UNIVERSITY OF NORTHERN BRITISH COLUMBIA

SENATE MEETING
OPEN SESSION
AGENDA

September 23, 2020
3:30 – 5:30 PM
Zoom Only

1.0 Acknowledgement of Territory

2.0 S-202009.01
Approval of the Agenda ✢
Page 1 That the agenda for the September 23, 2020 Open Session of Senate be approved as presented.

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

3.0 Presentation – Scheduling **Kimberly Read**
Associate Registrar, Records & Systems

4.0 Approval of the Minutes

S-202009.02
Approval of the Minutes
Page 5 That the Minutes for the August 26, 2020 Public Session of Senate be approved as presented.

5.0 Business Arising

5.1 Update on letter received from current student and Alumni, pertaining to the graduation process **Dale**

5.2 Update on Graduate Program Regulations **Lewis**

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

7.0 Report of the Provost *(5 minutes)* **Dale**

7.1 Academic Re-Structuring

8.0 Report of the Registrar *(5 minutes)* **Annear**

9.0 Question Period *(10 minutes)*

9.1 Written questions submitted in advance

9.1.1 How much money has the University paid to lawyers, retained by the University to conduct investigations? *(Senator Deo)*

9.1.2 What credentials do non-program registered students who are taking for credit courses receive from UNBC? *(Senator Hofsink)*

9.1.3 With the date of the transition to the Five faculty model established, what is the deadline for all faculty members to be hosted in one of these five faculties? *(Senator Hofsink)*

9.2 Questions from the floor

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

S-202009.03
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 Academic Appeals **Klassen-Ross**

11.2 Senate Committee on Academic Affairs **Dale**

For Approval Items:

S-202009.04
Consent **Change(s) to Course Prerequisite – ENGR 130**
That, on the recommendation of the Senate Committee on Academic Affairs, the changes to the course prerequisite for ENGR 130-4 Mechanics of Materials I, on page 218 (in the print or PDF calendar accessible on the UNBC web page) of the 2019/2020 undergraduate calendar, be approved as proposed.
Page 11 **Effective Date:** January 2021

S-202009.05
Consent **Change(s) to Course Description – ENGR 152**
That, on the recommendation of the Senate Committee on Academic Affairs, the change to the course description for ENGR 152-1 Engineering Tools II, on page 218 (in the print or PDF calendar accessible on the UNBC web page) of the 2019/2020 undergraduate calendar, be approved as proposed.
Page 13 **Effective Date:** January 2021

S-202009.06
Consent **Change(s) to Course Title and Description – MATH 435**
That the changes to the course title and course description, for the course of Math 435-3 Numerical Analysis II, be approved as proposed for the 2020/2021 undergraduate calendar.
Page 15 **Effective Date:** January 2021

S-202009.07
Consent **Change(s) to Course Title and Description – MATH 635**
That the changes to the course title and course description, for the course of Math 635-3 Numerical Analysis II, be approved as proposed for the 2020/2021 undergraduate calendar.
Page 20 **Effective Date:** January 2021

S-202009.08
Regular **Change(s) to Program Requirements**
That the changes to the program requirements for the BSc Conservation Science and Practice – Landscape Conservation and Management major, on page 81 and 82 of the 2020/21 undergraduate calendar, be approved as proposed.
Page 25 **Effective Date:** September 2021

S-202009.09

Regular **Change(s) to Calendar – Reactivate FNST 425**
That FNST 425-3 Oral History be reactivated as a course at the University of Northern British Columbia and in doing so be included in the calendar using the calendar entry found on pages 230 and 231 of the 2019-2020 calendar.
Page 29 **Effective Date:** January 2021

11.3 Steering Committee of Senate **Payne**

11.4 Senate Committee on Nominations

For Approval Items:

Regular **S-202009.10**
Recommendation of Senate Committee Members to Senate
That, on the recommendation of the Senate Committee on Nominations, and barring further nominations from the floor of Senate, the following candidates, who have met all eligibility requirements to serve on Senate committees as indicated, be appointed as proposed.
Effective date: September 23, 2020

For Information Items:

Vacancies

COMMITTEE	POSITION	TERM EXPIRY DATE
SCS	Student Senator	08/31/2021
SCN	Faculty Senator	03/31/2023
	Lay Senator	03/31/2021
SCA	Faculty Member	03/31/2023
SCAD	Faculty Member	03/31/2023
	Graduate Student	03/31/2023
SCCC	Faculty Senator	03/31/2023
	Student Senator	08/31/2021
SCAAF	Faculty Member	03/31/2023
	Faculty Member	03/31/2021
	Graduate Student	08/31/2021
SSAS	Professional Program Faculty Rep (appointed by Provost)	03/31/2023
	Graduate Student	08/31/2021
SCFNAP	Aboriginal Undergraduate Student Senator	08/31/2021
	Aboriginal Regional Senator or Aboriginal Lay Senator	03/31/2021
SCSB	Faculty Senator — CASHS	03/31/2023
	Graduate Student Senator	08/31/2021
	Lay Senator	03/31/2023
SCUB	Faculty Senator	03/31/2021
	Faculty Member – Professional Programs	03/31/2022
	Graduate Student	08/31/2021
	Undergraduate Student	08/31/2021
SSAC	Tenured professors from the Faculty of Business and Economics	03/31/2023
	Tenured professors from the Faculty of Indigenous Studies, Social Sciences and Humanities	03/31/2023
	Tenured professors from the Faculty of Environment	03/31/2023

Note: The symbol "†" denotes that an appointment by Senate is pending.

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

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

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

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

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

For Information Items:

SCSB20200826.04
Revised Steadman Family Matching Grant Bursary
That the revised Terms and Conditions for the Steadman Family Matching Grant Bursary with a name change to Steadman Family Bursary be approved with a revision for costs to include "tuition, fees and books".
Page 31 Effective Date: 2020-2021 Academic Year

SCSB20200826.05
Revised PeroxyChem Canada Ltd. Endowed Scholarship
That the revised Terms and Conditions for the PeroxyChem Canada Ltd. Endowed Scholarship with a name change to United Initiators Canada Ltd. Scholarship be approved.
Page 33 Effective Date: 2020-2021 Academic Year

11.10 Senate Committee on University Budget

12.0 Information

13.0 Other Business

14.0 **S-202009.11** *(10 minutes)*
Move to the Closed Session
That the meeting move to Close Session.

15.0 **S-202009.17**
Adjournment
That the Senate meeting be adjourned.

UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Motion Number (assigned by Steering Committee of Senate): S-202009.04

SENATE COMMITTEE ON ACADEMIC AFFAIRS

PROPOSED REVISION OF CALENDAR ENTRY

Motion: That the changes to the course prerequisite for ENGR 130-4 Mechanics of Materials I, on page 218 (in the print or PDF calendar accessible on the UNBC web page) of the 2019/2020 undergraduate calendar, be approved as proposed.

1. **Effective date:** January 2021

2. **Rationale for the proposed revisions:** To make the prerequisite consistent with other required courses in 1st year engineering.

3. **Implications of the changes for other programs, etc., if applicable:** "None"

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

ENGR 130-4 Mechanics of Materials I

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

Prerequisites: PHYS 110-4

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

ENGR 130-4 Mechanics of Materials I

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

Prerequisites: PHYS 110-4 with a minimum grade of D-, or PHYS 100-4 with a minimum grade of B

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6. **Authorization**:

Program / Academic / Administrative Unit: Engineering

College: CSAM

SCCC Reviewed: May 25, 2020

College Council Motion Number: CSAMCC 2020: 06:11:05

College Council Approval Date: June 11, 2020

Senate Committee on First Nations and Aboriginal Peoples Motion Number: N/A

Senate Committee on First Nations and Aboriginal Peoples Meeting Date: N/A

7. **Other Information**

Attachment Pages: __0__ pages

INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING

Brief Summary of Committee Debate:

Motion No.:	Omnibus motion SCAAF202009.04		
Moved by:	T. Klassen-Ross	**Seconded by:**	A. Aravind
Committee Decision:	CARRIED		
Approved by SCAAF:	September 9, 2020	MRT Dale	
	Date	**Chair's Signature**	

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

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UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Motion Number (assigned by Steering Committee of Senate): S-202009.05

SENATE COMMITTEE ON ACADEMIC AFFAIRS

PROPOSED REVISION OF CALENDAR ENTRY

Motion: That the change to the course description for ENGR 152-1 Engineering Tools II, on page 218 (in the print or PDF calendar accessible on the UNBC web page) of the 2019/2020 undergraduate calendar, be approved as proposed.

1. **Effective date:** January 2021

2. **Rationale for the proposed revisions:** A 1-credit course does not provide enough time to learn multiple software tools. Given that CAD (computer aided design) is more relevant to engineering students, and that there are several GIS (geographic information system) courses available for interested students to take, ENGR 152 will focus only on CAD software tools.

3. **Implications of the changes for other programs, etc., if applicable:** None

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

ENGR 152-1 Engineering Tools II

This course provides an introduction to engineering problem-solving using common software tools, including spreadsheets, CAD and GIS software. Case studies provide relevance and serve to bind together many of the topics covered in the course.

Prerequisites: Admission to an Engineering program, ENGR 117-3 and ENGR 151-1

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

ENGR 152-1 Engineering Tools II

This course provides an introduction to engineering problem-solving using common software tools~~,~~ and ~~including spreadsheets,~~ focusing on CAD ~~and GIS~~ software. Case studies provide relevance and serve to ~~bind together~~ synthesize many of the topics covered in the course.

Prerequisites: Admission to an Engineering program, ENGR 117-3 and ENGR 151-1

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6. **Authorization:**

Program / Academic / Administrative Unit: Engineering

College: CSAM

SCCC Reviewed: May 25, 2020

College Council Motion Number: CSAMCC 2020: 06:11:06

College Council Approval Date: June 11, 2020

Senate Committee on First Nations and Aboriginal Peoples Motion Number: N/A

Senate Committee on First Nations and Aboriginal Peoples Meeting Date: N/A

7. **Other Information**

Attachment Pages: __0__ pages

INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING

Brief Summary of Committee Debate:

Motion No.:	Omnibus motion SCAAF202009.05	
Moved by:	T. Klassen-Ross	**Seconded by:** A. Aravind
Committee Decision:	CARRIED	
Approved by SCAAF:	September 9, 2020 **Date**	MRT Dale **Chair's Signature**

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

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UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Motion Number (assigned by Steering Committee of Senate): S-202009.06

SENATE COMMITTEE ON ACADEMIC AFFAIRS

PROPOSED REVISION OF CALENDAR ENTRY

Motion: That the changes to the course title and course description, for the course of Math 435-3 Numerical Analysis II, be approved as proposed for the 2020/2021 undergraduate calendar.

1. **Effective date:** January 202a

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

There are four main reasons for the proposed changes.

a) 4th year Applied Mathematics courses: In the past, Math 435 was offered twice in 2003 and 2005. The Department of Mathematics has expressed interest to offer Applied Mathematics courses, with the recent new faculty members in Applied Mathematics. This is one of the new 4th year elective course that students can take to fulfill their major or honours requirement for the 400-level courses. This is a standard topic for a second course on numerical methods at other Canadian universities - see attached course description from McGill and UBC.

b) New service course for Engineering: The Department of Engineering has expressed interest for their students be credited for an advanced course on numerical methods in partial differential equations for the new 4-year program in Environment engineering and Civil engineering and the future Masters of Engineering program.

c) New course title/description: The new course title and description are aimed to attract students from science and engineering. While the target audience for the course in the past has been mainly mathematic students, this course is invaluable for other students who would be interested in computational science and modelling, such as from physics, chemistry, biology, natural resources, economics and engineering. Moreover, with the upcoming expansion of the engineering program, there will be a need for an advanced numerical methods course for modelling in engineering applications.

d) Removed Preclusion: The precluded course of Math 331-3 has not been offered since 1998.

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

Students enrolled in Mathematics, Computer Science, Chemistry, Physics, Economics, Engineering and double majors in Mathematics will remain unaffected. The old prerequisites of Math 230 “Linear differential equations and boundary value problems” are now part of co-requisite of Math 335 “Introduction to numerical methods”. Thus, a prerequisite of Math 335 will ensure the students have adequate background for this course.

Upon consultation with the engineering curriculum chair, Dr. Steve Helle, the engineering department is strongly supportive of the new proposed course, as the course will expose their senior undergraduate and Masters level engineering students to many numerical methods relevant for modelling and applications today.

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

MATH 435-3 Numerical Analysis II

A continuation of MATH 335-3, with the focus mainly on the numerical solution of ordinary and partial differential equations. Topics include initial value problems for systems of ordinary differential equations, boundary value problems for ordinary differential equations, and an introduction to the numerical solution of

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canonical second-order partial differential equations via finite difference methods.

Prerequisites: MATH 230-3, MATH 335-3
Precluded: MATH 331-3

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

MATH 435-3 ~~Numerical Analysis II~~ Numerical Methods for Partial Differential Equations

~~A continuation of MATH 335-3, with the focus mainly on the numerical solution of ordinary and partial differential equations. Topics include initial value problems for systems of ordinary differential equations, boundary value problems for ordinary differential equations, and an introduction to the numerical solution of canonical second-order partial differential equations via finite difference methods.~~

This course introduces the theory and application of numerical methods for partial differential equations for science and engineering. Programming and mathematical analysis of numerical methods are emphasized. Topics include methods for solving linear and nonlinear systems (direct and iterative methods), initial value problems, and boundary value problems (finite difference, spectral, finite volume, and finite element methods).

Prerequisites: ~~MATH 230-3,~~ MATH 335-3
~~*Precluded:* MATH 331-3~~

6. **Authorization**:

Program / Academic / Administrative Unit: Department of Mathematics and Statistics

College: Science and Management

SCCC Reviewed: May 25, 2020

College Council Motion Number: CSAMCC 2020: 06:11:07

College Council Approval Date: June 11, 2020 (Pending)

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: ___2____ pages

INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING

Brief Summary of Committee Debate:

Motion No.: Omnibus motion SCAAF202009.06

Moved by: I. Hartley **Seconded by:** T. Klassen-Ross

Committee Decision: CARRIED

Approved by SCAAF: September 9, 2020 MRT Dale
Date **Chair's Signature**

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

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MATH 579 Numerical Differential Equations (4 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Overview

Mathematics & Statistics (Sci) : Numerical solution of initial and boundary value problems in science and engineering: ordinary differential equations; partial differential equations of elliptic, parabolic and hyperbolic type. Topics include Runge Kutta and linear multistep methods, adaptivity, finite elements, finite differences, finite volumes, spectral methods.

Terms: Winter 2017

Instructors: Andy Wan (Winter)

- Winter
- Prerequisites: MATH 375 and MATH 387 or permission of the instructor.

This course may be used as a required or complementary course in the following programs:

- Master of Engineering (M.Eng.) Electrical Engineering (Thesis): Computational Science & Engineering
- Master of Engineering (M.Eng.) Mechanical Engineering (Thesis): Computational Science & Engineering
- Master of Science (M.Sc.) Computer Science (Thesis): Computational Science & Engineering
- Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & Engineering

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MATH 405 Numerical Methods for Differential Equations

Interpolation, numerical integration, numerical solution of ordinary and partial differential equations. Practical computational methods emphasized and basic theory developed through simple models. See Faculty of Science credit exclusion list: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,414.

This course is eligible for Credit/D/Fail grading. To determine whether you can take this course for Credit/D/Fail grading, visit the Credit/D/Fail website. You must register in the course before you can select the Credit/D/Fail grading option.

Credits: 3

Pre-reqs: One of MATH 256, MATH 257, MATH 316.

Status	Section	Activity	Term	Interval	Days	Start Time	End Time	Comments
Full	MATH 405 101	Lecture	1		Tue Thu	14:00	15:30	Section Comments

UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Motion Number (assigned by Steering Committee of Senate): S-202009.07

SENATE COMMITTEE ON ACADEMIC AFFAIRS

PROPOSED REVISION OF CALENDAR ENTRY

Motion: That the changes to the course title and course description, for the course of Math 635-3 Numerical Methods in Differential Equations, be approved as proposed for the 2020/2021 graduate calendar.

1. **Effective date:** January 2021

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

   There are four main reasons for the proposed changes.

   a) Graduate Applied Mathematics course: In the past, Math 635 was offered once in 2003. The Department of Mathematics has expressed interest to offer Applied Mathematics courses, with the recent new faculty members in Applied Mathematics. This is one of the new elective course that graduate students can take to fulfill their requirement for the 600-level courses. This is a standard topic for a second course on numerical methods at other Canadian universities - see attached course description from McGill and UBC.

   b) New service course for Engineering: The Department of Engineering has expressed interest for their students be credited for an advanced course on numerical methods in partial differential equations for their future Masters of Engineering program.

   c) New course title/description: The new course title and description are aimed to attract students from science and engineering. While the target audience for the course in the past has been mainly mathematic students, this course is invaluable for other students who would be interested in computational science and modelling, such as from physics, chemistry, biology, natural resources, economics and engineering. Moreover, with the upcoming expansion of the engineering program, there will be a need for an advanced numerical methods course for modelling in engineering applications.

   d) Removed Preclusion: The precluded course of Math 331-3 has not been offered since 1998.

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

   Students enrolled in Mathematics, Computer Science, Chemistry, Physics, Economics, Engineering and double majors in Mathematics will remain unaffected. The old prerequisites of Math 230 “Linear differential equations and boundary value problems” are now part of co-requisite of Math 335 “Introduction to numerical methods”. Thus, a prerequisite of Math 335 will ensure the students have adequate background for this course. In the case of a strong graduate student, the Math 335 prerequisite may be waived with additional reading to fill in any missing gaps.

   Upon consultation with the engineering curriculum chair, Dr. Steve Helle, the engineering department is strongly supportive of the new proposed course, as the course will expose their senior undergraduate and Masters level engineering students to many numerical methods relevant for modelling and applications today.

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

   MATH 635-3 Numerical Methods in Differential Equations

   A course in numerical analysis which focuses mainly on the numerical solution of ordinary and partial differential equations. Topics include: initial value problems for systems of ordinary differential equations, boundary value problems for ordinary differential equations, and an introduction to the numerical solution of

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canonical second- order partial differential equations via finite difference methods.

Precluded: MATH 331-3, MATH 435-3

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

MATH 635-3 ~~Numerical Methods in Differential Equations~~ Numerical Methods for Partial Differential Equations

~~A course in numerical analysis which focuses mainly on the numerical solution of ordinary and partial differential equations. Topics include: initial value problems for systems of ordinary differential equations, boundary value problems for ordinary differential equations, and an introduction to the numerical solution of canonical second- order partial differential equations via finite difference methods.~~

This advanced course introduces the theory and application of numerical methods for partial differential equations for science and engineering. Programming and mathematical analysis of numerical methods are emphasized. Topics include methods for solving linear and nonlinear systems (direct and iterative methods), initial value problems, and boundary value problems (finite difference, spectral, finite volume, and finite element methods).

Prerequisites: MATH 335-3 or permission of the instructor
Precluded: ~~MATH 331-3,~~ MATH 435-3

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6. **Authorization**:

Program / Academic / Administrative Unit: Department of Mathematics and Statistics

College: Science and Management

SCCC Reviewed: May 25, 2020

College Council Motion Number: CSAMCC 2020: 06:11:08

College Council Approval Date: June 11, 2020

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**

INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING

Brief Summary of Committee Debate:

Motion No.: Omnibus motion SCAAF202009.07

Moved by: I. Hartley **Seconded by:** T. Klassen-Ross

Committee Decision: CARRIED

Approved by SCAAF: September 9, 2020 ______________________
Date **Chair's Signature**

For recommendation to ✓, or information of _____ Senate.

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MATH 579 Numerical Differential Equations (4 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Overview

Mathematics & Statistics (Sci) : Numerical solution of initial and boundary value problems in science and engineering: ordinary differential equations; partial differential equations of elliptic, parabolic and hyperbolic type. Topics include Runge Kutta and linear multistep methods, adaptivity, finite elements, finite differences, finite volumes, spectral methods.

Terms: Winter 2017

Instructors: Andy Wan (Winter)

- Winter
- Prerequisites: MATH 375 and MATH 387 or permission of the instructor.

This course may be used as a required or complementary course in the following programs:

Master of Engineering (M.Eng.) Electrical Engineering (Thesis): Computational Science & Engineering

Master of Engineering (M.Eng.) Mechanical Engineering (Thesis): Computational Science & Engineering

Master of Science (M.Sc.) Computer Science (Thesis): Computational Science & Engineering

Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & Engineering

MATH 405 Numerical Methods for Differential Equations

Interpolation, numerical integration, numerical solution of ordinary and partial differential equations. Practical computational methods emphasized and basic theory developed through simple models. See Faculty of Science credit exclusion list: http://www.calendar.ubc.ca/vancouver /index.cfm?tree=12,215,410,414.

This course is eligible for Credit/D/Fail grading. To determine whether you can take this course for Credit/D/Fail grading, visit the Credit/D/Fail website. You must register in the course before you can select the Credit/D/Fail grading option.

Credits: 3

Pre-reqs: One of MATH 256, MATH 257, MATH 316.

Status	Section	Activity	Term	Interval	Days	Start Time	End Time	Comments
Full	MATH 405 101	Lecture	1		Tue Thu	14:00	15:30	Section Comments

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

Program / Academic / Administrative Unit:

College: CASHS

College Council Motion Number: N/A

College Council Approval Date: N/A

Senate Committee on First Nations and Aboriginal Peoples Motion Number: SCFNAP202009.04

Senate Committee on First Nations and Aboriginal Peoples Meeting Date: September 4, 2020

7. <u>Other Information</u>

Attachment Pages: ___#___ pages

INFORMATION TO BE COMPLETED AFTER SENATE COMMITTEE ON ACADEMIC AFFAIRS MEETING

Brief Summary of Committee Debate:

Motion No.:	SCAAF202009.09		
Moved by:	B. Owen	**Seconded by:**	T. Klassen-Ross
Committee Decision:	CARRIED		

Approved by SCAAF: September 9, 2020   MRT Dale

Date   **Chair's Signature**

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

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UNBC

Motion Number (assigned by SCS): ____________

SENATE COMMITTEE ON SCHOLARSHIPS AND BURSARIES (SCSB)

PROPOSED MOTION

Motion: That the revised Terms and Conditions for the Steadman Family Matching Grant Bursary with a name change to Steadman Family Bursary be approved.

Effective Date: 2020-2021 Academic Year

Rationale: To revise the Steadman Family Matching Grant Bursary commencing the 2020-2021 Academic Year.

Proposed By: Emmy Blouin, Development Officer – Donor Relations

Advancement Contact: Emmy Blouin, Development Officer – Donor Relations

Faculty/Academic Department: N/A

Date: August 14, 2020

TO BE COMPLETED AFTER SCSB MEETING

Brief Summary of Committee Debate: The Committee endorsed the motion.

Motion No.: SCSB20200826.04

Moved By: Owen

Seconded By: Blouin

Committee Decision: CARRIED

Attachments: 1 Page

Approved by SCSB: August 26, 2020
Date

Chair's Signature

For information of Senate.

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AWARDS GUIDE INFORMATION:

Award Category: Open

Award Name: Steadman Family ~~Matching Grant~~ Bursary

Awards Guide Description/Intent: This bursary was established by Tom and Linda Steadman – entrepreneurial partners in Prince George business – to help those whose personal efforts, like their own, contributed towards their success. Tom Steadman was a founding advocate of the University, a Founder of the Interior University Society, Member of the Implementation Planning Group and the Interim Governing Council. He also chaired UNBC's North to the Future Campaign and the University of Northern British Columbia Foundation.

Donor: Tom and Linda Steadman

Value: Up to cost ~~50%~~ of tuition, fees, and books. Max of $5,000

Number: One, additional awards variable dependent on remaining funds. ~~Variable~~

Award Type: Bursary

Eligibility: Available to full-time students enrolled in an undergraduate degree program at UNBC. Candidates must reasonably demonstrate that they have personally earned the monies being applied towards their tuition and books for the upcoming academic year. To the degree possible, amounts will be maximized in the following priority: First preference will be given to the previous recipients of this award. Second preference will be given to applicants with the highest self-earnings.

Criteria: Demonstrated financial need.

Notes: Renewable for max 3 years. Additional awards variable and non-renewable.

Application Instructions: Complete the financial need section of the application form and supply a letter to the Awards Office outlining how you have earned the money you plan to use for your education.

Effective Date: Endowed 1993

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

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UNBC

Motion Number (assigned by SCS): ____________

SENATE COMMITTEE ON SCHOLARSHIPS AND BURSARIES (SCSB)

PROPOSED MOTION

Motion: That the revised Terms and Conditions for the PeroxyChem Canada Ltd. Endowed Scholarship with a name change to United Initiators Canada Ltd. Scholarship be approved.

Effective Date: 2020-2021 Academic Year

Rationale: To revise the United Initiators Canada Ltd. commencing the 2020-2021 Academic Year.

Proposed By: Emmy Blouin, Development Officer – Donor Relations

Advancement Contact: Emmy Blouin, Development Officer – Donor Relations

Faculty/Academic Department: N/A

Date: August 14, 2020

TO BE COMPLETED AFTER SCSB MEETING

Brief Summary of Committee Debate: The Committee endorsed the motion.

Motion No.: SCSB20200826.05

Moved By: Blouin **Seconded By:** Lewis

Committee Decision: CARRIED **Attachments:** 1 Page

Approved by SCSB: August 26, 2020

Date **Chair's Signature**

For information of Senate.

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AWARDS GUIDE INFORMATION:

Award Category: In-course

Award Name: ~~PeroxyChem Canada Ltd. Endowed~~ United Initiators Canada Ltd. Scholarship

Awards Guide Description/Intent: As a worldwide company with stakeholdings in northern British Columbia, ~~PeroxyChem~~ United Initiators Canada Ltd. wishes to ensure a strong northern employee base, and to protect the environment. At ~~PeroxyChem~~, United Initiators Canada Ltd. people from across operations work together in teams. Their shared perspectives spark innovation, identify opportunities, and generate exciting new products.

Donor: ~~PeroxyChem Canada Ltd~~. United Initiators Canada Ltd.

Value: $1,000

Number: One

Award Type: Scholarship

Eligibility: Available to a full time student who is a resident of northern British Columbia and who has completed a minimum of 60 credit hours and declared a major in Chemistry and/or Biochemistry. Second preference will be given to a student who has completed between 30 and 60 credit hours with a chemistry and/or biochemistry focus.

Application Instructions: Submit a letter of reference from two of your professors attesting to your leadership in the classroom/field and work ethic to the Awards Office.

Note: The Chemistry Chair will review the applications and nominate the recipient.

Effective Date: Endowed 1993

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

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