

## SENATE MEETING OPEN SESSION AGENDA

January 25, 2023  
3:30 – 4:30 PM  
Senate Chambers/Zoom

### 1.0 Acknowledgement of Territory

### 2.0 S-202301.01

#### Approval of the Agenda †

Page 1 That the agenda for the January 25, 2023 Open Session of Senate be approved as presented.

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

### 3.0 Presentations – No presentation in open session

### 4.0 Approval of the Minutes

#### S-202301.02

#### Approval of the Minutes

Page 5 That the Minutes for the November 23, 2022 Open Session of Senate be approved as presented.

### 5.0 Business Arising

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

Payne

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

Rodgers

Page 34 7.1 Search Committees for Academic Vice-Presidents and Other Senior Academic Administrators – (for information)

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

Read

### 9.0 Question Period (10 minutes)

#### 9.1 Written questions submitted in advance

#### 9.2 Questions from the floor

### 10.0 Approval of Motions on the Consent Agenda

Payne

**S-202301.03**

**Approval of Motions on the Consent Agenda**

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

**11.0 Committee Reports**

**11.1 Senate Committee on Student Appeals**

**Klassen-Ross**

**11.2 Senate Committee on Academic Affairs**

**Rodgers**

**For Approval:**

**Page 41 S-202301.04**

*Consent*

**Change(s) to Program Requirements – Computer Science and Physics**

That the change(s) to the Joint Major in Computer Science and Physics Program Requirements on pages 80 and 81 of the PDF 2022/23 undergraduate calendar be approved as proposed.

**Effective date:** September 2023

**Page 46 S-202301.05**

*Consent*

**Change(s) to Program Requirements – Chemistry and Physics**

That the change(s) to the Joint Major in Chemistry and Physics Program Requirements on page 76 of the PDF 2022/23 undergraduate calendar be approved as proposed.

**Effective date:** September 2023

**Page 50 S-202301.06**

*Consent*

**Change(s) to Course Description – FNST 797**

That the change(s) to the MA Project course description for FNST 797-15, on page 122 of the 2022/2023 graduate calendar, be approved as proposed

**Effective date:** September 2023

**Page 52 S-20230105.07**

*Consent*

**Change(s) to Course Description – FNST 799**

That the change(s) to the Graduate Thesis course description for FNST 799-15, on page 122 of the 2022/2023 graduate calendar, be approved as proposed.

**Effective date:** September 2023

**11.3 Steering Committee of Senate**

**Payne**

**11.4 Senate Committee on Nominations**

**Zogas**

**Regular S-202301.08**

**Recommendation of Senate Committee Members to Senate**

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

**Effective date:** January 25, 2023

**For Approval Items:**

**SENATE COMMITTEE POSITION TO BE FILLED**

(except as otherwise noted, all terms begin immediately)

**CANDIDATE**

**Senate Committee on Academic Affairs**

Faculty Member

(until 03/31/3024)

David Casperson

## Senate Committee on Student Appeals

Student At Large  
(until 08/31/3023)

Cheri Brown

### For Information Items:

#### Senate Committee Vacancies

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

11.5	<b>Senate Committee on Curriculum and Calendar</b>	<b>Read</b>
11.7	<b>Senate Committee on Admissions and Degrees</b>	<b>Read</b>
11.7	<b>Senate Committee on Indigenous Initiatives</b>	<b>Rodgers</b>
11.8	<b>Senate Committee on Honorary Degrees and Special Forms of Recognition</b>	<b>Payne</b>
	11.8.1 Distinguished Alumni Awards	
11.9	<b>Senate Committee on Scholarships and Bursaries</b>	<b>Lewis</b>

### For Information

- Page 54** **SCSB20221123.05** (approved)  
**BC Hydro Environmental Studies Award**  
That the revised Terms and Conditions for the BC Hydro Environmental Studies Award be approved.  
Effective: 2023-2024 Academic Year
- Page 56** **SCSB20221123.03** (approved)  
**Sodexo Canada Award for Students with a Disability**  
That the new Terms and Conditions for the Sodexo Canada Award for Students with a Disability be approved.  
Effective: 2023-2024 Academic Year
- Page 58** **SCSB20221123.04** (approved)  
**Sodexo Canada Indigenous Award**  
That the new Terms and Conditions for the Sodexo Canada Indigenous Award be approved.  
Effective: 2023-2024 Academic Year
- Page 60** **SCSB20220928.11** (approved)  
**Spike Kendy Bursary**

That the revised Terms and Conditions for the Spike Kendy Bursary be approved on the condition that SCII reviews and approves the revisions.  
Effective: 2022-2023 Academic Year

- 11.10 Senate Committee on University Budget** **Gehloff**
- 12.0 Information**
- 13.0 Other Business**
- 14.0 S-202301.09 (10 minutes)**  
**Move to the Closed Session**  
That the meeting move to Close Session.
- 15.0 S-202301.26**  
**Adjournment**  
That the Senate meeting be adjourned.

Office of the Vice-President Academic and Provost

## MEMORANDUM

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To: Senate and the UNBC Board of Governors

From: Wendy M. Rodgers, Vice-President Academic and Provost

Date: January 12, 2023

Re: Changes to the Procedures: Search Committee for Academic Vice-Presidents and other Senior Academic Administrators

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Re: Comprising selection committee for the Dean, Faculty of Environment.

Due to the resignation of the Dean, it is necessary to select a new dean of the Faculty of Environment. Unfortunately, the Procedure: Search Committee for Academic Vice-Presidents and other Senior Academic Administrators (attached) is outdated and inappropriate for the current 5 faculty administrative structure of the University. In particular, the nomination and election of faculty representatives on the dean selection committee is insufficient. Furthermore, the procedure does not include attention to other employee groups. Of relevance to this selection are continuing Senior Lab Instructors and Senior Instructors who are important members of the Faculty.

An ad-hoc call for nominations procedure (also attached) was previously added to bridge from the 2 college structure to the 5 faculty structure, but does so in such a way that although there is good representation across the university as would be appropriate for a Vice President selection, it results in under-representation from the focal unit – the faculty itself – in a dean selection.


Pursuant to considerable consultation including two meetings with the faculty since December, and other individual discussions, I wrote the attached email to the faculty of the environment that sets out a more suitable composition of the committee that takes into consideration the need to have greater representation from the faculty itself, includes an SLI or SI member, and preserves the 2 additional spots reserved for addressing gaps in diversity or representation identified after the committee has been comprised as set out in the procedure.

I will be making similar adjustments to comprising a selection committee for the University Registrar, which is just underway now. The same issues of under representation of the focal unit, the Office of the Registrar, will be present and so I will have to adjust the nomination process for the '6 faculty members' as set out in the existing procedure. I do not know if I will have to add any employee groups excluded by the current procedure, and will still reserve the 2

additional spots to address gaps in diversity or representation after the committee has been comprised.

There is an urgent need to develop a new recruitment and selection procedure that appropriately addresses the five faculty structure of the university, and that also more explicitly addresses consideration of equity, diversity, and inclusion. A new procedure is being drafted now and we hope to get it through a thorough, but fast, consultation process to ensure the procedure appropriately supports the selection of new colleagues and superior functioning of the university. I anticipate these will be in front of the appropriate governance structures in the coming weeks.

There will be time for discussion of our recruitment and selection processes as the new procedures are brought through the governance process.

  <h1 style="text-align: center;">PROCEDURES</h1>	<b>Policy No:</b>	<b>Approval Date:</b> Board Motion #2019BC02.01.06 Senate Motion # S-201902.17
	<b>Approving Authority:</b> <i>Board of Governors and Senate</i>	
<b>Responsible Executive:</b> <i>President</i>		
<b>Title:</b>  <h2 style="text-align: center;"><i>Search Committees for Academic Vice-Presidents and other Senior Academic Administrators</i></h2>		

***S. 27(2)(f) of the University Act [RSBC 1996] c. 468, grants the Board the power: with the approval of senate, to establish procedures for the recommendation and selection of candidates for president, deans, librarians, registrar and other senior academic administrators as the board may designate;***

1. **Scope** – These Procedures apply to Search Committees for Senior Academic Administrators, including: Academic Vice-Presidents, Associate Academic Vice-Presidents, Vice-Provosts, Academic Deans, Senior Academic Directors, the Registrar, the University Librarian and any other senior academic administrator as the Board may designate. The Search Committees for the President, and for the Associate Vice-President Medicine are addressed in separate Procedures.
2. **Role of Search Committees** – Search Committees are advisory to the President and are tasked with generating ranked short lists of candidates for positions. Each Committee will:
  - review the position and desired qualifications and qualities of candidates, in consultation with appropriate constituents and constituency groups
  - review and advise on advertising
  - review the *General Search Process Rules* outlined below, and recommend reasonable modifications to the Chair, as appropriate for specific searches or positions
  - oversee the fair and equitable application of the *General Search Process Rules*, with the advice of Human Resources professionals, and external search consultants if applicable
  - Ensure best practices are followed with respect to confidentiality and declarations of conflict of interest and bias
  - Monitor and encourage the application of best practices in equity and diversity in the posting and advertising, in the search and interview process, and in the making of hiring recommendations.
3. **General Search Process Rules**
  - a. A new search committee will be assembled for each Senior Academic Administrator search.
  - b. The University will ensure that prior to the Committee commencing its work, Committee members are provided with training and orientation on best practices with respect to equity and diversity in recruitment and search processes.
  - c. The Chair in consultation with the Search Committee will consider current best practices and

the advice of Human Resources professionals, and search consultants where applicable, in determining the appropriate level of openness of each search, and in the interests of ensuring the broadest and most qualified applicant pool.

- d. Senior Administrators and Program Chairs will have an opportunity to meet short-listed candidates in informal sessions at the appropriate stage of the search process. Others may be included for specific searches, at the recommendation of the Search Committee Chair in consultation with the Search Committee.
- e. In making a recommendation, to the Board in the case of Vice-Presidential searches, and to the President for all other searches, the Search Committee Chair will provide a fulsome report on the search process, deliberations, and rationale for the recommendation.

**4. Committee Composition**

<p><b><u>President</u> (or designate) for Academic Vice-Presidents (Provost, Research)</b></p> <p><b><u>Provost and Vice-President Academic</u> (or designate) for all other senior academic positions covered by these Procedures</b></p>	<p><b>Chair</b></p>	<p><b>1</b></p>
<p><b><u>Board Chair or Designate</u> for Academic Vice-President searches only</b></p>	<p><b>Designate must be an external (Order in Council) Board Member</b></p>	<p><b>0-1</b></p>
<p><b><u>Two Vice, or Associate-Vice, Presidents</u> for Academic Vice-President searches</b></p> <p><b><u>One Vice, or Associate-Vice-President</u> for all other searches</b></p>	<p><b>Appointed by the Committee Chair (Academic &amp; Administrative Vice Presidents and Associate Vice-Presidents eligible)</b></p>	<p><b>1-2</b></p>
<p><b><u>Two Academic Deans</u> (for Academic Vice-Presidents and Academic Deans)</b></p> <p><b><u>One Academic Dean</u> for all other searches</b></p>	<p><b>Appointed by the Chair in consultation with the Academic Deans</b></p>	<p><b>1-2</b></p>
<p><b><u>One Senior Academic Director</u></b></p>	<p><b>Appointed by the Chair</b></p>	<p><b>1</b></p>



<p><b>Six Faculty Members with tenure or tenure-track appointments</b></p>	<p>Elected by Faculty Members in a manner that ensures representation from both Colleges – or representation from different Colleges in the event that there are more than two Colleges</p> <p>In a search for an Academic Vice-President at least one faculty member is to be a Research Chair or former Research Chair.</p> <p>*in the case of a search for a University Librarian, at least one member should be a faculty Librarian Member</p>	<p>6</p>
<p><b>One Staff Representative</b></p>	<p>One staff member appointed by the Chair from among all non-faculty employees who are not senior administrators. When searching for a University Librarian or a University Registrar, the staff representative should be drawn from those offices respectively.</p>	<p>1</p>
<p><b>Two students</b></p>	<p>Appointed or elected by the Undergraduate and Graduate Student Societies</p>	<p>2</p>
<p>Up to two additional members to address equity, diversity, gender balance, aboriginal or regional representation, and / or to address any other key areas of responsibility (for the position being recruited to) not otherwise covered by the Committee members appointed or selected above</p>	<p>Appointed by the Committee Chair in consultation with the Committee Members. If 1 additional member is added under this section, that appointee may be from <u>any</u> UNBC employee, governance or stakeholder group. If 2 additional members are added, at least 1 must be a faculty member.</p>	<p>0-2</p>
<p><b>NON-VOTING – RESOURCE MEMBERS: Director of Human Resources (or designate) +appropriate Human Resources support personnel, including someone with equity and diversity expertise and Search Consultants as applicable</b></p>	<p>Determined by the AVP People or by the Director of Human Resources</p>	

5. These Procedures are effective on approval of both the Board and Senate, and replace any previously approved Selection Procedures and Search Committee Terms of Reference for Senior Academic Administrators covered by these Procedures.

**From:** UNBC Provost <provost@unbc.ca>  
**Sent:** Thursday, January 5, 2023 11:40 AM  
**To:** FE@Lists.unbc.ca  
**Subject:** Updated Call for Nominations - Dean Faculty of Environment Search Committee

Dear Faculty,

Thank you for meeting with me yesterday. I appreciate hearing from all of you, and thank you to those who have subsequently emailed or otherwise communicated. I learned many new things over the last 24 hours.

We are all committed to ensuring that the next dean of the Faculty of Environment comes into their leadership position with a strong mandate from the faculty, demonstrated by the faculty's participation and confidence in the selection process.

We find ourselves in a position where the procedure available is outdated and more geared toward pan-institutional than faculty focused positions. A number of you have noted other limitations to the procedure, and I have committed to refreshing it as soon as possible, making good use of our current experiences.

I hear concerns about representation from all units within the Faculty, different scholarly perspectives, of all continuing employee groups, from outside the Faculty, of diversity including gender, racialized individuals, Indigenous individuals, and persons with disabilities, to name only the federally protected groups and acknowledging many other equity deserving and under-represented groups who should have voice in the process. The existing procedure provides some guidance on ensuring a fair and equitable process once the committee is comprised, including considering current best practices with respect to EDI in recruitment, interviews, and other process components. I have also heard concerns about a need for some swiftness in this process, as the Faculty seeks enduring leadership stability with as little negative external exposure as possible. For this reason, I am attempting to expedite the process without compromising quality.

Our first hurdle is to strike a committee that addresses as much of the feedback received as possible.

I agree that the Call for Nominations previously developed to bridge the structural gap from colleges to faculties is restrictive, particularly in the context of a dean selection, and, as an ad-hoc procedure, it can be set aside.

Instead I propose the following:

*Focusing on this excerpt of the existing procedure: Six faculty members with tenure or tenure-track appointments: Elected by Faculty Members in a manner that ensures representation from both Colleges - or representation from different Colleges in the event that there are more than two Colleges.*

I invite members of the Faculty of Environment to submit nominations that reflect the diversity of the Faculty and of the University. Members of the Faculty of Environment can also nominate members of other Faculties who can contribute to the selection of the dean. Voting for these 6 committee members will be restricted to the Faculty of Environment. The committee cannot solely comprise only members of one Faculty, and this will be a consideration for the overall committee.

Nominators should attend to all aspects of diversity including gender, racialized individuals, Indigenous individuals, and persons with disabilities as they make their nominations.

Should more than six nominations be received, a Faculty-wide vote will be conducted. In the event an election is required, the relevant affiliations of the nominees will be noted to enable voters to consider the desired diversity. In the event that fewer than six nominations are received, further nominations will be invited until the slots are filled. In the event there is *insufficient* diversity among nominees, further nominations will be sought until a minimum level of Faculty representation is observed, and then an election will be conducted.

The procedure allows for two additional members to be added to address EDI or other representation gaps. These two positions should be reserved for this purpose once the committee has been comprised.

However, the Faculty has been clear that it would like to include a continuing SLI or SI member. In the interests of inclusion and fairness, and this being a clear gap in the committee composition, the committee should be *expanded* to include this *additional* member. Members of the Faculty of Environment should, therefore, also nominate a Senior Laboratory Instructor or Senior Instructor in a continuing appointment. An election will be conducted to select an SLI or SI member if several nominations are received.

***In summary*** - in order to proceed with striking a representative committee appropriate for this specific search and position: Dean, Faculty of Environment, I propose the following nominations, with nominations and subsequent elections restricted to the Faculty of Environment:

6 tenure track or tenured Faculty members who may come from within FoE or another faculty.  
1 SLI or SI member

Please attend to diversity of faculty unit, scholarly area, federally protected groups, other equity deserving and/or under represented members of the University community. Self-nominations are welcome. Nominators should show nominees have accepted the nominations.

**Please submit your self- or other nominations, clearly indicating acceptance of the nomination if it is for another person, to Ms. Shelley Bryant by Jan 11, 2023.**

Following this nomination and election process, the rest of the committee can be appointed to ensure broad diversity and representation across the university are achieved.

I hope to see your support during the process to develop a recruitment and selection policy and revisions to procedure that will be coming forward as soon as is practicable.

Once again, thank you for your participation and your commitment to the Faculty and the University.

Sincerely,

Wendy

Wendy M. Rodgers, PhD  
Vice President Academic and Provost  
University of Northern BC

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the Joint Major in Computer Science and Physics Program Requirements on pages 80 and 81 of the PDF 2022/23 undergraduate calendar be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The changes in degree requirements for the Joint Major in Computer Science and Physics are primarily meant to accommodate upcoming changes (submitted in separate motions) affecting PHYS and MATH courses and degree requirements.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

### Joint Major in Computer Science and Physics (BSc)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Computer Science and Physics is 127 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

### Program Requirements

#### Literacy Requirement

One of the following:

ENGL 170-3	Writing and Communication Skills
ENGL 270-3	Expository Writing

#### Lower-Division Requirement

CPSC 100-4	Computer Programming I
CPSC 101-4	Computer Programming II
CPSC 141-3	Discrete Computational Mathematics
CPSC 200-3	Algorithm Analysis and Development
CPSC 231-4	Computer Organization and Architecture
CPSC 242-3	Mathematical Topics for Computer Science
CPSC 281-3	Data Structures I

MATH 100-3 Calculus I  
MATH 101-3 Calculus II  
MATH 200-3 Calculus III  
MATH 220-3 Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
PHYS 110-4 Introductory Physics I: Mechanics  
PHYS 111-4 Introductory Physics II: Waves and Electricity  
PHYS 200-3 Thermal Physics  
PHYS 202-4 Electromagnetism and Optics  
PHYS 205-3 Modern Physics I

### Upper-Division Requirement

CPSC 320-3 Programming Languages  
CPSC 321-3 Operating Systems  
CPSC 370-3 Functional and Logic Programming

\*Six credit hours of 300 or 400 level Computer Science; and  
Six credit hours of 400 level Computer Science (excluding  
seminar, project, and special topics courses).

MATH 336-3 Intermediate Differential Equations  
MATH 335-3 Numerical Analysis I  
STAT 371-3 Probability and Statistics for Scientists and Engineers  
PHYS 300-3 Classical Mechanics  
PHYS 302-3 Quantum Mechanics I  
PHYS 305-4 Electronics [which must be taken before CPSC 231-4 (Computer  
Organization and Architecture)]  
PHYS 404-3 Solid State Physics

\*Three credit hours of 300 or 400 level Physics; and  
Six credit hours of 400-level Physics (excluding seminar,  
project, and special topics courses).

\*Three of these nine credit hours must be at the 400 level so that  
a minimum of 15 credit hours of 400 level Computer Science and  
Physics are completed.

### Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours including  
any additional credits necessary to meet the Academic Breadth requirement of the University (see  
Academic Regulation 15).

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

## Joint Major in Computer Science and Physics (BSc)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Computer  
Science and Physics is 127 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

## Program Requirements

### Literacy Requirement

One of the following:

~~ENGL 170-3~~ ~~Writing and Communication Skills~~

~~ENGL 270-3~~ ~~Expository Writing~~

### Lower-Division Requirement

CPSC 100-4 Computer Programming I

CPSC 101-4 Computer Programming II

CPSC 141-3 Discrete Computational Mathematics

CPSC 200-3 Algorithm Analysis and Development

CPSC 231-4 Computer Organization and Architecture

~~CPSC 242-3 Mathematical Topics for Computer Science~~

CPSC 281-3 Data Structures I

ENGL 170-3 Writing and Communications Skills

or ENGL 270-3 Expository Writing

MATH 100-3 Calculus I

MATH 101-3 Calculus II

~~MATH 200-3 Calculus III~~

MATH 202-3 Multivariable Calculus I

MATH 204-3 Multivariable Calculus II

MATH 220-3 Linear Algebra

MATH 230-3 Linear Differential Equations and Boundary Value Problems

PHYS 110-4 Introductory Physics I: Mechanics

PHYS 111-4 Introductory Physics II: Waves and Electricity

PHYS 200-3 Thermal Physics

PHYS 202-4 Electromagnetism and Optics

PHYS 205-3 Modern Physics I

PHYS 206-4 Modern Physics II

### Upper-Division Requirement

CPSC 320-3 Programming Languages

CPSC 321-3 Operating Systems

CPSC 370-3 Functional and Logic Programming

~~\*Six credit hours of 300 or 400 level Computer Science, and~~

~~Six credit hours of 400 level Computer Science~~

Twelve additional credit hours of upper-level Computer Science,

of which at least six must be at the 400 level (excluding seminar, project, and special topics courses).

~~MATH 335-3 Numerical Analysis I~~  
~~MATH 336-3 Intermediate Differential Equations~~  
~~MATH 335-3 Numerical Analysis I~~  
~~STAT 371-3 Probability and Statistics for Scientists and Engineers~~  
PHYS 300-3 Classical Mechanics  
PHYS 302-3 Quantum Mechanics I  
PHYS 305-4 Electronics [which must be taken before CPSC 231-4  
(Computer Organization and Architecture)]  
PHYS 404-3 Solid State Physics

~~\*Three credit hours of 300 or 400 level Physics; and~~  
~~Six credit hours of 400 level Physics~~

Nine additional credit hours of upper-level Physics,  
of which at least six must be at the 400 level (excluding seminar, project, and special topics courses).

~~\*Three of these nine credit hours must be at the 400 level so that~~  
~~a minimum of 15 credit hours of 400 level Computer Science and~~  
~~Physics are completed.~~

### **Elective and Academic Breadth**

Elective credit hours must be taken as necessary to ensure completion of a minimum of 127 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

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

**Program / Academic / Administrative Unit:** Computer Sciences & Physics

**College:** Faculty of Science and Engineering

**College Council Motion Number:** FSE FC 2022: 22:21:03

**College Council Approval Date:** November 24, 2022

**Senate Committee on First Nations and Aboriginal Peoples Motion Number:** not applicable

**Senate Committee on First Nations and Aboriginal Peoples Meeting Date:** not applicable

#### **7. Other Information**

**Attachment Pages:**  0  pages

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

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF

**Moved by:** Whitcombe

**Seconded by:**

**Committee Decision:** Approved

**Approved by SCAAF:** January 11, 2023

**Date**



**Chair's Signature**

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



**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the Joint Major in Chemistry and Physics Program Requirements on page 76 of the PDF 2022/23 undergraduate calendar be approved as proposed.

1. **Effective date:** September 2023
2. **Rationale for the proposed revisions:** The changes in degree requirements for the Joint Major in Chemistry and Physics are primarily meant to accommodate upcoming changes (submitted in separate motions) affecting PHYS and MATH courses and degree requirements.
3. **Implications of the changes for other programs, etc., if applicable:** None
4. **Reproduction of current Calendar entry for the item to be revised:**

**Joint Major in Chemistry and Physics (BSc)**

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Physics is 126 credit hours.

**Program Requirements**  
**Lower-Division Requirement**

CHEM 100-3 General Chemistry I  
CHEM 101-3 General Chemistry II  
CHEM 120-1 General Chemistry Lab I  
CHEM 121-1 General Chemistry Lab II  
CHEM 200-3 Physical Chemistry I  
CHEM 201-3 Organic Chemistry I  
CHEM 202-3 Inorganic Chemistry I  
CHEM 203-3 Organic Chemistry II  
CHEM 210-3 Analytical Chemistry I  
CPSC 100-4 Computer Programming I  
MATH 100-3 Calculus I  
MATH 101-3 Calculus II  
MATH 200-3 Calculus III  
MATH 220-3 Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
PHYS 110-4 Introductory Physics I: Mechanics  
PHYS 111-4 Introductory Physics II: Waves and Electricity  
PHYS 200-3 Thermal Physics  
PHYS 202-4 Electromagnetism and Optics  
PHYS 205-3 Modern Physics I

## Upper-Division Requirement

CHEM 300-3 Physical Chemistry II  
or CHEM 305-3 Physical Chemistry III  
CHEM 310-3 Analytical Chemistry II  
CHEM 320-3 Inorganic Chemistry II  
or CHEM 321-3 Inorganic Chemistry III  
CHEM 315-3 Physical Chemistry Lab

Six credit hours of 300- or 400-level Chemistry\* and  
Six credit hours of 400-level Chemistry\*

\*Up to 6 credit hours from BCMB 306-3, BCMB 308-3, BCMB 330-3,  
BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, or BCMB 405-3  
may be used to satisfy these upper-division Chemistry requirements.

MATH 336-3 Intermediate Differential Equations  
PHYS 300-3 Classical Mechanics  
PHYS 302-3 Quantum Mechanics I  
PHYS 351-3 Optics and Photonics I  
PHYS 404-3 Solid State Physics

Three credit hours of 300- or 400-level Physics and six credit hours  
of 400-level Physics

## Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

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

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Physics is 126 credit hours.

## Program Requirements

### Lower-Division Requirement

CHEM 100-3 General Chemistry I  
CHEM 101-3 General Chemistry II  
CHEM 120-1 General Chemistry Lab I  
CHEM 121-1 General Chemistry Lab II  
CHEM 200-3 Physical Chemistry I  
CHEM 201-3 Organic Chemistry I  
CHEM 202-3 Inorganic Chemistry I  
~~CHEM 203-3 Organic Chemistry II~~  
CHEM 210-3 Analytical Chemistry I  
CPSC 100-4 Computer Programming I  
MATH 100-3 Calculus I  
MATH 101-3 Calculus II  
~~MATH 200-3 Calculus III~~

MATH 202-3 Multivariable Calculus I  
MATH 204-3 Multivariable Calculus II  
MATH 220-3 Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
PHYS 110-4 Introductory Physics I: Mechanics  
PHYS 111-4 Introductory Physics II: Waves and Electricity  
PHYS 200-3 Thermal Physics  
PHYS 202-4 Electromagnetism and Optics  
PHYS 205-3 Modern Physics I  
PHYS 206-4 Modern Physics II

### Upper-Division Requirement

CHEM 300-3 Physical Chemistry II  
or CHEM 305-3 Physical Chemistry III  
CHEM 310-3 Analytical Chemistry II  
CHEM 315-3 Physical Chemistry Lab  
CHEM 320-3 Inorganic Chemistry II  
or CHEM 321-3 Inorganic Chemistry III  
~~CHEM 315-3 Physical Chemistry Lab~~

Six credit hours of 300- or 400-level Chemistry\* and  
Six credit hours of 400-level Chemistry\*

\*Up to 6 credit hours from BCMB 306-3, BCMB 308-3, BCMB 330-3,  
BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, or BCMB 405-3  
may be used to satisfy these upper-division Chemistry requirements.

MATH 336-3 Intermediate Differential Equations  
PHYS 300-3 Classical Mechanics  
PHYS 302-3 Quantum Mechanics I  
PHYS 351-3 Optics and Photonics I  
PHYS 404-3 Solid State Physics

Three credit hours of 300- or 400-level Physics and six credit hours  
of 400-level Physics

### Elective and Academic Breadth

Elective credit hours must be taken as necessary to ensure completion of a minimum of 126 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

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

**Program / Academic / Administrative Unit:** Chemistry & Physics

**College:** Faculty of Science and Engineering

**College Council Motion Number:** FSE FC 2022:11:21:04

**College Council Approval Date:** November 24, 2022

**Senate Committee on First Nations and Aboriginal Peoples Motion Number:** not applicable

**Senate Committee on First Nations and Aboriginal Peoples Meeting Date:** not applicable

**7. Other Information**

**Attachment Pages:**   0   pages

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

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF

**Moved by:** Whitcombe

**Seconded by:**

**Committee Decision:** Approved

**Approved by SCAAF:** January 11, 2023



**Date**

**Chair's Signature**

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

Motion Number (assigned by  
Steering Committee of Senate): S-202301.06

## SENATE COMMITTEE ON ACADEMIC AFFAIRS

### PROPOSED REVISION OF CALENDAR ENTRY

**Motion:** That the change(s) to the MA Project course description for FNST 797-15, on page 122 of the 2022/2023 graduate calendar, be approved as proposed.

1. **Effective date:** September 2023

2. **Rationale for the proposed revisions:**

Greater clarity of course description (including important information for students regarding committee composition)

3. **Implications of the changes for other programs, etc., if applicable:** N/A

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

The MA Project is a praxis-oriented community-based research option and will be considered an alternative to the Thesis for completion of the Master's Degree in First Nations Studies. A Project committee made up of the advisor from the First Nations program, one other faculty, and one First Nations community member guides the MA Project student. Students taking the Project path are required to produce a scholarly product to be presented in a scholarly form. Prerequisites: Students must have completed the required courses for the MA in First Nations Studies (FNST 600-3; FNST 602-3, FNST 790- 3; one elective course in the student's chosen stream; one elective from graduate offerings at UNBC; and one elective from either the First Nations Issues and Approaches stream or from the Northern Nations stream)

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

The MA Project is a praxis-oriented community-based research option and ~~will be~~ is considered an alternative to the Thesis for completion of the Master's Degree in First Nations Studies. ~~A Project committee made up of the advisor from the First Nations program, one other faculty, and one First Nations community member guides the MA Project student.~~ Students projects may include, but are not limited to, taking the Project path are required to produce a scholarly product to be presented in a scholarly form that may include (and is not limited to) artistic expressions, films, creative writing, or digital Indigenous-related media initiatives, based on comprehensive research. All projects must be accompanied by a paper that describes the project including the methodological principles and theory in project development, as well as community-related consultations and considerations. Normally, students are expected to complete the required coursework in the first two semesters of the Graduate Studies Program.

~~Prerequisites: None. Students must have completed the required courses for the MA in First Nations Studies (FNST 600-3, FNST 602-3, FNST 790-3; one elective course in the student's chosen stream; one elective from graduate offerings at UNBC; and one elective from either the First Nations Issues and Approaches stream or from the Northern Nations stream)~~

6. **Authorization:**

**SCCC Review Date:** May 30, 2022

**Program / Academic / Administrative Unit:** Department of First Nations Studies

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

**Faculty Council Motion Number:** FISSSHFC.2022.09.15.04

**Faculty Council Approval Date:** September 15, 2022

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

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

7. **Other Information**

**Attachment Pages:**   0   pages

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

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF

**Moved by:** Whitcombe

**Seconded by:**

**Committee Decision:** Approved

**Approved by SCAAF:** January 11, 2023  
**Date**

  
\_\_\_\_\_  
**Chair's Signature**

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

Motion Number (assigned by  
Steering Committee of Senate): S-202301.07

**SENATE COMMITTEE ON ACADEMIC AFFAIRS**

**PROPOSED REVISION OF CALENDAR ENTRY**

**Motion:** That the change(s) to the Graduate Thesis course description for FNST 799-15, on page 122 of the 2022/2023 graduate calendar, be approved as proposed.

1. **Effective date:** September 2023

2. **Rationale for the proposed revisions:**

Greater clarity of course description (including important information for students regarding committee composition)

3. **Implications of the changes for other programs, etc., if applicable:** N/A

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

Currently, no calendar description for FNST 799-15 Graduate Thesis exists

5. **Proposed revision with changes underlined and deletions indicated clearly using “~~strikethrough~~”:**  
The thesis requires that each student undertakes a study that represents original, respectful, and relevant Indigenous-related research (including appropriate analysis and recommendations). Normally, students will have completed the required coursework in the first two semesters of the Graduate Studies program.

Prerequisites: None.

6. **Authorization:**

**SCCC Review Date:** May 30, 2022

**Program / Academic / Administrative Unit:** Department of First Nations Studies

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

**Faculty Council Motion Number:** FISSSHFC.2022.09.15.05

**Faculty Council Approval Date:** September 15, 2022

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

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

7. **Other Information**

Attachment Pages:  0  pages

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

**Brief Summary of Committee Debate:**

**Motion No.:** SCAAF

**Moved by:** Neufeld

**Seconded by:**

**Committee Decision:** Approved

**Approved by SCAAF:**  January 11, 2023   
Date

  
Chair's Signature

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





Motion Number (assigned by SCS): \_\_\_\_\_

**SENATE COMMITTEE ON SCHOLARSHIPS AND BURSARIES (SCSB)**

**PROPOSED MOTION**

**Motion:** That the revised Terms and Conditions for the BC Hydro Environmental Studies Award be approved.

**Rationale:** To revise the BC Hydro Environmental Studies Award commencing the 2023-2024 Academic Year.

**Proposed By:** Carolyn Chrobot, Development Officer – Community Engagement

**Research & Innovation Contact:** Carolyn Chrobot, Development Officer – Community Engagement

**Faculty/Academic Department:** N/A

**Indigenous Content:** No (Determined by the Development Officer)

**Date to SCSB:** November 14, 2022

**TO BE COMPLETED AFTER SCSB MEETING**

**Brief Summary of Committee Debate:** .

**Motion No.:** SCSB20221123.05

**Moved by:** Palmer

**Seconded by:** Hanlon

**Committee Decision:** CARRIED

**Attachments:** 2 Pages

**Approved by SCSB:**

**Date** November 23, 2022

**Chair's Signature** 

**For Information of Senate & Board**

## **AWARDS GUIDE INFORMATION:**

**Award Category:** In-Course

**Award Name:** BC Hydro Environmental Studies ~~Bursary~~Award

**Awards Guide Description/Intent:** BC Hydro is proud to support UNBC students in their commitment to the pursuit of post-secondary education. As part of their community outreach programs, BC Hydro focuses on the key areas of global environmental change and energy conservation.

**Donor:** BC Hydro

**Value:** \$2,000

**Number:** Three

**Award Type:** ~~Bursary~~Award

**Eligibility:** Available to a full-time undergraduate students with a declared major in Environmental and Sustainability Studies who is a. ~~Available only to students who are~~ residents of northern British Columbia. First preference will be given to ~~go to~~ a student with a minor in Global Environmental Change or an interest in energy conservation or environmental best practices.

**Criteria:** Satisfactory academic standing ~~and a demonstrated interest in energy conservation or environmental best practices.~~

**Application Instructions:** ~~Complete the Awards Application form and submit a statement of interest in energy conservation or environmental best practices via awards@unbc.ca.~~

**Effective Date:** Established 2008, revised 2022.

**Recipient Selection:** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office.



Motion Number (assigned by SCS): \_\_\_\_\_

**SENATE COMMITTEE ON SCHOLARSHIPS AND BURSARIES (SCSB)**

**PROPOSED MOTION**

**Motion:** That the new Terms and Conditions for the Sodexo Canada Award for Students with a Disability be approved.

**Rationale:** To activate the Sodexo Canada Award for Students with a Disability commencing the 2023-2024 Academic Year.

**Proposed By:** Carolyn Chrobot, Development Officer – Community Engagement

**Research & Innovation Contact:** Carolyn Chrobot, Development Officer – Community Engagement

**Faculty/Academic Department:** N/A

**Indigenous Content:** No (Determined by the Development Officer)

**Date to SCSB:** November 14, 2022

**TO BE COMPLETED AFTER SCSB MEETING**

**Brief Summary of Committee Debate:** .

**Motion No.:** SCSB20221123.03

**Moved by:** Palmer

**Seconded by:** Zogas

**Committee Decision:** CARRIED

**Attachments:** 2 Pages

**Approved by SCSB:**

**Date** November 23, 2022

**Chair's Signature** 

**For Information of Senate & Board**

**AWARDS GUIDE INFORMATION:**

**Award Category:** General

**Award Name:** Sodexo Canada Award for Students with a Disability

**Awards Guide Description/Intent:** Diversity is Sodexo's business imperative; ethical and social responsibilities are grounded in its core values. In its continuous effort to attain an inclusive organization and to better serve their clients & community, Sodexo is committed to embracing, supporting, and respecting the diversity of the communities it serves. Our goal is to increase awareness and acceptance of people with disabilities through education and promotion of their talents in the workplace and community. In keeping with that, Sodexo is fully committed in providing opportunities for students with disabilities to reach their full potential.

**Donor:** Sodexo Canada

**Value:** \$1,000

**Number:** One in each 2023/24, 2024/25, 2025/26, 2026/27 and 2027/28

**Award Type:** Award

**Eligibility:** Available to a full-time or part-time undergraduate student with a documented disability.

**Criteria:** satisfactory academic standing

**Effective Date:** Established 2022

**Recipient Selection:** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office.



Motion Number (assigned by SCS): \_\_\_\_\_

**SENATE COMMITTEE ON SCHOLARSHIPS AND BURSARIES (SCSB)**

**PROPOSED MOTION**

**Motion:** That the new Terms and Conditions for the Sodexo Canada Indigenous Award be approved.

**Rationale:** To activate the Sodexo Canada Indigenous Award commencing the 2023-2024 Academic Year.

**Proposed By:** Carolyn Chrobot, Development Officer – Community Engagement

**Research & Innovation Contact:** Carolyn Chrobot, Development Officer – Community Engagement

**Faculty/Academic Department:** N/A

**Indigenous Content:** Yes (Determined by the Development Officer)

**Date to SCSB:** Nov 14, 2022

**\*SCII Vetting Process: (Section to be completed by SCII Committee Recording Secretary)**

SCII Motion Number:

SCII Meeting Date:

SCII Brief Summary of Committee Discussion:

**TO BE COMPLETED AFTER SCSB MEETING**

**Brief Summary of Committee Debate:** .

**Motion No.:** SCSB20221123.04

**Moved by:** Palmer

**Seconded by:** Bankole

**Committee Decision:** CARRIED

**Attachments:** 2 Pages

**Approved by SCSB:**

**Date** November 23, 2022

**Chair's Signature** 

**For Information of Senate & Board**

**AWARDS GUIDE INFORMATION:**

**Award Category:** General

**Award Name:** Sodexo Canada Indigenous Award

**Awards Guide Description/Intent:** Diversity is Sodexo's business imperative; ethical and social responsibilities are grounded in its core values. In its continuous effort to attain an inclusive organization and to better serve their clients & community, Sodexo is committed to embracing, supporting, and respecting the diversity of the communities it serves. Sodexo continues to be PAR certified, year after year, at the Gold level, by the Canadian Council for Aboriginal Business. In keeping with that, Sodexo is fully committed to providing opportunities for Indigenous students to reach their full potential.

**Donor:** Sodexo Canada

**Value:** \$1,500

**Number:** One in each 2023/24, 2024/25, 2025/26, 2026/27 and 2027/28

**Award Type:** Award

**Eligibility:** Available to a full-time or part-time undergraduate student who self-identifies as Indigenous.

**Criteria:** satisfactory academic standing

**Effective Date:** Established 2022

**Recipient Selection:** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office.



Motion Number (assigned by SCS): \_\_\_\_\_

**SENATE COMMITTEE ON SCHOLARSHIPS AND BURSARIES (SCSB)**

**PROPOSED MOTION**

**Motion:** That the revised Terms and Conditions for the Spike Kendy Bursary be approved on the condition that SCII reviews and approves the revisions.

**Rationale:** To revise the Spike Kendy Bursary commencing the 2022-2023 Academic Year.

**Proposed By:** Tara Mayes, Development Officer – Donor Relations

**Research & Innovation Contact:** Tara Mayes, Development Officer – Donor Relations

**Faculty/Academic Department:** N/A

**Indigenous Content:** Yes (Determined by the Development Officer)

**Date to SCSB:** September 14, 2022

**\*SCII Vetting Process: (Section to be completed by SCII Committee Recording Secretary)**

SCII Motion Number:

SCII Meeting Date:

SCII Brief Summary of Committee Discussion:

**TO BE COMPLETED AFTER SCSB MEETING**

**Brief Summary of Committee Debate:** .

**Motion No.:** SCSB20220928.11

**Moved by:** Mayes

**Seconded by:** Hanlon

**Committee Decision:** CARRIED

**Attachments:** 2 pages

**Approved by SCSB:** September 28, 2022

**Date**

**Chair's Signature**

**For Information of Senate & Board**

**AWARDS GUIDE INFORMATION:**

**Award Category:** General

**Award Name:** Spike Kendy Award

**Awards Guide Description/Intent:** Spike (Michael) Kendy worked for the Department of Indian Affairs and Northern Development Canada for many years. During the 1970's he worked closely with the people of the Tsilhqot'in and Secwépmeč Nations. He admired their courage, humour and resilience in the face of adversity. This bursary is meant to honour the spirit of these peoples by supporting educational success in the generations that follow.

**Donor:** Nan Kendy and family

**Value:** \$1,500

**Number:** One

**Award Type:** Award

**Eligibility:** Available to a full time undergraduate student who identifies as a member of the Tsilhqot'in or Secwépmeč Nations. If there are no eligible applicants, the award will be opened to a graduate student who identifies as Secwépmeč and is enrolled in the Education Program.

**Criteria:** Satisfactory academic standing

**Effective Date:** Established 2019, revised 2022

**Recipient Selection:** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office