instance.

#### **Professional Leave**

A student may be eligible to suspend their program of study for a period up to 12 months in order to pursue work experience or employment in a field related to their area of study.

### **Withdrawals**

There are four types of withdrawals for discontinuation of studies:

#### **Withdrawal with Permission**

A student may voluntarily withdraw from studies provided they are in good academic standing at the time of the request and do not have outstanding tuition and/or fees.

#### **Compassionate Withdrawal with Extenuating Circumstances**

A student who is facing unanticipated extenuating circumstances or medical concerns may ask for withdrawal with the approval of the Dean. Retroactive withdrawals are considered only in the event of documentation substantiating an inability to provide timely notification.

#### **Withdrawal without Permission**

Graduate students are required to maintain continuous registration for the duration of their program. A student who has not maintained continuous registration is considered withdrawn without permission from their program. A student who has been withdrawn without permission and wishes to return to their program is normally considered under the criteria for reapplication (2.2.4). The conditions for return may require that additional coursework be completed or repeated and additional criteria may be established for continued study.

### **Required to Withdraw**

A student who is not meeting academic or program standards or whose thesis, dissertation, project, portfolio, comprehensive exam or practicum is not progressing satisfactorily may be required by the Dean to withdraw from their graduate program. Normally, a student required to withdraw is not considered for reentry into the same graduate program.

The dates published in the calendar for withdrawal without financial penalty and withdrawal without academic penalty apply.

CARRIED

Senator Aravind asked that his opposition to motion S-202011.25/26 be noted.

Senator Aravind: 'Three graduate students from the MCPMS Graduate Program have registered without the knowledge of their graduate program. Noting these violations, the MCPMS Program has been requesting information about these three students from the offices of graduate programs and the registrar for the last 5 months. They are continuously refusing to provide the information requested by the MCPMS Graduate Program or provide proper rational for their refusal. Now, as the Chair of MCPMS Graduate Program I could see the connection between the proposed changes and those cases'.

#### **11.2.1 SCAAF Art Acquisition Subcommittee (SAAS)**

##### **For Approval:**

###### **S-202011.27**

###### **Art Acquisition**

Allen

That the Indigenous Artwork Commission Proposal submitted to the University by Mr. Simon Daniel James of Kolus Arts (on behalf of Simon Daniel James and Simon Dick), and selected unanimously as the winning selection by members of the UNBC Indigenous Artwork Commission Adjudication Committee, be formally accepted and approved by Senate.

**Effective Date:** March 2020 decision; contract began in May 2020; and artist beginning work in Nov. 2020.

CARRIED

#### **11.2.2 SCAAF Subcommittee on Academic Scheduling (SSAS)**

###### **S-202011.28**

###### **Academic Scheduling Principles**

Jackson

That the Academic Scheduling Principles be approved as proposed.

**Effective Date:** Upon Approval of Senate

CARRIED

#### **11.3 Steering Committee of Senate**

**Payne**

**S-202011.29**

**Change(s) to the Senate Handbook**

Budde

That, on the recommendation of the Steering Committee of Senate, the Senate Committee on First Nations and Aboriginal People Terms of Reference and Membership be approved as proposed.

Effective Date: Upon the approval of Senate

CARRIED

**S-202011.30**

**Change(s) to the Senate Handbook**

Klassen-Ross

That, on the recommendation of the Steering Committee of Senate, the Senate Committee Academic Affairs Terms of Reference and Membership be approved as proposed.

CARRIED

**11.4 Senate Committee on Nominations**

**For Approval Items:**

**S-202011.31**

**Recommendation of Senate Committee Members to Senate**

Parent

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

Effective date: November 26, 2020

**STEERING COMMITTEE OF SENATE**

Student Senator (08/31/2021)

Andrew Mitchell

CARRIED

**For Information Items:**

A list of vacancies was included in the meeting package.

**11.5 Senate Committee on Curriculum and Calendar** **Annear**

No report.

**11.6 Senate Committee on Admissions and Degrees** **Annear**

No report.

**11.7 Senate Committee on First Nations and Aboriginal Peoples** **Harder**

Senator Harder gave verbal report.

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

No report.

**11.9 Senate Committee on Scholarships and Bursaries** **Annear**

No report.

**11.10 Senate Committee on University Budget**

The Senate Committee on University Budget will be meeting in December/early January. This committee is still looking for a Committee Chair.

**12.0 Information**

None.

**13.0 Other Business**

None.

**14.0 S-202011.32**

**Move to the Closed Session**

That the meeting move to Close Session.  
CARRIED

**15.0 S-202011.37**

**Adjournment**

General Consent  
That the Senate meeting be adjourned.  
CARRIED

The meeting adjourned at 5:11 p.m.

DRAFT