UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

# SENATE MEETING
# PUBLIC SESSION
# MINUTES

January 24, 2018
3:30 – 5:30 PM
Senate Chambers (Room 1079 Charles J McCaffray Hall)

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**Present:** B. Annear (Secretary of Senate), S. Barton, S. Beeler, M. Bouchard, D. Casperson, R. Chowdhury, M. Dale, H. Empey, M. Erickson, I. Hartley, L. Haslett, K. Hirsh-Pearson, S. Horianopoulos, A. Horvath, K. Howitt (Recording Secretary), N. Huynh, P. Jackson, E. Jensen, A. Larsen, M. Mandy, H. Massingham, B. Menounos, M. Murphy, A. Oguntola, A. Palmer, G. Payne, M. Peterson, M. Prevost, T. Ritchie, L. Roodenburg, D. Ryan, A. Saenz, E. Searle (Vice Chair), B. Schorcht, T. Summerville T. Tannert, D. Wessell Lightfoot, C. Whalen

**Regrets:**
L. Dohler, L. Handfield, J. Moore, R. Robinson, A. Stroet, D. Weeks (Chair), R. Wheate, T. Whitcombe

**Absent:**
B. Deo, G. Nixon, D. Nyce

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The meeting commenced at 3:30 p.m. The Vice Chair was in the Chair.

**1.0 Acknowledgement of Territory**

The Chair acknowledged the Senate meeting was taking place on the traditional unceded territory of the Lheidli T'enneh Nation.

The Chair welcomed new Student Senator, Mr. Aron Horvath and the Faculty Association President, Dr. Stephen Rader to their first Senate meeting

**2.0 S-201801.01**
**Approval of the Agenda**
Horianopoulos
That the agenda for the January 24, 2018 Public Session of Senate be approved as presented.
CARRIED

**3.0 S-201801.02**
**Approval of Senate Minutes**
Murphy
That the minutes of the November 22, 2017 Public Session of Senate be approved as presented.
CARRIED

**4.0 Business Arising from Previous Minutes of Senate**

None

**5.0 President's Report**

None

**6.0 Report of the Provost** **Dr. Ryan**

The Provost reported that the Provincial Government announced funding for 35 Civil Engineering seats and 35 Civil Engineering seats at UNBC with a first intake date of fall of 2019.

The Dean of Regional Programs asked how the seats in the Environmental Engineering Program would affect the relationship with UBC and the Environmental Engineering seats UNBC currently shares with them.

The Provost clarified that the funding announced is for a stand-alone UNBC Environmental Engineering Program. UNBC and UBC will continue to offer the joint program.

The Chair asked whether engineering students will have to indicate which track they are applying to in their first year.

The Provost noted that while those details have not been worked-out yet, the expectation is that students will apply to either the joint UBC/UNBC Environmental Engineering Program, UNBC Environmental Engineering Program, or the UNBC Civil Engineering Program.

A Senator asked if a Co-op Program will be incorporated.

The Provost replied that the funding request included Co-op and an industry liaison position to support the development of Co-op opportunities. Whether Co-Op should be mandatory or optional has not yet been determined.

The Co-Acting Librarian asked if there was funding for a Librarian for the Engineering Program.

The Provost noted that UNBC has not yet received the funding letter from the Ministry, so he could not confirm whether or not it will include funding for a Librarian.

Domestic student enrollment was up 2.8–3.0 % FTEs and International student enrollment was up 29% FTEs in the 2018 Winter Semester. The final Winter Semester numbers will be known after the add/drop date. Applications for the Fall 2018 Semester were up 9.6% and admissions were down about 8% compared to the same time last year. Registration opens in April.

A Budget Town Hall will take place near the end of February.

The Provost's Advisory Committee on the Academic Plan is being populated and the first meeting will be held in early February.

Dr. Schorcht will be leaving her role as the DEAN of CASHS and returning as a faculty member. The Provost thanked her for all her work. There will be an announcement made soon about how the University will move forward with filling the Dean's position.

A Senator commented on a recent report in the media that UNBC was not doing well in terms of graduation rates. She asked whether there would be an institutional response.

The Provost replied there would not necessarily be a response prepared. UNBC's graduation rate is approximately 55%. The rate is low, in part due to retention rates of first and second year students. Once students have passed through their first or second year, the actual retention and graduation rates of the remaining students is very good. There has been discussion with the Enrollment Task Force about how to help students succeed during their first and second year at the University.

**7.0 Report of the Registrar** **Mr. Annear**

The Registrar stated the first call for nominations for faculty and student positions on Senate closed on at 4:00 p.m. on January 22, 2018. Candidates' eligibility to run for election to Senate is being confirmed. An announcement will be made soon about the outcome of the elections.

The Registrar reported on an issue related to courses not being offered that were in the University's scheduling package. He noted that Courses must be disabled if they are not being offered. There were a number of courses with 0 enrollment that have not been cancelled. The Office of the Registrar will be contacting Programs regarding those courses.

The Registrar has been asked to put students into classes after the add/drop deadline by some programs. The Registrar will be asking programs that make this request if they feel students can succeed after missing three weeks of classes.

The Registrar also noted a concern that some students have been asked to move their labs or tutorials without changing their registration. The Registrar needs to know if students are being moved.

Students not registered in courses have asked the Registrar's Office for course grades. These students were given the opportunity to do all of the course work within the course but were not registered. The Registrar asked Faculty to please ensure the students they are working with in the classrooms are registered students.

The calendar updates for the post-secondary admission and transfer credit provisions have been discussed at the College Councils. They will be moving forward to the SCCC and SCAD in February.

There is no longer a Deputy Registrar position in the Office of the Registrar. The Registrar asked that enquiries sent previously to the Deputy Registrar now be sent to him.

## 8.0 Questions

There were no written questions submitted in advance.

A Senator wanted to know how to determine what Universities were being referred to in the University abbreviations listed beside faculty members' credentials in the academic calendars.

The Registrar did not have that information.

**Action item:** The Registrar will review how the University abbreviations listed beside faculty members' credentials in the academic calendars are determined and report back to Senate.

A Senator asked for an update on the Vice President, Research and Graduate Programs search.

The Provost noted that while he is not chairing that Committee, he could provide some updates: There were a number of applications and the search committee met recently. The Committee had narrowed its focus to a few individuals and there may be some announcements coming out soon.

A Senator asked if the Vice President, Research and Graduate Programs search would be opened or closed.

The Provost replied that the Chair of the search committee would have to respond to that matter.

A Senator asked whether the terms of the Graduate Programs Leads had been extended to March 31, 2018.

The Vice President, Research and Graduate Programs replied that the initial end date for the Graduate Program Leads had been the end of the December 2017; however in working with the Provost and Academic Planning, the University was not ready with a new structure, so the terms had been extended to March 31, 2018.

A Senator referred to discussion about making the UNBC financial statements map-able onto the University budget. He wanted to know when this may come to fruition.

The Vice President, Finance and Business Operations stated the University is getting closer to achieving this. They have been testing some of this with SCUB to ensure it is understandable. It is the Vice President's goal to put together a document that could be explained in thirty minutes and be able to work between the financial statements and budget. There are a lot of differences in how the Province has the University account for things and how most Universities use Fund Accounting to actually manage their finances. The Vice President hopes something will be in place by 2019.

A Senator raised the issue of classroom design. There are classrooms in the University where it is not possible to use all of the available equipment due to where it is located in the rooms.

There are issues with the outdated chairs and tables, tables that do not pull apart, and a lack of space for students to be able to use their computers and notebooks appropriately. There are not enough places to plug in devices in the classrooms.

The Provost noted that issues like these can be brought to the Teaching Space Optimization Committee. The committee has a modest budget to deal with relatively small items, and they work closely with facilities on bigger items.

The Dean of CSAM stated the committee has been looking at some of these concerns. He stated the committee may be able to consider specific concerns about a particular room or teaching space. The committee has also been discussing the replacement of the chairs and tables in some of the classrooms since they are reaching the end of life. The committee has been discussing what they think the new model should be for student stations in the classrooms.

The committee does not have a lot of funds at its disposal but can make recommendations to the Provost's Office.

There was a general consensus among Senators that they would like the Chair of the Teaching Space Optimization Committee to attend a Senate meeting to discuss their concerns.

**Action item:** That the Chair of the Teaching Space Optimization Committee be invited to a Senate meeting to discuss what the committee is working on and to speak with Senators about their concerns about the University teaching spaces.

**9.0 Removal of Motions from the Consent Agenda** **Mr. Searle**

None

**10.0 Committee Reports**

**10.1 Senate Committee on Academic Affairs** **Dr. Ryan**

***"For Approval" Items:***

A summary of the revisions made to the degree structures in Ecosystem Science and Management was included in the meeting package for information.

**S-201801.03**
**Changes to Degree Names - BSc Natural Resources Management, Major in Forest Ecology and Management, and Major in Wildlife and Fisheries**
Hartley
That, on the recommendation of the Senate Committee on Academic Affairs, the changes to the degree names for the BSc Natural Resources Management, Major in Forest Ecology and Management, and Major in Wildlife and Fisheries on pages 158 and 162 in the 2016/2017 undergraduate calendar, be approved as proposed.
Effective date: September 2018
CARRIED

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]):

~~Natural Resources Management (BSc Program)~~
~~Kathy Lewis,~~
~~Professor and Chair~~
~~Annie Booth, Professor~~
~~Philip Burton, Professor~~
~~Mark Dale, Professor~~
~~Russell Dawson, Professor~~
~~Arthur Fredeen, Professor~~
~~Michael Gillingham, Professor~~
~~Ian Hartley, Professor~~

~~Dezene Huber, Professor~~
~~Chris Johnson, Professor~~
~~Staffan Lindgren, Professor~~
~~Hugues Massicotte, Professor~~
~~William McGill, Professor~~
~~Chris Opio, Professor~~
~~Ken Otter, Professor~~
~~Katherine Parker, Professor, and Ian McTaggart Cowan Muskwa Kechika Research Professor~~
~~Mark Shrimpton, Professor~~
~~Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology~~
~~Chair (Ecosystem Science and Management)~~
~~Scott Green, Associate Professor~~
~~Philip Mullins, Associate Professor~~
~~Paul Sanborn, Associate Professor~~
~~John Shultis, Associate Professor~~
~~Oscar Venter, Associate Professor, and Forest Renewal BC Endowed~~
~~Chair in Growth and Yield and Forest Valuations~~
~~Pamela Wright, Associate Professor~~
~~Allan Costello, Assistant Professor~~
~~Lisa Poirier,~~
~~Assistant Professor~~
~~Bryan Bogdanski, Adjunct Professor~~
~~Barbara Cade-Menun, Adjunct Professor~~
~~Alan Carroll, Adjunct Professor~~
~~John Clague, Adjunct Professor~~
~~Craig Delong, Adjunct Professor~~
~~Marten Geertsema, Adjunct Professor~~
~~Susan Grainger, Adjunct Professor~~
~~Sybille Haeussler, Adjunct Professor~~
~~Chris Hawkins, Adjunct Professor~~
~~Doug Heard, Adjunct Professor~~
~~George Iwama, Adjunct Professor~~
~~Michael Jull, Adjunct Professor~~
~~Pat Maher, Adjunct Professor~~
~~Ian Picketts, Adjunct Professor~~
~~Thomas Pypker, Adjunct Professor~~
~~Saphida Migabo,~~
~~Senior Lab Instructor~~
~~Roy Rea,~~
~~Senior Lab Instructor~~

~~Website: www.unbc.ca/forestry~~
~~Website: www.unbc.ca/outdoor-recreation-tourism-management~~
~~Website: www.unbc.ca/wildlife-fisheries~~

~~The Natural Resources Management program offers students an integrated resource management approach with specialization through majors in Forest Ecology and Management, Wildlife and Fisheries, and Outdoor Recreation and Conservation.~~

~~The recognition that management of any natural resource has implications for all other natural resources is a primary driving factor in the undergraduate curriculum for this degree program. Multiple and sustainable resource management is emphasized. The Forest Ecology and Management major is accredited by the Canadian Forestry Accreditation Board and meets certification requirements for the Association of BC Forest Professionals. Government, industry and private experts assist in course presentations. The University has two research forests (Aleza Lake Research Forest, John Prince Research Forest) available to students in this program.~~

~~Major~~ BSc in Forest Ecology and Management
Kathy Lewis, Professor and Chair
Annie Booth, Professor
Philip Burton, Professor

Mark Dale, Professor
Arthur Fredeen, Professor
Ian Hartley, Professor
Dezene Huber, Professor
Chris Johnson, Professor
Staffan Lindgren, Professor Emeritus
Hugues Massicotte, Professor
William McGill, Professor
Chris Opio, Professor
Ken Otter, Professor
Katherine Parker, Professor, and Ian McTaggart Cowan Muskwa Kechika Research Professor
Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)
Scott Green, Associate Professor
Brent Murray, Associate Professor
Paul Sanborn, Associate Professor
Oscar Venter, Associate Professor, and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations
Lisa Poirier, Assistant Professor
Jenia Blair, Senior Lab Instructor
Saphida Migabo,Senior Lab Instructor
Roy Rea,Senior Lab Instructor
Bryan Bogdanski, Adjunct Professor
Barbara Cade-Menun, Adjunct Professor
Alan Carroll, Adjunct Professor
Craig Delong, Adjunct Professor
Marten Geertsema, Adjunct Professor
Susan Grainger, Adjunct Professor
Sybille Haeussler, Adjunct Professor
Doug Heard, Adjunct Professor
Michael Jull, Adjunct Professor
Ian Picketts, Adjunct Professor
Thomas Pypker, Adjunct Professor

Website: www.unbc.ca/forestry
~~Website: www.unbc.ca/outdoor-recreation-tourism-management~~
~~Website: www.unbc.ca/wildlife-fisheries~~
The Forest Ecology and Management degree provides students with a thorough understanding of the science, philosophy, and practice of managing forested ecosystems. Through study and active learning experiences, students obtain a consistent and broad background in course work that encompasses foundational and integrative topics. Given the range of knowledge and expertise needed to effectively manage and conserve forested ecosystems, students are provided an opportunity to select a minor and pursue a specialisation consistent with the overall objectives of the degree. Although the degree is designed to expose students to contemporary knowledge and techniques drawn from a variety of disciplines in the natural and social sciences, students are encouraged to challenge conventional knowledge paradigms and approaches to forest management.The Forest Ecology and Management degree is accredited by the Canadian Forestry Accreditation Board and meets certification requirements for the Association of BC Forest Professionals. The University has two research forests (Aleza Lake Research Forest, John Prince Research Forest) available to students in this program.

Undergraduate students are required to take a total of 96 credit hours of program core courses in addition to a qualified minor as outlined below.

The minimum requirement for completion of a Bachelor of Science ~~with a major~~ in Forest Ecology and Management is 123 credit hours.

Program Requirements

[degree requirements text unchanged]

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in ~~any Natural Resource Management major~~ this degree.

[degree requirements text unchanged]

Minor requirement associated with the Forest Ecology and Management ~~major~~ degree

[minor requirement text unchanged]

## BSc Honours – Forest Ecology and Management

The Honours in Forest Ecology and Management offers students a higher level of education and research experience for proceeding to post graduate studies. Honours students are required to complete the degree requirements for the BSc ~~Natural Resources Management (~~ in Forest Ecology and Management ~~Major)~~. In addition, required hours of electives credits must be at the 300 or 400 level and each student must complete a 6 credit-hour research thesis under the supervision of a faculty member.

>>>>>>>>>>>>>>>>>>>

## BSc in Wildlife and Fisheries

Kathy Lewis,Professor and Chair
Annie Booth, Professor
Philip Burton, Professor
Mark Dale, Professor
Russell Dawson, Professor
Michael Gillingham, Professor
Dezene Huber, Professor
Chris Johnson, Professor
Staffan Lindgren, Professor Emeritus
Eduardo Martins, Assistant Professor
Hugues Massicotte, Professor
Bill McGill, Professor
Ken Otter, Professor
Katherine Parker, Professor, and Ian McTaggart Cowan Muskwa Kechika Research Professor
Mark Shrimpton, Professor
Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)
Scott Green, Associate Professor
Brent Murray, Associate Professor
Oscar Venter, Associate Professor, and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations
Lisa Poirier, Assistant Professor
Jenia Blair, Senior Lab Instructor
Saphida Migabo, Senior Lab Instructor
Roy Rea, Senior Lab Instructor
Susan Grainger, Adjunct Professor
Doug Heard, Adjunct Professor
Michael Jull, Adjunct Professor

~~Website: www.unbc.ca/forestry~~
~~Website: www.unbc.ca/outdoor-recreation-tourism-management~~
Website: www.unbc.ca/wildlife-fisheries

The BSc in Wildlife and Fisheries provides students with a solid foundation in wildlife and fisheries biology, with considerable indoor and outdoor laboratory experience. It exposes students to an integrated approach to resource issues that confront today's professionals. The combination of theoretical and applied ecology with practical labs and exercises in the Wildlife and Fisheries degree

gives students the background to pursue public- and private-sector employment in the wildlife or fisheries professions as well as post-graduate studies. Students completing all courses in the Wildlife and Fisheries degree meet the education requirements for eligibility as a Registered Professional Biologist (RPBio) in BC.

Undergraduate students are required to take 21 Biology and Natural Resources Management courses (65-66 credit hours). Of these, 14 courses must be at the upper division level. The minimum requirement for completion of a Bachelor of Science ~~with a major~~ in Wildlife and Fisheries is 123 credit hours.

Program Requirements

[degree requirements text unchanged]

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in ~~any Natural Resources Management major~~ this degree.

[degree requirements text unchanged]

## BSc Honours – Wildlife and Fisheries

The Honours in ~~Natural Resource Management (~~Wildlife and Fisheries~~)~~ recognizes ~~U~~undergraduate students who both excel at their studies and who complete ~~the~~ an ~~U~~undergraduate ~~T~~thesis (normally NRES 430).

To enter the Honours ~~p~~Program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum requirement ~~will~~ does not guarantee admission into the Honours ~~p~~Program, which will be at the discretion of the Ecosystem Science and Management Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours ~~p~~Program.

Honours students are required to complete the degree requirements for the BSc in ~~Natural Resources Management (~~Wildlife and Fisheries~~)~~. In addition, each student must also complete an additional 6 credit hours in the form of an undergraduate thesis (as part of their elective credits) under the supervision of a faculty member. Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students.

**S-201801.04**
**Approval of New Academic Program - BSc in Conservation Science and Practice**
Hartley
That, on the recommendation of the Senate Committee on Academic Affairs, the new BSc in Conservation Science and Practice be approved as proposed.
Proposed Start Date: September 2018
CARRIED

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]):

## Conservation Science and Practice (BSc Program)

Pending

Kathy Lewis, Professor and Chair
Annie Booth, Professor
Philip Burton, Professor
Che Elkin, Associate Professor

Arthur Fredeen, Professor
Dezene Huber, Professor
Kyrke Gaudreau, Assistant Professor
Michael Gillingham, Professor
Chris Johnson, Professor
Eduardo Martins, Assistant Professor
Farhad Moghimehfar, Assistant Professor
Phil Mullins, Associate Professor
Ken Otter, Professor
Katherine Parker, Professor, and Ian McTaggart Cowan Muskwa Kechika Research Professor
Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)
Scott Green, Associate Professor
Brent Murray, Associate Professor
Mark Shrimpton, Professor
John Shultis, Associate Professor
Oscar Venter, Associate Professor, and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations
Pamela Wright, Associate Professor
Roy Rea, Senior Lab Instructor
Ian Picketts, Adjunct Professor
Richard Shuster, Adjunct Professor

**General Calendar Description:** Ecological systems underpin human well-being in many ways from art and culture to food security. Conservation professionals work to ensure that ecosystems will continue to provide these values for future generations. However, we are facing an increasingly complex set of challenges as human populations and resource development increase and the global climate changes. Meeting these challenges requires an integration of human and ecological values across a broad range of ecosystems at increasingly larger spatial and temporal scales.
Students pursuing a BSc in Conservation Science and Practice focus on understanding and addressing the contemporary challenges facing the sustainable use and conservation of our environment. Navigating these challenges requires a strong scientific foundation, including the necessary appreciation for both the natural and human dimensions of conservation and management. This degree equips students with the knowledge to enter a solutions-based career that actively contributes to solving today's conservation and management problems. Our goal is to provide students with the philosophical foundation, scientific theory, and technical skills to address the challenge of maintaining the functioning of ecosystems across developed, developing and still wild landscapes.

The BSc in Conservation Science and Practice allows students to pursue one of two majors:

1. **Wildland Conservation and Recreation**
2. **Landscape Conservation and Management**

The major in **Wildland Conservation and Recreation** focuses on portions of the landscape where conservation values, including recreation and aesthetic values, are the priority land use activities, and where these activities intersect with other values, priorities, and uses. Topics of study include: the promotion of and advocacy for conservation; integrated management of legally designated parks and protected areas; conservation area design; and human activities across these areas, including recreation, ecotourism and the associated positive and negative impacts on ecological integrity. Students develop the skills necessary to identify, plan, monitor, and manage conservation values within the parks, recreation and tourism sectors.

The major in **Landscape Conservation and Management** focuses on natural and human-modified systems across broad spatial scales. The emphasis in this major is on integrated landscapes that support a wide variety of values and activities including the maintenance of biodiversity, the rights and practices of Indigenous Peoples, ecosystem services, and resource extraction. Courses in this major consider human activities across a range of ecological scales but with an emphasis on landscape and

ecosystem-level processes. Graduates from the major develop the skills to work with cutting-edge tools and data that are necessary for the planning and management of multiple values across space and time.

Both majors are premised on an interdisciplinary and multi-value perspective. The degree is focused on the natural sciences, and draws on ideas, theory and practice from the social sciences. This broad perspective recognizes that humans are part of socio-ecological systems; thus, the human dimensions of conservation, management and natural sciences are integral components of the curriculum.

**Curriculum:**

## Major in Wildland Conservation and Recreation

### Lower-Division Requirement

**100 Level**

| | |
|---|---|
| BIOL 103-3 | Introductory Biology I |
| BIOL 104-3 | Introductory Biology II |
| BIOL 123-1 | Introductory Biology I Laboratory |
| BIOL 124-1 | Introductory Biology II Laboratory |
| CHEM 100-3 | General Chemistry I |
| ENVS 101-3 | Introduction to Environmental Citizenship |
| FNST 100-3 | The Aboriginal Peoples of Canada |
| NREM 100-3* | Field Skills |
| ORTM 100-3 | Foundations of Outdoor Recreation and Tourism |

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in this major.

**200 Level**

| | |
|---|---|
| BIOL 201-3 | Ecology |
| FSTY 201-3 | Forest Plant Systems *or* BIOL 301-3 Systematic Botany |
| NREM 204-3 | Introduction to Wildlife and Fisheries |
| NREM 209-3 | The Practice of Conservation (*new course*) |
| ORTM 200-3 | Sustainable Recreation and Tourism |
| ORTM 205-3 | Outdoor Skills and Leadership |
| STAT 240-3 | Basic Statistics |

### Upper-Division Requirement

**300 Level**

| | |
|---|---|
| ENPL 304-3 | Mediation, Negotiation and Public Participation |
| or ENVS 326-3 | Natural Resources, Environmental Issues and Public Engagement |
| GEOG 300-3 | Geographic Information Systems |
| NREM 303-3 | Aboriginal Perspectives on Land and Resource Management |
| ORTM 305-3 | Protected Area Planning and Management |
| ORTM 300-3 | Recreation and Tourism Impacts |
| ORTM 332-3 | Outdoor, Environmental and Experiential Education |
| ORTM 333-3 | Field School |

**Two of:**

| | |
|---|---|
| BIOL 302-3 | Limnology |
| BIOL 304-3 | Plants, Society and the Environment |
| BIOL 307-3 | Ichthyology and Herpetology |

BIOL 308-3 Ornithology and Mammalogy
BIOL 318-3 Fungi and Lichens
BIOL 322-3 Entomology
BIOL 323-3 Evolutionary Biology
BIOL 333-3 Field School
BIOL 350-3 Ethnobotany
NREM 333-3 Field Applications in Resource Management

**400 Level**
BIOL 411-3 Conservation Biology
GEOG 413-3 Advanced GIS
**or** BIOL 325-3 Ecological Analysis
NREM 400-4 Natural Resources Planning
NREM 409-3 Conservation Planning (*new course*)
ORTM 400-3 Conservation Area Design and Management

**Two of:**
ORTM 306-3 Indigenous Tourism and Recreation
ORTM 403-3 International Dimensions of Resource Recreation and Tourism
ORTM 407-3 Recreation, Tourism and Communities
ORTM 408-3 The Psychology of Recreation and Tourism
ORTM 409-3 Critical Approaches to Outdoor Recreation Activities

**One of:**
BIOL 402-3 Aquatic Plants
BIOL 404-3 Plant Ecology
BIOL 406-3* Fish Ecology
BIOL 410-3* Population and Community Ecology
BIOL 412-3* Wildlife Ecology
BIOL 420-3* Animal Behaviour
BIOL 421-3 Insects, Fungi and Society

**One of**:
BIOL 409-3 Conservation of Aquatic Ecosystems (*new course*)
BIOL 413-3* Wildlife Management
BIOL 414-3* Fisheries Management
NREM 413-3 Agroforestry

*Prerequisites for these courses may be met by appropriate selection of courses in options listed in "Two of" and "One of" lists above.

**Elective Requirements**
Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## BSc Honours – Conservation Science and Practice (Wildland Conservation and Recreation)

The Honours in Conservation Science and Practice (Wildland Conservation and Recreation) offers students a higher level of education and substantial research experience for proceeding to post-graduate studies.

To enter the Honours Program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum requirement does not guarantee entry into the Honours Program, which will be at the discretion of the Conservation Science and Practice Curriculum Committee. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours Program.

Honours students are required to complete the degree requirements for the BSc Conservation Science and Practice (Wildland Conservation and Recreation). In addition, each student must also complete an additional 6 credit hours in the form of an undergraduate thesis (normally NRES 430-6) under the supervision of a faculty member. Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students.

## Major in Landscape Conservation and Management

### Lower-Division Requirement

**100 Level**

| | |
|---|---|
| BIOL 103-3 | Introductory Biology I |
| BIOL 104-3 | Introductory Biology II |
| BIOL 123-1 | Introductory Biology I Laboratory |
| BIOL 124-1 | Introductory Biology II Laboratory |
| CHEM 100-3 | General Chemistry I |
| ECON 100-3 | Microeconomics |
| ENVS 101-3 | Introduction to Environmental Citizenship |
| FNST 100-3 | The Aboriginal Peoples of Canada |
| MATH 152-3 | Calculus for Non-majors |
| NRES 100-3 | Communications in Natural Resources and Environmental Studies |
| NREM 101-3 | Introduction to Natural Resource Management and Conservation |

**200 Level**

| | |
|---|---|
| BIOL 201-3 | Ecology |
| ENSC 201-3 | Weather and Climate |
| ENVS 306-3 | Human Ecology |
| **or** ENVS 225-3 | Global Environmental Change: Science and Policy |
| FNST 249-3 | Aboriginal Resource Planning |
| NREM 204-3 | Introduction to Wildlife and Fisheries |
| NREM 209-3 | The Practice of Conservation (new course) |
| POLS 257-3 | Public Law in Canada |
| STAT 240-3 | Basic Statistics |

**300 Level**

| | |
|---|---|
| BIOL 325-3 | Ecological Analyses |
| ENPL 304-3 | Mediation, Negotiation & Public Participation |
| **or** ENVS 326-3 | Natural Resources, Environmental Issues and Public Engagement |
| ENSC 302-3 | Low Carbon Energy Development |
| **or** ECON 305-3 | Environmental Economics and Environmental Policy |
| GEOG 300-3 | Geographic Information Systems |
| NREM 303-3 | Aboriginal Perspectives on Land and Resource Management |

**Two of**:

| | |
|---|---|
| BIOL 301-3 | Systematic Botany |
| BIOL 307-3 | Ichthyology and Herpetology |
| BIOL 308-3 | Ornithology and Mammalogy |
| BIOL 318-3 | Fungi and Lichens |
| BIOL 322-3 | Entomology |
| BIOL 350-3 | Ethnobotany |
| FSTY 201-3 | Forest Plant Systems |

**400 Level**

| | |
|---|---|
| BIOL 409-3 | Conservation of Aquatic Ecosystems (*new course*) |
| **or** ENSC 425-3 | Climate Change and Global Warming |
| BIOL 411-3 | Conservation Biology |
| ENVS 414-3 | Environmental and Professional Ethics |
| FSTY 405-3 | Forest Ecosystem Modelling |
| **or** ENSC 406-3 | Environmental Modelling |
| GEOG 413-3 | Advanced GIS |
| NREM 400-4 | Natural Resources Planning |
| NREM-409-3 | Conservation Planning (*new course*) |
| ORTM 400-3 | Conservation Area Design and Management |

**Elective Requirement**

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## BSc Honours – Conservation Science and Practice (Landscape Conservation and Management)

The Honours in Conservation Science and Practice (Landscape Conservation and Management) offers students a higher level of education and substantial research experience for proceeding to post-graduate studies.

To enter the Honours Program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum requirement does not guarantee entry into the Honours Program, which is at the discretion of the Conservation Science and Practice Curriculum Committee. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours Program.

Honours students are required to complete the degree requirements for the BSc Conservation Science and Practice (Landscape Conservation and Management). In addition, each student must also complete an additional 6 credit hours in the form of an undergraduate thesis (normally NRES 430-6) under the supervision of a faculty member. Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students.

Motions S-201801.05 to S-201801.07 were dealt with as an omnibus motion.

**S-201801.05**
**New Course Approval - NREM 209-3**
Dale
That, on the recommendation of the Senate Committee on Academic Affairs, the new course NREM 209-3 The Practice of Conservation be approved as proposed.
Proposed semester of first offering: Winter 2019
CARRIED

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]`):

This course introduces the foundations of conservation thought and practice through environmental and social sciences and humanities. It examines the various actors involved in conservation, approaches to conservation, and ways of acting for conservation. Students develop skills in conservation practice including informing policy, conducting citizen science, and active restoration activities. Students learn diverse scientific approaches, and reflect on

multiple social critiques of the movement, and come to understand political- counter arguments and the ways in which they might respond as scholars, citizens and advocates.

**Prerequisites (taken prior):** None

**S-201801.06**
**New Course Approval - NREM 409-3**
Dale
That, on the recommendation of the Senate Committee on Academic Affairs, the new course NREM 409-3 Conservation Planning be approved as proposed.
Proposed semester of first offering: January 2019
CARRIED

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]):

Conservation planning is concerned with the theory and techniques to improve the scientific basis of conservation decisions and the cost-effectiveness of conservation and management actions. Students learn to apply the basic tools of conservation planning to real and complex conservations problems. These tools include: systematic conservation planning; multi-criteria decision analysis; and risk assessment.

**Prerequisites (taken prior):** NREM 209-3 (proposed new course)

**S-201801.07**
**New Course Approval - BIOL 409-3**
Dale
That, on the recommendation of the Senate Committee on Academic Affairs, the new course BIOL 409-3 Conservation of Aquatic Ecosystems be approved as proposed.
Proposed semester of first offering: September 2019
CARRIED

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]):

Aquatic ecosystems face many challenges requiring diverse conservation approaches. This course introduces students to the structure and functioning of aquatic ecosystems and exposes them to the myriad of conservation challenges being faced by these systems. Common approaches used to address conservation issues in aquatic ecosystems are presented and discussed using a series of case studies illustrating their successes and failures.

**Prerequisites (taken prior):** BIOL 201 (Ecology)

**S-201801.08**
**Course Deletion - ORTM 310**
Whitcombe
That, on the recommendation of the Senate Committee on Academic Affairs, the deletion of ORTM 310 (Research Methods and Analysis), ORTM 412 (Issues and Trends in Outdoor Recreation and Tourism), ORTM 414 (Polar Tourism and Recreation) be approved as proposed.
Effective date: September 2018
CARRIED (consent agenda)

**S-201801.09**
**New Course Approval - PHYS 298 (3-6)**
Hartley
That, on the recommendation of the Senate Committee on Academic Affairs, the new course PHYS 298 (3-6) Special Topics in Physics be approved as proposed.
Proposed semester of first offering: September 2018
CARRIED

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]):

The content of this course varies according to the instructor and student requests. This course may be repeated~~, up~~ to a maximum of ~~six~~ 6 credit hours if the material is substantially different.

**Prerequisites (taken prior):** Permission of the instructor

**S-201801.10**
**Change to the Course Prerequisite - PHYS 404-3**
Whitcombe
That, on the recommendation of the Senate Committee on Academic Affairs, the change to the course prerequisite for PHYS 404-3 Solid State Physics on page 283 in PDF version of the 2017/2018 undergraduate calendar be approved as proposed.
Effective date: September 2018
CARRIED (consent agenda)

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]):

**PHYS 404-3 Solid State Physics** This course covers ~~P~~physics of the solid state of matter~~. Covers~~ including: theories of metals, crystal lattices, reciprocal lattice, periodic potentials, electron dynamics, band structures, conduction in metals, phonons in metals, semiconductors, superconductivity and diamagnetism and paramagnetism.~~,~~ ~~superconductivity~~.

Prerequisites: PHYS 202-4, PHYS 206-4~~, PHYS 302-3~~

**S-201801.11**
**Change to the Course Prerequisite - PHYS 406-3**
Whitcombe
That, on the recommendation of the Senate Committee on Academic Affairs, the change to the course prerequisite for PHYS 406-3 Subatomic Physics on page 283 in PDF version of the 2017/2018 undergraduate calendar be approved as proposed.
Effective date: September 2018
CARRIED (consent agenda)

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]):

**PHYS 406-3 Subatomic Physics** This course covers ~~P~~properties and structure of subatomic particles, symmetries and conservation laws, electromagnetic, weak, and hadronic interactions, beta decay, alpha decay, gamma decay, models of nuclear structure, nuclear reactions, fission, fusion, quarks and hadron spectroscopy.

*Prerequisites*: PHYS 206-4~~, PHYS 302-3~~

**S-201801.12**
**Change to the Course Prerequisite - PHYS 407-3**
Whitcombe
That, on the recommendation of the Senate Committee on Academic Affairs, the change to the course prerequisite for PHYS 407-3 Statistical Mechanics on page 283 in PDF version of the 2017/2018 undergraduate calendar be approved as proposed.
Effective date: September 2018
CARRIED (consent agenda)

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]):

**PHYS 407-3 Statistical Mechanics** This course covers ~~K~~kinetic theory of gases, laws of thermodynamics, probability theory, probability distributions, equilibrium statistical ensembles, ideal gases, phase transitions, critical phenomena~~,~~ and quantum statistics.

Prerequisites: PHYS 200-3~~, PHYS 302-3~~

**10.2 Senate Committee on Admissions and Degrees** **Mr. Annear**

None

**10.3 Senate Committee on First Nations and Aboriginal Peoples** **Dr. Ryan**

**S-201801.13**
**Changes to Course Requirements – First Nations Studies Graduate Program**
M. Peterson
That, on the recommendation of the Senate Committee on First Nations and Aboriginal Peoples, the change(s) to the course requirements for the FNST Graduate program on page 67 of the 2017/2018 PDF calendar, be approved as proposed.
Effective date: September 2018

**Motion to refer**
Casperson
Motion S-201801.13 was referred to the Senate Committee on Academic Affairs.
CARRIED

**10.4 Senate Committee on Honorary Degrees and Other Forms of Special Recognition**

**10.4.1 Changes to the Honorary Degree Policy**

**S-201801.14**
**Changes to the Honorary Degree Policy**
Mandy
That, on the recommendation of the Senate Committee on Honorary Degrees and Other Forms of Special Recognition, the changes to the Honorary Degree policy be approved as proposed.
Effective Date: Upon the approval of Senate

The annotated version of the revised Honorary Degree policy and the current version of the Honorary Degree policy were included in the meeting package.

**Amendment 1**
Casperson
That under 4.2 “The President, as the Chair of Senate, will have discretion…” be changed to “The President, as the Chair of Senate, has the Discretion…”
CARRIED

**Amendment 2**
Casperson
That under 4.3 "The Registrar, as the Secretary of Senate, will oversee…" be changed to "The Registrar, as the Secretary of Senate, oversees…"
CARRIED

**Amendment 3**
Mandy
That under 4.3 "…the Ceremonies and Protocol Officer, or designated representative from the Office of Advancement, will act as Recording Secretary…" be change to "the Ceremonies and Protocol Officer, or designated representative from the Office of Advancement, acts as Recording Secretary…"
CARRIED

CARRIED as amended.

### 10.4.2 Valedictorian Nomination and Selection

The current Valedictorian Nominations Selection Procedures, Valedictorian Roles and Responsibilities, Valedictorian Information Package, Valedictorian Nomination Form, Valedictorian Evaluation Form and Valedictorian Interview Questions and Evaluation were included in the meeting package for information.

There was a discussion about whether a Valedictorian Nomination and Selection Policy should be developed and approved by Senate. There is currently no policy and the procedures have not been approved by either Governing body. Under the current structure, Valedictorians are chosen by students. The NBCGSS President stated she was on the selection committee last year, and she appreciated having someone lead the process and provide the necessary documentation. Issues of the confidentiality of GPAs need to be managed though the Office of the Registrar and Secretary of Senate. "For a student who has shown efforts towards reconciliation" should be added under the "Selection Process." Nothing will change for this cycle but could be in place for the 2019 Convocation year. There was general consensus that a policy should be drafted and approved by Senate, but students should still make the selections.

**Action item:** The Office of the University Secretariat will draft a Valedictorian Nomination and Selection Policy.

## 10.5 Senate Committee on Scholarships and Bursaries — Mr. Annear

***"For Approval" Item:***

**S-201801.15**
**Revision to Doctoral Dissertation Completion Award**
Larsen
That, on the recommendation of the Senate Committee on Scholarships and Bursaries, the revised Awards Guide Description for the Doctoral Dissertation Completion Award be approved as amended.
Effective Date: 2017-2018 Academic Year

Senators were sent an updated version of the award material based on the SCSB meeting earlier on January 24, 2018, and it was posted to the Senate SharePoint site (attached to the minutes as Appendix I).

CARRIED

***"For Information" Items:***

**SCSB 20171122.03** (approved)
**New Community Arts Council Award**
That the new Terms and Conditions for the Community Arts Council Award be approved.
Effective Date: 2018-2019 Academic Year

**SCSB20171122.04** (approved)
**Revision to William Dow Ferry Graduate Fellowship in Political Science**
That the revised Terms and Conditions for the William Dow Ferry Graduate Fellowship in Political Science be approved.
Effective Date: 2018-2019 Academic Year

**SCSB 20171213.04** (approved)
**New Northern Transitions Student Success Award**
That the new Terms and Conditions for the Northern Transitions Student Success Award be approved.
Effective Date: 2018-2019 Academic Year

**SCSB 20171213.05** (approved)
**New Costco Wholesale Canada Ltd. Bursary**
That the new Terms and Conditions for the Costco Wholesale Canada Ltd. Bursary be approved.
Effective Date: 2019-2020 Academic Year

**SCSB 20171213.06** (approved)
**New Jack and Mary Wiggin Aboriginal Health Award**
That the new Terms and Conditions for the Jack and Mary Wiggin Aboriginal Health Award be approved.
Effective Date: 2018-2019 Academic Year

**SCSB20171213.07** (approved)
**Revision to Northern Society of Oilfield Contractors & Service Firms Bursary**
That the revised Terms and Conditions for the Energy Services BC Bursary (formerly - Northern Society of Oilfield Contractors and Service Firms Bursary) be approved.
Effective Date: 2018-2019 Academic Year

## 10.6 Senate Committee on Nominations — Mr. Ritchie

A list of current Senate committee vacancies was included in the meeting package for information.

**S-201801.16**
**Recommendation of Senate Committee Members to Senate**
Ritchie
That, on the recommendation of the Senate Committee on Nominations, the following candidate, who has met all eligibility requirements to serve on the Senate committees as indicated, be appointed as proposed.
Effective date: Immediately upon approval by Senate

| SENATE COMMITTEE POSITION TO BE FILLED | CANDIDATE |
|---|---|
| (except as otherwise noted, all terms begin immediately) | |
| **STEERING COMMITTEE OF SENATE** | |
| Student Senator (03/31/2018) | Ana Saenz |

CARRIED

## 10.7 Steering Committee of Senate — Dr. Ryan

**S-201801.17**
**Changes to the Senate Handbook - SCAAF Subcommittee on Academic Scheduling**
Horianopoulos
That, on the recommendation of the Steering Committee of Senate, the membership of the SCAAF Subcommittee on Academic Scheduling be adjusted as proposed.
Effective Date: Upon the approval of Senate
CARRIED

**S-201801.18**

**Changes to the Terms of Reference for the SCAAF Subcommittee on Curriculum and Calendar**

Summerville

That, on the recommendation of the Steering Committee of Senate, the terms of reference for the SCAAF Subcommittee on Curriculum and Calendar be approved as proposed.

Effective Date: Upon the approval of Senate

The University Secretary and members of the SCCC stated the SCCC should meet earlier in the process for approval of motions and calendar revisions to address changes that need to be made before College Councils approve the motions. Currently the SCCC reviews SCAAF motions the day before SCAAF, and it is not possible for changes to be to motions in time for the SCAAF meeting. The SCCC have also invited the people putting the motions forward to attend the SCCC meetings, and it has been very helpful. These amendments would incorporate that step as part of the process. The other change is the Registrar Service Officer, Curriculum, Calendar and Credentials would take on the role of the SCCC Recording Secretary to provide clarity and support to the SCCC and programs early on in the process. The intent is for the SCCC to be a standalone committee of Senate and no longer a subcommittee of SCAAF.

Senators provided the following feedback:

- The terms of reference should not be a mixture operational procedure and clarification of authority under the *University Act*.
- The terms of reference for a committee should define what a committee does. The "how" is an operational procedure.
- What the SCCC is supposed to do is missing from the terms of reference. The current terms of reference could be put under where the purpose statement is in the proposed terms of reference. Then how the SCCC operates could follow.
- Part 1 should include wording so the SCCC can consider new material, for example state calendar content instead of calendar revisions.
- Part 2 makes no reference to advising SCAAF.
- Part 3 is argumentative as to what calendars are and can be struck.
- Part 4 seems to be operational procedure and does not belong in the handbook. It also does not apply to all programs. Different departments have different structures in regard to curriculum committees. Something less specific would work better.
- The motion requires a two thirds majority approval of Senate. Operational things about flow may be better handled through a policy.

**Motion to refer to committee:**

Casperson

That motion S-201801.18 be referred to the SCS.

CARRIED

Since the timing of the SCCC meetings is to do with the operational side of the process, Ms. Howitt was asked to move forward with moving the SCCC meetings earlier in the process.

**Action item:** Ms. Howitt will move forward with moving the SCCC meetings earlier in the process.

The revised and current terms of reference and membership for the SCCC were included in the meeting package.

**S-201801.19**

**Changes to the Senate Handbook – Order of the Open Session Agenda**

Murphy

That, on the recommendation of the Steering Committee of Senate, the Senate Handbook be amended as proposed.

Effective Date: On approval of Senate

CARRIED

**11.0** **S-201801.20**

**Approval of Motions on the Consent Agenda** **Mr. Searle**

Whitcombe

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

CARRIED

**12.0 Information**

None

**13.0 Other Business**

13.1 Search Committees for Academic Vice-Presidents and other Senior Academic Administrators (discussion) **Ms. Sanford**

The University Secretary reported that she will request at the upcoming Board meeting that the HR Committee of the Board convene a special in February to meet with interested Senators regarding the draft selection procedures for the Search Committees for Academic Vice-Presidents and other Senior Academic Administrators. Communication will be forwarded to Senators in the next couple of weeks about the meeting.

13.2 Joint Board Senate Workshop **Ms. Sanford**

The Joint Board Senate Dinner and Workshop has been changed to March 22nd and 23rd. The topic for the joint session will be "Freedom of expression on Canadian campuses. "

**14.0** **S-201801.21**

**Move to In Camera Session**

Horianopoulos

That the meeting move In Camera.

CARRIED

**15.0** **S-201801.26**

**Adjournment**

Whitcombe

That the Senate meeting be adjourned.

CARRIED

The meeting ended at 4:56 p.m.