

Simon Fraser University  
Maggie Benston Centre 1100  
8888 University Drive  
Burnaby, BC V5A 1S6

TEL 778.782.3042  
FAX 778.782.3080

gradstudies@sfu.ca  
www.sfu.ca/grad

MEMORANDUM

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ATTENTION Senate  
FROM Jeff Derksen,  
Chair of Senate Graduate Studies  
Committee (SGSC)  
RE: Program Changes

DATE November 15, 2018



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**For information:**

Acting under delegated authority at its meeting of November 6, 2018, SGSC approved the following program changes, effective **Summer 2019**:

**Faculty of Arts and Social Sciences**

Department of Gender, Sexuality, and Women's Studies

- 1) Program changes (calendar revisions): Gender, Sexuality, and Women's Studies MA and PhD

Department of Humanities

- 2) Program change: Humanities MA

School for International Studies

- 3) Program change (calendar revision): Latin American Studies graduate certificate

Department of Linguistics

- 4) Program changes (calendar revisions): Linguistics MA and PhD
- 5) Program changes (calendar revisions): Linguistics of a First Nations Language MA and graduate certificate

**Beedie School of Business**

- 6) Program change (calendar revision): Science and Technology Commercialization graduate certificate

**Faculty of Environment**

School Resource and Environmental Management

- 7) Program change (calendar revisions): Resource and Environmental Management MRM (Planning) (effective **Fall 2019**)

**Faculty of Health Sciences**

8) Program change: Health Sciences PhD

**Faculty of Sciences**

Departments of Mathematics

9) Program change: proposal for an Accelerated Master's Program in Mathematics

Department of Physics

10) Program change (calendar revisions): Physics MSc and PhD



FACULTY OF  
ARTS AND SOCIAL SCIENCES

MEMO

Office of the Dean

STREET ADDRESS  
Academic Quadrangle  
Room 6164

MAILING ADDRESS  
8888 University Drive  
Burnaby BC Canada  
V5A 1S6

778-782-4415 (Tel)  
[www.sfu.ca/fass](http://www.sfu.ca/fass) (Web)

ATTENTION: Jeff Derksen, Dean  
Graduate & Postdoctoral Studies

FROM : Sean Zwagerman, Chair  
Faculty of Arts and Social Sciences Graduate Studies Committee

RE: FASSGSC Proposals

DATE: October 15, 2018

The Faculty of Arts and Social Sciences Graduate Committee met on October 15, 2018 and passed the attached motions. Please place these items on the agenda for the next SGSC meeting.

We would like the above changes to become effective Summer 2019.

Sean Zwagerman  
Associate Dean, Faculty of Arts and Social Sciences

Department of Gender, Sexuality, and Women's Studies

*FASSGSC approve the calendar changes to the MA and PhD programs.*

Department of Humanities

*FASSGSC approve the calendar changes to the MA program.*

School for International Studies

*FASSGSC approve the calendar changes to the Latin American Studies graduate certificate.*

Department of Linguistics

*FASSGSC approve the calendar changes to Linguistics MA and PhD programs {program requirements}.*

*FASSGSC approve the calendar changes to Linguistics of a First Nations Language MA and graduate certificate {program requirements}.*

~~School of Public Policy~~

~~*FASSGSC approve the course change to PLCY 830 {title}.*~~

~~*FASSGSC approve the course changes to PLCY 821 {title}.*~~

~~*FASSGSC approve the course deletion of PLCY 822.*~~

~~*FASSGSC approve the course deletion of PLCY 899.*~~

~~Department of Political Science~~

~~*FASSGSC approve the new course POL 880.*~~



FACULTY OF ARTS AND SOCIAL SCIENCES  
Department of Gender, Sexuality & Women's Studies

Academic Quadrangle 5104A TEL 778.782.3333  
8888 University Drive, Burnaby, BC FAX 778.782.5518  
Canada V5A 1S6

[helen\\_leung@sfu.ca](mailto:helen_leung@sfu.ca)  
[www.sfu.ca/~hhl](http://www.sfu.ca/~hhl)

September 10, 2018

Dear Dr. Zwagerman:

Attached please find edits to the calendar entries for Gender, Sexuality and Women's Studies MA and PhD. There are no major revisions at this time. These are simply editorial updates prompted by Graduate and Postdoctoral Studies as part of the APR project. Please approve these edits under delegated authority for the next SGSC meeting in July (with effective date in Summer 2019).

Sincerely,  
Helen Leung

A handwritten signature in black ink, appearing to read 'Helen Leung'.

Chair of Graduate Program  
Department of Gender, Sexuality & Women's Studies



**Please note:**

To view the Fall 2018 Academic Calendar go to [www.sfu.ca/students/calendar/2018/fall.html](http://www.sfu.ca/students/calendar/2018/fall.html)

Department of Gender, Sexuality, and Women's Studies  
Simon Fraser University Calendar | Spring 2019

## Gender, Sexuality, and Women's Studies

### MASTER OF ARTS

This master of arts (MA) program offers interdisciplinary study and research leading to a master's degree. The program provides a strong academic approach, with core courses on feminist theory and methodology and a blend of advanced studies in specific fields, as well as directed readings for more individualized study. Students develop and demonstrate intellectual and analytical skills, in accordance with the particular criteria of the level of study, and in consultation with their senior supervisor and supervisory committee.

## Admission Requirements

Applicants must satisfy the gender, sexuality, and women's studies graduate program committee that they are prepared academically to undertake graduate work. In addition to University requirements, (see graduate general regulations), the program requires

- a substantial essay which is scholarly in format and approach. The submitted paper may be an undergraduate essay previously prepared, or one specially written for this purpose.

- a statement of gender, sexuality, and women's studies interests and goals; normally students will be expected to present a definite proposal for their research.

- a short description of previous relevant course work and/or employment. Previous work should include both specialized disciplinary training and broader interdisciplinary work concerned with women.

The specific requirements for application are provided at [www.sfu.ca/gsws/](http://www.sfu.ca/gsws/).

A student will be admitted into a specific option (thesis or course intensive) and so should apply to the options preferred.

Qualified students will be accepted into the MA thesis option only if a suitable senior supervisor is willing to supervise the student. Senior supervisors will be selected from joint gender, sexuality, and women's studies appointees and continuing faculty on the coordinating committee of the department including associate members.

A student can change from one option to another only with the approval of the graduate program committee. A student can transfer to the thesis option only if there is a suitable supervisor available.

A student with incomplete academic preparation for the MA program may be required to complete up to 12 units of additional work in either the Department of Gender, Sexuality, and Women's Studies or another relevant program.

The graduate program committee administers admissions and all matters pertaining to individual students, and consists of all continuing faculty members and/or associate faculty members.

Upon admission, the student will be assigned a two member advisory committee which has the responsibility for ensuring that the student fulfills all degree requirements. For further information concerning requirements, consult the department's graduate secretary or graduate chair.

## Program Requirements

The program can be completed in one of two ways, as outlined below.

### Thesis Option

Except in special circumstances as determined by the Gender, Sexuality, and Women's Studies Departmental Committee, a candidate for the MA in Gender, Sexuality, and Women's Studies must:

a) complete a minimum of 20 units of graduate seminar courses, including

GSWS 811 - Graduate Professional Development Colloquium I (3)

GSWS 812 - Graduate Professional Development Colloquium II (3)

and at least one of the following while maintaining at least a 3.0 CGPA

GSWS 800 - Methodology in Women's Studies Research (5)

GSWS 822 - Graduate Seminar in Feminist Theory (5)

b) Submit a thesis showing independent research and critical abilities. An MA thesis is expected to be an in-depth empirical or theoretical study. The normal thesis length is 60-120 pages. The student will be required to complete an oral examination on the thesis at the end of the MA program. See '1.9 Preparation for Examinations', and; Thesis proposal: Graduate students will write a thesis proposal to be presented to their supervisory committee. The committee will hold a thesis proposal defence for consultation with the student about the proposal. The Chair of the Gender, Sexuality, and Women's Studies Graduate Committee will also attend this meeting. The purpose of both the proposal and the consultation is to ensure that the student and the committee are in agreement about the nature of the work to be done for completion and the schedule for finishing the degree requirements. Students are expected to complete their proposal by the end of their fourth semester in the program.

Thesis defence: Students will be required to take an oral examination on their thesis at the end of the MA program. For further information, see the General Regulations (Graduate Programs) section of the University Calendar. Senior Supervisor: The Senior Supervisor shall have the primary responsibility for determining, in consultation with the student and the rest of the committee, the projected program of study, selecting appropriate research topics, and ensuring that the candidate fulfills all degree requirements. Senior Supervisors will be selected only from among Gender, Sexuality, and Women's Studies faculty members, Gender, Sexuality, and Women's Studies joint faculty appointments, and Gender, Sexuality, and Women's

Studies Associate faculty members. Supervisory Committee: The Supervisory Committee will consist of a senior supervisor and one or two other committee members who may be selected from faculty outside the department. The Committee will be formed by the end of the student's third semester in the program. Students may make changes to their Supervisory Committee in cases where, for instance, the development of their topic indicates a different faculty member would be more appropriate for the Committee. Changes made for any reason must be formally approved by the Graduate Program Chair and the Dean of Graduate Studies.

### Course Intensive Option

a) Students who choose this option normally will complete a minimum of 30 units of graduate seminar courses, including the following while maintaining at least a 3.0 CGPA.

GSWS 811 - Graduate Professional Development Colloquium I (3)

GSWS 812 - Graduate Professional Development Colloquium II (3)

GSWS 822 - Graduate Seminar in Feminist Theory (5)

b) Write two examinations based upon the subject areas of two of the completed gender, sexuality, and women's studies courses. Field Examinations: The Chair of the Gender, Sexuality, and Women's Studies Graduate Program will serve as the senior supervisor for students admitted into the course intensive option. Upon completion of all courses, the student, in consultation with the Chair of the GSWS Graduate Program, or designate, will decide on which courses the examinations will be based. The examinations will be set by the course instructors and graded by her/him and a second reader who will be chosen by the course instructor and the advisory committee. If a student fails one examination, s/he will be allowed to retake it. However, a failure of both examinations would constitute a failure of the degree. A second failure of a repeated examination constitutes a failure of the degree.

## Supervisory Committee

Following the student's enrolment, a supervisory committee will be formed which has responsibility for determining, in consultation with the student, the projected program of study, selecting appropriate research topics, and ensuring that the candidate fulfils all degree requirements. The senior supervisor will be selected from joint appointees in the Department of Gender, Sexuality, and Women's Studies faculty and associate faculty members.

Other faculty outside the department who are considered necessary by the student and her/his supervisors may also be added to the committee.

## Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

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REVISED  
CALENDAR ENTRY

## **Gender, Sexuality, and Women's Studies**

MASTER OF ARTS

### **Description of Program**

This master of arts (MA) program offers interdisciplinary study and research leading to a master's degree. The program provides a strong academic approach, with core courses on feminist theory and methodology and a blend of advanced studies in specific fields, as well as directed readings for more individualized study. Students develop and demonstrate intellectual and analytical skills, in accordance with the particular criteria of the level of study, and in consultation with their senior supervisor and supervisory committee.

### **Admission Requirements**

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. The Gender, Sexuality, and Women's Studies (GSWS) minimum requirement for admission to the MA is a BA (BSc) with a minimum CGPA of 3.5 for the thesis option, and a minimum CGPA of 3.0 for the course intensive option, from a recognized university. MA student will be admitted into a specific option (thesis or course intensive) and so should apply to the preferred option. A student can change from one option to another only with the approval of the graduate program committee. A student can transfer to the thesis option only if there is a suitable supervisor available.

Students will be accepted into the MA thesis option only if a suitable senior supervisor is willing to supervise them. Senior supervisors will be selected from joint GSWS appointees and continuing faculty on the coordinating committee of the department including associate members.

A student with incomplete academic preparation for the MA program may be required to complete up to 12 units of undergraduate course work in either the GSWS or another relevant program prior to commencing their MA.

### **Program Requirements**

#### **Thesis Option**

This program option consists of course work and a thesis for a minimum of 30 units

Students must complete

GSWS 811 - Graduate Professional Development Colloquium I (3)

GSWS 812 - Graduate Professional Development Colloquium II (3)

and one of

GSWS 800 - Methodology in Women's Studies Research (5)

GSWS 822 - Graduate Seminar in Feminist Theory (5)

and an additional 9 units of graduate courses\*

and a thesis

GSWS 898 - MA Thesis (10)

#### **Course Intensive Option**

This program option consists of courses and a field examination for a minimum of 36 units

## REVISED CALENDAR ENTRY

Students must complete

GSWS 811 - Graduate Professional Development Colloquium I (3)

GSWS 812 - Graduate Professional Development Colloquium II (3)

GSWS 822 - Graduate Seminar in Feminist Theory (5)

and an additional 19 units of graduate courses\*

and a field examination

GSWS 999 - MA Field Exam (6)

\* Two of these courses may be from gender, sexuality, and women's studies courses at the universities under the Western Deans' Agreement or relevant offerings in other Simon Fraser University departments, with the approval of the student's supervisory committee.

### Program Length

Students in the course intensive option are normally expected to complete the program requirements in four to six terms. Students in the thesis option are normally expected to complete the program requirements in six to eight terms.

### Other Information

#### **Supervisory Committee**

Upon admission, the student will be assigned a two member supervisory committee which has the responsibility for ensuring that the student fulfils all degree requirements. For further information concerning requirements, consult the department's graduate secretary or graduate chair.

Please consult the Department of Gender, Sexuality and Women's Studies website for more information.

### Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.



**Please note:**

To view the Fall 2018 Academic Calendar go to [www.sfu.ca/students/calendar/2018/fall.html](http://www.sfu.ca/students/calendar/2018/fall.html)

Department of Gender, Sexuality, and Women's Studies  
Simon Fraser University Calendar | Spring 2019

## Gender, Sexuality, and Women's Studies

### DOCTOR OF PHILOSOPHY

This doctor of philosophy (PhD) program offers interdisciplinary study and research leading to a doctorate. The program provides a strong academic approach, with core courses on feminist theory and methodology and a blend of advanced studies in specific fields, as well as directed readings for more individualized study. Students develop and demonstrate intellectual and analytical skills, in accordance with the particular criteria of the level of study, and in consultation with their senior supervisor and supervisory committee.

### Admission Requirements

Applicants must satisfy the Department of Gender, Sexuality, and Women's Studies graduate program committee that they are prepared academically to undertake doctoral work in gender, sexuality, and women's studies. Normally, a master's degree will be required. Applicants are required to submit three letters of reference.

In addition to University requirements for admission to a doctoral program, as listed in the graduate general regulations 1.3.4, the program requires:

- a sample of scholarly work in the form of a substantial essay which is scholarly in format and approach
- a statement of research interests and goals in gender, sexuality, and women's studies; normally students will be expected to present a definite proposal for their research
- a short description of previous relevant course work and/or employment. Previous work should include both specialized disciplinary training and broader interdisciplinary work concerned with women and/or gender.

### Program Requirements

The following are the doctorate requirements. Normally students complete course work before completing the comprehensive examinations, and will then go on to present and defend the PhD thesis proposal, all within two years. For further information concerning requirements, consult the department graduate secretary or graduate chair.

### Graduate Courses

Students complete three graduate courses. The graduate committee, in consultation with the student's supervisory committee, may require a student to complete additional courses, either to obtain breadth of background in gender, sexuality, and women's studies, participate in the professional development colloquia or to acquire specific preparation in the topic of the student's proposed thesis.

GSWS 811 - Graduate Professional Development Colloquium I (3)

GSWS 812 - Graduate Professional Development Colloquium II (3)

Two of any required courses may be from gender, sexuality, and women's studies at the universities under the Western Deans' Agreement or relevant offerings in other Simon Fraser University departments, with the approval of the student's supervisory committee. Students who have completed the Simon Fraser University or UBC Master of Arts program before admission to the doctoral program will not be permitted to duplicate graduate courses that they completed during their MA programs.

## **Comprehensive Examinations**

Students must pass comprehensive examinations that consist of three major scholarly/professional tasks to be set by the student's supervisory committee in consultation with the student, approved by the Department of Gender, Sexuality, and Women's Studies graduate committee, and completed to the satisfaction of the supervisory committee. One of the three tasks must be an exam or a review of the literature.

## **Thesis Proposal**

Students prepare a PhD thesis proposal and defend it in a presentation that is open to the whole department.

## **Thesis Submission**

Students will submit a PhD thesis giving evidence of independent research and critical abilities in the interdisciplinary study of women and/or gender. The student will be examined on the thesis in accordance with the Graduate General Regulations.

## **Academic Requirements within the Graduate General Regulations**

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

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REVISED  
CALENDAR ENTRY

## **Gender, Sexuality, and Women's Studies**

DOCTOR OF PHILOSOPHY

### **Description of Program**

This doctor of philosophy (PhD) program offers interdisciplinary study and research leading to a doctorate. The program provides a strong academic approach, with core courses on feminist theory and methodology and a blend of advanced studies in specific fields, as well as directed readings for more individualized study. Students develop and demonstrate intellectual and analytical skills, in accordance with the particular criteria of the level of study, and in consultation with their senior supervisor and supervisory committee.

### **Admission Requirements**

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Applicants must satisfy the Department of Gender, Sexuality, and Women's Studies graduate program committee that they are prepared academically to undertake doctoral work in gender, sexuality, and women's studies.

### **Program Requirements**

This program consists of courses, comprehensive exams, and a thesis for a minimum of 21 units. The graduate committee, in consultation with the student's supervisory committee, may require a student to complete additional courses, either to obtain breadth of background in gender, sexuality, and women's studies, participate in the professional development colloquia or to acquire specific preparation in the topic of the student's proposed thesis.

Students must complete

GSWS 811 - Graduate Professional Development Colloquium I (3)

GSWS 812 - Graduate Professional Development Colloquium II (3)

and an additional three graduate courses\*

and comprehensive examinations

GSWS 997 - PhD Comprehensive Examination (0)

and a thesis

GSWS 998 - PhD Thesis (6)

\* Two of these courses may be from gender, sexuality, and women's studies courses at the universities under the Western Deans' Agreement or relevant offerings in other Simon Fraser University departments, with the approval of the student's supervisory committee. Students who have completed the SFU or UBC Master of Arts program before admission to the doctoral program will not be permitted to duplicate graduate courses that they completed during their MA programs.

### **Program Length**

Students are expected to complete the program requirements in 18 terms.

REVISED  
CALENDAR ENTRY

## Other Information

### **Comprehensive examinations**

Students must pass comprehensive examinations that consist of three major scholarly/professional tasks to be set by the student's supervisory committee in consultation with the student, approved by the Department of Gender, Sexuality, and Women's Studies graduate committee, and completed to the satisfaction of the supervisory committee. One of the three tasks must be an exam or a review of the literature. Normally students complete course work before completing the comprehensive examinations within 6 terms.

### **Thesis**

Students prepare a PhD thesis proposal and defend it in a presentation that is open to the whole department. Students will submit a PhD thesis giving evidence of independent research and critical abilities in the interdisciplinary study of women and/or gender. The student will be examined on the thesis in accordance with the Graduate General Regulations.

## Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.



MEMO

ATTENTION Sean Zwagerman, FASSGSC Chair	TEL
FROM Paul Dutton, Acting Graduate Chair Humanities	
RE APR Calendar Entry	
DATE October 24, 2018	TIME

Dear Dr Zwagerman,

After reviewing the attached Humanities calendar submission, I can confirm that the entry requires no further revision and is publishable. Please place this proposal on the agenda of the next meeting of the Faculty of Arts and Social Sciences Graduate Studies Curriculum Committee.

Sincerely,

A handwritten signature in black ink, appearing to be "Paul Dutton".

Paul Dutton  
Acting Graduate Chair



**Please note:**

To view the Fall 2018 Academic Calendar go to [www.sfu.ca/students/calendar/2018/fall.html](http://www.sfu.ca/students/calendar/2018/fall.html)

Faculty of Arts and Social Sciences  
Simon Fraser University Calendar | Spring 2019

## Humanities

### MASTER OF ARTS

This master of arts (MA) program is suited to students who wish to pursue specific and advanced cross-disciplinary, text-based research projects. It enables specialization in a period or theme in the context of a strong grounding in the humanistic tradition from ancient Greece to the modern period in different cultures. Structured around two primary thematic modules (classical, medieval and Renaissance thought and culture; modernity and its discontents) to which courses will be linked, the program will train students to think critically in different disciplines, historic periods, and cultures.

## Admission Requirements

Applicants will hold an undergraduate degree with at least a 3.5 grade point average (GPA) in the humanities, or in humanistic disciplines such as classics, history, philosophy, English, and women's studies, or social sciences such as geography, sociology, anthropology, or political science. Applicants will also have to meet the standard requirements for admission to a Simon Fraser University master's program.

Admission decisions will be based on material that is submitted with the application.

## Language Requirement

Students will be expected to demonstrate proficiency in a language other than English.

### Program Requirements

Successful applicants will enter the program in the fall term. With a sequenced combination of four courses and thesis, students will complete the degree in 24 months.

HUM 800 - Theories and Methods in the Humanities (5)

HUM 801 - Research Development Seminar in the Humanities (5)

HUM 803 - MA Thesis (10)

and two of





**HUM 802 - Themes in the Humanities (5)**

**HUM 804 - Directed Readings (5)**

**HUM 805 - Special Topics (5)**

## **Thesis**

**Students complete a thesis that is defended at an oral examination as described in 1.9 and 1.10 of the graduate general regulations. The thesis proposal must be approved by both the supervisory committee and the graduate committee.**

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REVISED  
CALENDAR ENTRY

## Humanities

### MASTER OF ARTS

#### Description of Program

This master of arts (MA) program is suited to students who wish to pursue specific and advanced cross-disciplinary, text-based research projects. It enables specialization in a period or theme in the context of a strong grounding in the humanistic tradition from ancient Greece to the modern period in different cultures. Structured around three primary thematic modules (classical, medieval and Renaissance thought and culture; Asian thought and culture; and modernity and its discontents) to which courses will be linked, the program will train students to think critically in different disciplines, historic periods, and cultures.

#### Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Applicants will hold an undergraduate degree with at least a 3.5 grade point average (GPA) in the humanities, or in humanistic disciplines such as classics, history, philosophy, English, and women's studies, or social sciences such as geography, sociology, anthropology, or political science.

#### Program Requirements

This program consists of courses and a thesis for a minimum of 30 units.

Students must complete

HUM 800 - Theories and Methods in the Humanities (5)

HUM 801 - Research Development Seminar in the Humanities (5)

and two of

HUM 802 - Themes in the Humanities (5)

HUM 804 - Directed Readings (5)

HUM 805 - Special Topics (5)

and a thesis

HUM 803 - MA Thesis (10)

#### Program Length

Students are expected to complete the program requirements in six terms.

#### Other Information

##### Language requirement

Students will be expected to achieve a reading proficiency in a language other than English.

#### Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.



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515 West Hastings Street, Suite 7200

Vancouver BC Canada V6B 5K3

T 778.782.7148 | F 778.782.7837 | [www.sfu.ca/internationalstudies](http://www.sfu.ca/internationalstudies)

**Dr. Gerardo Otero**

*Professor of International Studies  
and Sociology, Coordinator of  
Latin American Studies Program*

E-Mail: [otero@sfu.ca](mailto:otero@sfu.ca)

Website: <http://www.sfu.ca/people/otero.html>

22 August 2018

To: Lisa Shapiro, Chair FASSGSC

The Latin American Studies Program constituted its Steering Committee over email exchange during the Summer of 2018. By the same means, the following changes to its calendar entry were approved on August 4, 2018 by tacit agreement to the proposed changes. These are as follows:

- ~~1. Delete the MA in Latin American Studies, which has been suspended since 2012. The last two students in this program graduated in 2017, so no other students will be affected.~~
2. Change the existing Graduate Certificate in Latin American Studies to a standalone program. Currently, the only way to do this certificate is by students in any masters or doctoral programs at SFU to fulfill the requirements. Now that we are deleting the MA in LAS, we think it is warranted that the Certificate can be completed as a standalone program, as specified in the proposed Calendar changes. SFU now has more faculty members with interests in Latin America than at any previous time, at about sixteen across several faculties. It is thus worth keeping, enhancing and promoting this Graduate Certificate in LAS, effective Summer 2019.

Sincerely,

Gerardo Otero



**Please note:**

To view the Fall 2018 Academic Calendar go to [www.sfu.ca/students/calendar/2018/fall.html](http://www.sfu.ca/students/calendar/2018/fall.html)

School for International Studies | Faculty of Arts and Social Sciences  
Simon Fraser University Calendar | Spring 2019

## Latin American Studies

### GRADUATE CERTIFICATE

This program may be of interest to those seeking certification of Latin American expertise. For information, and to be admitted, students should contact the Latin American Studies program director.

This graduate certificate program is exclusively - and only - completed during enrolment in a master's or doctoral program. Therefore, graduate certificate courses may be applied toward a master's or doctoral program. Students are not permitted to complete this graduate certificate program on its' own. Courses used to satisfy the requirements of a diploma program cannot also be used to satisfy the requirements of this graduate certificate program.

## Program Requirements

Students complete, with a minimum B grade, all of

IS 815 - Theories of Latin American Development (4)

IS 835 - Social and Political Change in Latin America (4)

a graduate research methods course

one additional Latin America related course

Students are also required to demonstrate Spanish or Portuguese language proficiency by taking a faculty administered exam, or by obtaining a B grade in an upper division Spanish or Portuguese language course.

Courses used to fulfil the requirements cannot be graded as satisfactory/unsatisfactory but instead must culminate in a letter grade.

Students enrolled in the MAIS Program who qualify for the Concentration in Latin America may not receive the Certificate in LAS.

REVISED  
CALENDAR ENTRY

## Latin American Studies

### GRADUATE CERTIFICATE

### Description of Program

This program may be of interest to those seeking certification of Latin American expertise, whether they are completing a separate masters or doctoral degree, or as a standalone program. Students commencing this certificate as a standalone program may apply to transfer into a master's program after completing 12 units. In this case, they will receive the higher degree only.

### Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In addition, a minimum GPA of 3.0 is required to apply.

Courses taken to satisfy the requirements of a diploma program cannot be applied to satisfy the requirements of this graduate certificate program. For information, and to be admitted, contact the Latin American Studies program coordinator.

### Program Requirements

This program consists of course work for a minimum of 14 units.

Students must complete the following courses with a minimum of a B grade

IS 815 - Theories of Latin American Development (4)

IS 835 - Social and Political Change in Latin America (4)

and one graduate research methods course, such as:

IS 830 - Analytic Approaches to International Studies (4)

POL 803 - Qualitative Research Methods in Political Science (5)

SA 856 - Qualitative Sociological Research Methods (5)

ECO 621 - Graduate Seminars in Research Methods (3)

GEOG 604 - Research Design and Analytical Techniques in Human Geography (5)

HSCI 841 - Qualitative Research and Analytical Methods (3)

and one of the following courses with the approval of the LAS coordinator\*

GEOG 620 - Selected Topics: Economy, Environment and Development (4)

GEOG 640 - Selected Topics in Social and Urban Geography (4)

IS 802 - Political Economy of Development (4)

IS 801 - Institutions, Politics and Development (4)

IS 809 - Special Topics (4)

HSCI 891 - Special Topics in Health Sciences (3)\*\*

\* All of the courses must have substantial Latin American content. With the approval of the LAS coordinator, a student may take an alternative course if a research paper is written on Latin America.

\*\* Students are only allowed to receive credit for HSCI 891 - Special Topics in Health Sciences: Experiential Learning in Global Migrant Health course.

REVISED  
CALENDAR ENTRY

### Program Length

Students are expected to complete the program requirements within six terms or within the time limits of their master or doctoral program.

### Other Information

#### **Second language requirements**

Students are required to demonstrate Spanish or Portuguese language proficiency by taking a faculty administered exam, or by obtaining a B grade in an upper division Spanish or Portuguese language course.

### Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

MEMO

ATTENTION: Dr. Sean Zwagerman, Associate Dean of FASS,  
Graduate Programs

FROM: Dr. Chung-hye Han, Graduate Program Chair, Linguistics

RE: Credit Unit Changes for Linguistics MA and PhD programs

DATE: Sept 20, 2018

TIME: 11:00 am

At its meeting of July 19, 2018, the Department of Linguistics approved the following curricular program change:

- ~~Credit units of LING 800, LING 801, LING 802, LING 803, LING 804, LING 805, LING 806, LING 807, LING 810, LING 811, LING 812, LING 813, LING 820, LING 821, LING 850, LING 851, LING 855, and LING 896 be changed from four to three.~~
- ~~Credit units of LING 898 and LING 899 be changed from six to ten.~~

I have submitted Graduate Course Change forms for all courses listed above, and Calendar Change forms for the MA and PhD programs in Linguistics reflecting these credit unit changes.

Please place this proposal on the agenda of the next meeting of the Faculty of Arts and Social Sciences Graduate Studies Curriculum Committee.

Thank you.



Chung-hye Han  
Professor  
Graduate Program Chair  
Department of Linguistics

**Calendar Entry Change for [Linguistics – MA Program]**

<p>Summary of change:</p> <p>Credit unit changes for graduate courses from 4 to 3, and thesis course from 6 to 10.</p>
<p>Rationale for change:</p> <p>To increase flexibility in allowing credits from courses taken from other departments, such as computing science and psychology, count towards program requirements</p>
<p>Effective term and year: Summer 2019</p>
<p>Will this change impact current students? If yes, what is the plan for current students?</p> <p>No.</p>

FROM	TO
<p><b>Program Requirements</b>                      This program consists of course work and thesis for a minimum of 30 units.</p> <p>Students must complete  <del>LING 800 – Phonology (4)</del>  <del>LING 801 – Syntax (4)</del>  <del>LING 851 – Research Techniques and Experimental Design (4)</del>                      LING 890 - Graduate Seminar I (1)*                      LING 891 - Graduate Seminar II (1)*</p> <p>three graduate courses **</p> <p>and a thesis  <del>LING 898 – MA Thesis (6)</del></p> <p>* LING 890 and LING 891 should be completed in the first year of program enrolment.                      **must be approved by the supervisor. Only one directed research course allowed.</p>	<p><b>Program Requirements</b>                      This program consists of course work and thesis for a minimum of 30 units.</p> <p>Students must complete                      LING 800 - Phonology (3)                      LING 801 - Syntax (3)                      LING 851 - Research Techniques and Experimental Design (3)                      LING 890 - Graduate Seminar I (1)*                      LING 891 - Graduate Seminar II (1)*</p> <p>three graduate courses **</p> <p>and a thesis                      LING 898 – MA Thesis (10)</p> <p>* LING 890 and LING 891 should be completed in the first year of program enrolment.                      **must be approved by the supervisor. Only one directed research course allowed.</p>



**Calendar Entry Change for [Linguistics – PhD Program]**

<p>Summary of change:</p> <p>Credit unit changes for graduate courses from 4 to 3, and thesis course from 6 to 10.</p>
<p>Rationale for change:</p> <p>To increase flexibility in allowing credits from courses taken from other departments, such as computing science and psychology, count towards program requirements</p>
<p>Effective term and year: Summer 2019</p>
<p>Will this change impact current students? If yes, what is the plan for current students?</p> <p>No.</p>

FROM	TO
<p><b>Program Requirements</b>                      This program consists of course work, two qualifying papers, and a thesis for a minimum of <del>38</del> units.</p> <p>Students must complete in the first year of enrollment                      LING 890 - Graduate Seminar I (1)                      LING 891 - Graduate Seminar II (1)</p> <p>and five graduate courses*</p> <p>and two qualifying papers                      LING 894 - Qualifying Paper I (6)                      LING 895 - Qualifying Paper II (6)</p> <p>and a thesis  <del>LING 899 - PhD Thesis (6)</del></p> <p>*must be approved by the supervisor. Only one directed research course allowed.</p>	<p><b>Program Requirements</b>                      This program consists of course work, two qualifying papers, and a thesis for a minimum of 39 units.</p> <p>Students must complete in the first year of enrollment                      LING 890 - Graduate Seminar I (1)                      LING 891 - Graduate Seminar II (1)</p> <p>and five graduate courses*</p> <p>and two qualifying papers                      LING 894 - Qualifying Paper I (6)                      LING 895 - Qualifying Paper II (6)</p> <p>and a thesis  <b>LING 899 - PhD Thesis (10)</b></p> <p>*must be approved by the supervisor. Only one directed research course allowed.</p>



Dr. Nancy Hedberg, Chair  
DEPARTMENT OF LINGUISTICS  
Faculty of Arts and Social Sciences

R. C. Brown Hall 9101  
8888 University Drive,  
Burnaby, BC, Canada V5A 1S6

TEL 778.782.3554  
FAX 778.782.5659

hedberg@sfu.ca  
[www.sfu.ca/linguistics](http://www.sfu.ca/linguistics)

MEMORANDUM

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ATTENTION Dr. Sean Zwagerman, Associate Dean of FASS, Graduate Programs      DATE October 25, 2018  
FROM Nancy Hedberg, Graduate Program Chair, GC-LFNL and MA-LFNL      PAGES 1  
RE: Course name and number changes for Graduate Certificate in the Linguistics of a First Nations Language, course-unit change for LING 804 in GC-LFNL and MA-LFNL

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Please approve calendar changes for the Graduate Certificate in the Linguistics of a First Nations Language with respect to the course numbers for the courses in the GC-LFNL. Topics courses were originally included in the proposal with the plan that they would be changed to permanent new courses when the MA-LFNL was established. The latter happened, as did the creation of the five new courses, but the calendar entry for the GC-LFNL was inadvertently not changed.

The calendar entry should permit students to select from the list of courses (LING 830, 831, 832, 833, 834, and 804).

In addition, LING 804 now should be changed from 4 to 3 units as part of a revision of course units in regular Linguistics graduate courses. This change affects the GC-LFNL and MA-LFNL.

Please place this proposal on the agenda of the next meeting of the Faculty of Arts and Social Sciences graduate Studies Curriculum Committee.

Thank you,

Graduate Program Chair, GC-LFNL, MA-LFNL  
Professor of Linguistics and Cognitive Science  
Chair, Department of Linguistics

**Calendar Entry Change for Master's in Linguistics of a First Nations Language**

<p>Summary of change: Course unit change to LING 804</p>
<p>Rationale for change: To be in line with the course units in other LING programs</p>
<p>Effective term and year: Summer 2019</p>
<p>Will this change impact current students? If yes, what is the plan for current students? No</p>

FROM	TO
<p><b>Program Requirements</b></p> <p>This program consists of course work and project or a thesis for a minimum of <del>32</del> units.</p> <p>Students must complete all of</p> <p><u>LING 804 - Field Methods (4)</u>  <u>LING 830 - Phonetics and Phonology of a First Nations Language (4)</u>  <u>LING 831 - Morphology and Syntax of a First Nations Language (4)</u>  <u>LING 832 - Narrative and Discourse Structure of a First Nations Language (4)</u>  <u>LING 833 - Socio-cultural and Cognitive Aspects of a First Nations Language (4)</u>  <u>LING 834 - Effective Pedagogies and Materials Development for First Nations Language (4)</u>  <u>LING 890 - Graduate Seminar I (1)</u>  <u>LING 891 - Graduate Seminar II (1)</u></p> <p>and project</p> <p><u>LING 893 - First Nations Linguistics MA Project (6)</u></p>	<p><b>Program Requirements</b></p> <p>This program consists of course work and project or a thesis for a minimum of <b>31</b> units.</p> <p>Students must complete all of</p> <p><b><u>LING 804 - Field Methods (3)</u></b>  <u>LING 830 - Phonetics and Phonology of a First Nations Language (4)</u>  <u>LING 831 - Morphology and Syntax of a First Nations Language (4)</u>  <u>LING 832 - Narrative and Discourse Structure of a First Nations Language (4)</u>  <u>LING 833 - Socio-cultural and Cognitive Aspects of a First Nations Language (4)</u>  <u>LING 834 - Effective Pedagogies and Materials Development for First Nations Language (4)</u>  <u>LING 890 - Graduate Seminar I (1)</u>  <u>LING 891 - Graduate Seminar II (1)</u></p> <p>and project</p> <p><u>LING 893 - First Nations Linguistics MA Project (6)</u></p>

or a thesis

LING 898 - MA Thesis (6)

or a thesis

LING 898 - MA Thesis (10)

**Calendar Entry Change for Graduate Certificate in Linguistics of a First Nations Language**

<p>Summary of change:          Course unit change in 804.          Changing Topics in Linguistic courses to their specialized course.          LING 810 to LING 830          LING 811 to LING 831          LING 812 to LING 832          LING 813 to LING 833          LING 855 to LING 834          Adding program length and reference to GGRs</p>
<p>Rationale for change:          Change in courses now permanent courses have been created for the First Nations Language program.</p>
<p>Effective term and year:          Summer 2019</p>
<p>Will this change impact current students? If yes, what is the plan for current students?          No</p>

FROM	TO
<p><b>Program Requirements</b></p> <p>Students complete at least four courses (<del>16</del> units) of approved graduate coursework on linguistic methodology, the linguistic structure of a particular language, and the sociocultural or education setting of First Nations languages. Students must achieve a 2.5 CGPA in these courses to graduate.</p> <p>Students must complete a minimum of <del>16</del> units from the following courses to be determined in consultation with their supervisory committee.</p> <p><del>LING 804 - Field Methods (4)</del>  <del>LING 810 - Topics in Linguistics I (4)</del>  <del>LING 811 - Topics in Linguistics II (4)</del></p>	<p><b>Program Requirements</b></p> <p>Students complete at least four courses (<b>15</b> units) of approved graduate coursework on linguistic methodology, the linguistic structure of a particular language, and the sociocultural or education setting of First Nations languages. Students must achieve a 2.5 CGPA in these courses to graduate.</p> <p>Students must complete a minimum of <b>15</b> units from the following courses to be determined in consultation with their supervisory committee.</p> <p><b>LING 804 - Field Methods (3)</b></p>

LING 812 - Topics in Linguistics III (4)  
LING 813 - Topics in Linguistics IV (4)  
LING 855 - Topics in Applied Linguistics (4)

LING 830 - Phonetics and Phonology of a First Nations Language (4)  
LING 831 - Morphology and Syntax of a First Nations Language (4)  
LING 832 - Narrative and Discourse Structure of a First Nations Language (4)  
LING 833 - Socio-cultural and Cognitive Aspects of a First Nations Language (4)  
LING 834 - Effective Pedagogies and Materials Development for First Nations Languages (4)

## **Program Length**

Students are expected to complete the program requirements in three terms.

## **Academic Requirements within the Graduate General Regulations**

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.



**BEEDIE SCHOOL  
OF BUSINESS**

Segal Graduate School

Office of the Associate Dean  
500 Granville Street  
Vancouver, BC V6C 1W6

TEL 778.782.9255  
FAX 778.782.5122

busadmin@sfu.ca

Memo to SGSC

To: Senate Graduate Studies Committee  
From: Andrew Gemino, Associate Dean, Graduate Programs  
Re: Curriculum revisions to Executive MBA, MBA, MSc Fin, PhD  
Date: October 17, 2018

The following curriculum revisions have been approved by the Beedie School of Business and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for *Summer 2019*.

Please include them on the next SGSC agenda.

~~Course changes:~~

- ~~○ BUS 615: Title, Description, and Equivalency Change~~
- ~~○ BUS 728: Title and Description Change~~
- ~~○ BUS 880: Title Change~~
- ~~○ BUS 990: Description Change~~
- Other:
  - GCSTC calendar undated to new APR template (no program changes made)

Thank you for your attention herein. Should you have any questions or concerns, please do not hesitate to contact me.

---

Dr. Andrew Gemino  
Professor, Management Information Systems  
Associate Dean, Graduate Programs, Beedie School of Business



**Please note:**

To view the Fall 2018 Academic Calendar go to [www.sfu.ca/students/calendar/2018/fall.html](http://www.sfu.ca/students/calendar/2018/fall.html)

Business | Beedie School of Business  
Simon Fraser University Calendar | Spring 2019

## Science and Technology Commercialization

### GRADUATE CERTIFICATE

This program provides commercialization knowledge for research scientists during their PhD programs in order to commercialize their work and prepare them to work as agents of commercialization in industry.

Applicants should also refer to the program website located at <http://beedie.sfu.ca/commercialization-certificate>.

Students study part-time over three semesters. The program consists of three part-time semesters.

## Admission Requirements

Admission is based on the following criteria:

- either a current graduate student, post-doc, or faculty member at SFU or UBC, or a recent graduate of SFU and UBC graduate programs in science, engineering, health or environmental sciences.
- a letter of reference from their supervisor or someone on their supervisory committee. In the case of a faculty member, a letter of reference from a colleague is fine
- resume
- official grad student transcripts
- brief description of experience in research and development
- interview (short listed candidates only)

## Program Requirements

Students in the GCSTC program must maintain a 2.5 grade point average and are required to complete the following courses:

- BUS 790 - Lab to Market (2)
- BUS 791 - Opportunity Identification and Assessment (2)
- BUS 792 - Financial Literacy for Entrepreneurs (2)



**BUS 793 - Business Models (2)**

**BUS 794 - Leadership and Managing Teams (2)**

**BUS 795 - Financing the New Venture (2)**

**BUS 796 - Business Plan I (2)**

**BUS 797 - Business Plan II (2)**

## **Academic Requirements within the Graduate General Regulations**

**All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.**

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REVISED  
CALENDAR ENTRY

## Science and Technology Commercialization

### GRADUATE CERTIFICATE

The science and technology commercialization graduate certificate provides commercialization knowledge for research scientists during their PhD programs in order to commercialize their work and prepare them to work as agents of commercialization in industry.

Applicants should also refer to the program website <http://beedie.sfu.ca/commercialization-certificate>

### Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. This program is open to the following applicants: current graduate students, post-docs, faculty members at SFU or UBC, and recent graduates of an SFU or UBC graduate program in science, engineering, health, or environmental sciences.

### Program Requirements

This program consists of course requirements for a minimum of 16 units.

Students complete all of

- BUS 790 - Lab to Market (2)
- BUS 791 - Opportunity Identification and Assessment (2)
- BUS 792 - Financial Literacy for Entrepreneurs (2)
- BUS 793 - Business Models (2)
- BUS 794 - Leadership and Managing Teams (2)
- BUS 795 - Financing the New Venture (2)
- BUS 796 - Business Plan I (2)
- BUS 797 - Business Plan II (2)

### Program Length

Students are expected to complete the program requirements in three terms.

### Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

**To:** Dr. Jeff Derksen, Dean of Graduate Studies / Chair of SGSC  
**From:** Dr. Dongya Yang, Chair, Faculty of Environment Graduate Studies Committee  
**cc:** Dr. Sean Markey, Chair, REM Graduate Program Committee  
**Date:** Oct. 16, 2018  
**Re:** New course REM 898 Ph.D. Comprehensive Exam  
Calendar Entry Changes for three REM graduate programs

---

The Faculty of Environment Graduate Studies Committee has approved the proposals from the School of Resource and Environmental Management (REM) ~~to create a new course REM 898 Comprehensive Exam, and to change calendar entry for REM's MRM thesis stream, MRM planning, and REM Ph.D.~~ Please add them to the agenda of the next SGSC meeting.

Should you have any questions or concerns, please feel free to contact.



---

Dongya Yang, Ph.D., Professor  
Associate Dean of Research and Graduate Studies

Note: MRM is for Master of Resource Management.



TO: Dongya, Yang, Associate Dean, Faculty of Environment  
FROM: Sean Markey, REM GSC Chair  
RE: New Graduate Courses  
DATE: October 30, 2018

---

Dear Dongya,

Attached, please find the ~~new course form for our Comprehensive Exam (REM 898).~~

Also included, please find minor calendar clean-ups for REM (Planning) and the REM PhD - part of GPS' initiative to review calendar accuracy, consistency.

Thank you for presenting to the Faculty Graduate Committee and beyond.

Best,

Sean Markey  
REM GSC Chair



**Please note:**

To view the Fall 2018 Academic Calendar go to [www.sfu.ca/students/calendar/2018/fall.html](http://www.sfu.ca/students/calendar/2018/fall.html)

School of Resource and Environmental Management  
Simon Fraser University Calendar | Spring 2019

## Resource and Environmental Management

### MASTER OF RESOURCE MANAGEMENT (PLANNING)

Students who successfully complete this program will be awarded the degree of master of resource management (planning).

In Canada, this planning stream program is distinctive because of its focus on the policy, economic and environmental science aspects of natural resource and environmental planning.

The program is accredited by the Canadian Institute of Planners and the Planning Institute of British Columbia. An MRM (Planning) graduate is eligible for candidate membership to become a certified professional planner and may enjoy improved employment prospects, conference and workshop participation, and access to professional development programs.

## Admission Requirements

Refer to the graduate general regulations for admission requirements. Contact the School of Resource and Environmental Management directly for more information ([reinfo@sfu.ca](mailto:reinfo@sfu.ca)). Those with degree qualifications in fields not directly related but with extensive experience in resource management are encouraged to apply.

Applicants will vary in their preparation for the various disciplines in the school. Therefore, admission to the school might be conditional upon the completion of certain undergraduate courses. Detailed application information can be found on the department's website: <http://www.sfu.ca/rem/prospective-students/apply.html>.

Application deadline: January 25.

## Program Requirements

Students complete an introductory field course [REM 698], nine additional required courses, and a major written research project [REM 699]. The research project must be presented and defended at an oral defense. In addition, students complete one graduate elective course. A minimum of 57 units is required, consisting of 54 required units and three elective units. In exceptional cases, if a student provides evidence of advanced education that is equivalent to one of the required courses, a waiver may be granted for that course, thereby reducing the number of required courses by one.

## Prerequisite Courses

Students must be familiar with the material covered in an undergraduate course in parametric and nonparametric statistics.

## **Required Courses**

Students complete a total of 54 units, including all of

- REM 601 - Social Science of Natural Resources Management (5)
- REM 602 - Professional Planning Practice: Advanced Seminar (5)
- REM 611 - Population and Community Ecology (5)
- REM 621 - Ecological Economics (5)
- REM 631 - Earth Systems and Global Change in Environmental Management (5)
- REM 641 - Environmental and Planning Law (5)
- REM 642 - Sustainable Community Planning and Regional Development (5)
- REM 643 - Environmental Conflict and Dispute Resolution (5)
- REM 698 - Field Resource Management Workshop (3)
- REM 699 - Research Project (6)
- REM 801 - Principles of Research Methods (5)

## **Elective Courses**

Students choose one graduate course (minimum three units) as an elective to support and complement their particular research interests. Students may, in consultation with their senior supervisor, select a REM course or another graduate course.

## **Academic Requirements within the Graduate General Regulations**

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

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REVISED  
CALENDAR ENTRY

## **Resource Management (Planning)**

MASTER OF RESOURCE MANAGEMENT (PLANNING)

### **Description of Program**

The master of resource management (planning) program is distinctive in Canada because of its focus on the policy, economic, and environmental science aspects of natural resource and environmental planning. The program is accredited by the Canadian Institute of Planners (CIP) and the Planning Institute of British Columbia. An MRM (Planning) graduate is eligible for candidate membership to become a certified professional planner and may enjoy improved employment prospects, conference and workshop participation, and access to professional development programs.

### **Admission Requirements**

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Those with degree qualifications in fields not directly related but with extensive experience in resource management are encouraged to apply.

Applicants will vary in their preparation for the various disciplines in the school. Students must be familiar with the material covered in an undergraduate course in parametric and non-parametric statistics. Detailed application information, including the application deadline, can be found on the department's website: <http://www.sfu.ca/rem/prospective-students/apply.html>.

### **Program Requirements**

This program consists of required courses, an elective course, and a research project for a minimum of 57 units.

Students complete the following courses

- REM 601 - Social Science of Natural Resources Management (5)
- REM 602 - Natural Resource Management II: Advanced Seminar (5)
- REM 611 - Population and Community Ecology (5)
- REM 621 - Ecological Economics (5)
- REM 631 - Earth Systems and Global Change in Environmental Management (5)
- REM 641 - Law and Resources (5)
- REM 642 - Sustainable Community Planning and Regional Development (5)
- REM 643 - Environmental Conflict and Dispute Resolution (5)
- REM 698 - Field Resource Management Workshop (3)
- REM 801 - Principles of Research Methods (5)

and a minimum of three elective graduate units in consultation with the senior supervisor

and a research project

- REM 699 - Research Project (6)

### **Program Length**

Students are expected to complete the program requirements in nine terms.

REVISED  
CALENDAR ENTRY

## Other Information

### **Course Exemption**

In exceptional cases, if a student provides evidence of advanced education that is equivalent to one of the required courses, an exemption may be granted for that course, thereby reducing the number of required courses by one. If a student receives a course exemption, the student is not required to replace the course for which the exemption was received.

### **Research Project**

The research project must be presented and defended at an oral examination. The project is examined by the supervisory committee and upon successful completion must be submitted to the library.

## Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.





FACULTY OF  
HEALTH SCIENCES

Education Programs Blusson Hall 10704  
8888 University Drive  
Burnaby, BC V5A 1S6

TEL 778.782.3071  
FAX 778.782.5927

tvb@sfu.ca  
www.fhs.sfu.ca

**MEMORANDUM**

---

ATTENTION Senate Graduate Studies Committee  
FROM Timothy Beischlag, Director, Graduate Programs  
RE: HSCI Graduate Course Changes

DATE May 3, 2018  
PAGES 1/5

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The attached course and program changes have been approved by the Faculty of Health Sciences and are forwarded to the Senate Graduate Studies Committee for approval. These changes should be effective Spring 2019. Please include them on the next SGSC agenda.

Summer

- ~~1. HSCI 990 graduate course change~~
- ~~2. HSCI 998 graduate course deletion~~
3. HSCI FHS program change to remove HSCI 998 from the PhD requirements

Sincerely,

Timothy Beischlag  
Director, Graduate Programs

**Calendar Entry Change for Doctoral of Philosophy in Health Sciences**

Summary of change: Removal of HSCI 998
Rationale for change: HSCI 990 was the thesis research course, which students completed prior to enrolling in HSCI 998 PhD Thesis Preparation and Defence. Instead of having two courses it has been decided for clarity that students will only enroll in HSCI 990 which aligns with current practice with other academic units offering these options.
Effective term and year: <del>Spring</del> 2019
Will this change impact current students? If yes, what is the plan for current students? No.

FROM	TO
<p>Program Requirements</p> <p>This program consists of course work, a comprehensive exam and thesis proposal, research, and a thesis for a minimum of 24 units.</p> <p>Students must complete all of                      HSCI902 - Interdisciplinary Seminar in Health Sciences I (3)                      HSCI903 - Interdisciplinary Seminar in Health Sciences II (3)</p> <p>and a comprehensive exam and thesis proposal                      HSCI 983 - Comprehensive Exam and Thesis Proposal (6)</p> <p>and thesis research                      HSCI 990 - Thesis Research (6)</p> <p>and a thesis                      HSCI 998 - PhD Thesis Preparation and Defence (6)</p>	<p>Program Requirements</p> <p>This program consists of course work, a comprehensive exam and thesis proposal, research, and a thesis for a minimum of 24 units.</p> <p>Students must complete all of                      HSCI902 - Interdisciplinary Seminar in Health Sciences I (3)                      HSCI903 - Interdisciplinary Seminar in Health Sciences II (3)</p> <p>and a comprehensive exam and thesis proposal                      HSCI 983 - Comprehensive Exam and Thesis Proposal (6)</p> <p>and thesis                      HSCI 990 - PhD Thesis (12)</p> <p>and a thesis                      HSCI 998 - PhD Thesis Preparation and Defence (6)</p>

SFU

MEMO

Faculty of Science

ATTENTION Dr. Jeff Derksen, Dean, Graduate and Postdoctoral Studies

FROM Carl Lowenberger, Associate Dean, Faculty of Science

RE New Accelerated Master's Program in Mathematics

DATE September 26, 2018

TIME 2:37 PM

Dear Jeff

The graduate program in the Department of Mathematics seeks to establish an Accelerated Master's program in Mathematics. This will be a low enrollment program but will enhance the ability of exceptional students to move quickly and seamlessly from their undergraduate to graduate level studies.

This proposal has approved by the Faculty of Science Graduate Studies committee, and I will be seeking comments from other Faculties.



---

Carl Lowenberger

SFU

MEMO

Faculty of Science

**ATTENTION** Dr. Jeff Derksen, Dean, Graduate and Postdoctoral Studies

**FROM** Carl Lowenberger, Associate Dean, Faculty of Science

**RE** Calendar Changes for the Physics MSc and PhD programs

**DATE** October 23, 2018

TIME 9:06 AM

Dear Jeff

I am submitting the paperwork that addresses calendar changes to the MSc and PhD programs in the Department of Physics. These are, essentially, editorial changes.

This proposal has approved by me and by the Faculty of Science Graduate Studies committee.

Sincerely



---

Carl Lowenberger  
Associate Dean-Research (Acting)  
Faculty of Science

**To:** Carl Lowenberger, Chair, Faculty Grad Studies Committee  
**From:** Steven Ruuth, Chair, Mathematics Grad Studies Committee  
**Date:** Sept 27, 2018  
**Subject:** Approval of accelerated Masters at Dept Level

The Mathematics Grad Studies Committee has recently developed a plan for an accelerated Master's program.

On July 17, 2018, the Department of Mathematics voted and approved the plan for the accelerated Masters program.

To proceed to the next step in the approval process, I am now sending it to you, as Chair of the Faculty Grad Studies Committee.

Sincerely,

A handwritten signature in cursive script that reads "Steve Ruuth".

Steven Ruuth,  
Chair, Mathematics GSC, SFU

## Proposal for an Accelerated Master's Program

General admission requirements and guidelines for accelerated master's can be found here: <https://www.sfu.ca/dean-gradstudies/future/academicprograms/AcceleratedMasters.html>

1. Faculty/Department/School  
Science/ Mathematics

2. Degree programs (undergraduate and graduate)  
Undergraduate: BSc (Mathematics, Applied Math, Operations Research, Mathematics and Computing Science, Mathematical Physics)  
Graduate: MSc (Pure Math, Applied Mathematics, Operations Research)

3. Proposed date of implementation  
First cohort to start in Fall 2019

4. Rationale  
The goal of Mathematics Accelerated Master's Program is to provide exceptional students a seamless transition into a Master's degree. The Accelerated Master's allows undergraduate students to take graduate level courses and apply these to their both their undergraduate and graduate course requirements. This shortens the total time spent earning the degrees. We expect that this will entice some of our extremely strong undergraduates to pursue higher studies at SFU.

5. Projected enrolment/Student demand  
1 - 3 students annually

6. Advising structure for students

The initial consultations are with the Department of Mathematics undergraduate advisor. The Mathematics Graduate Studies Committee (GSC) approves entrance into the program. The graduate administrative assistant can offer support for matters related to their application to the graduate program.

7. Capacity to provide financial and supervisory support to students, once their bachelor's degree is complete, based on the estimated number of students being concurrently admitted to an accelerated master's programs.

The student will be offered a funding package in line with our other graduate admissions. A typical Master's offer in our department provides on average \$7000 per term in a mix of funding from TAsip, RAships, graduate fellowships, and scholarships.

8. Admission requirements in addition to the minimum SFU requirements

Students enrolled in a BSc (Math) are qualified to be admitted into the accelerated program once they have satisfactorily completed at least 90 credits of undergraduate course work with a CGPA of at least 3.67/4.33. Students interested in applying for the Accelerated Master's program should discuss their eligibility for the program with the undergraduate advisor and, if appropriate, obtain an application form from their undergraduate advisor.

9. Specific time-lines (e.g. when undergraduates may apply; when each of the milestones must be accomplished; expected completion)

SFU Mathematics majors students who meet all of the admission requirements are encouraged to apply, normally towards the end of the third year or during the fourth year in their degree. Acceptance into the Master's program follow the same timelines and process as regular graduate admission. The online application opens annually in October 1, and the deadline to apply is the following January 15.

Students are assigned an advisor when admitted into the program; in most cases, it is expected that the student will continue working with and complete their MSc thesis under the direction of this advisor when the supervisory committee is formed.

Students are expected to complete the BSc, and up to 10 units of their MSc coursework, in the final year of the BSc. Once the BSc degree is completed, students become graduate students and are then eligible to apply for graduate awards. Students are expected to complete the MSc requirements in 5 terms.

Although there is no limit on the number of graduate units an undergraduate student can take for credit toward their undergraduate degree (as long as the student is approved by the department to take the graduate courses for credit), students will only be eligible to use a maximum of 10 graduate units, taken during their undergraduate degree, towards the graduate program.

Some upper division MATH courses are cross-listed as both 400 and 700-level courses. If students wish to apply the courses for graduate credit they must enrol, and complete, the 700-level version of the course. The 700-level courses involve requirements beyond the 400-level offering.

### **Typical Schedule**

Penultimate year of BSc/ 90 completed credits

Students apply for the graduate program. This application will be reviewed by the Mathematics Graduate Studies Committee. If the student is recommended for the program, they will be offered conditional admission to the MSc and will be offered some guidance on how to plan their program including course choices and research initiation.

Final year of BSc

The student takes graduate courses during their undergraduate program and will have their tuition manually adjusted to be the graduate per unit fee for up to ten units. The student completes undergraduate program.

Year 1 of MSc

Students starts the MSc receiving the ten units of graduate courses taken as advanced credit. Students then complete the remaining required graduate coursework, and advance their research. The Annual Progress Report will confirm the suitability of the student for the program.

 Year 2 of MSc: Thesis must be defended within the first two terms of the second year.

10. Description of any proposed changes to existing programs (e.g. undergraduate courses that cannot be substituted by graduate courses; graduate courses that cannot be used towards





## **Appendix A: Proposed Calendar Text**

The following calendar text will be added at the end of the upper division program requirements for the undergraduate program, and after the program requirements for the graduate program.

Calendar Text:

NOTE: SFU students enrolled in the Accelerated master's degree program within the Department of Mathematics may apply a maximum of 10 graduate course units, taken while completing the bachelor's degree, towards the upper division undergraduate electives of the bachelor's program and the requirements of the master's degree. For more information go to:

<https://www.sfu.ca/deangradstudies/future/academicprograms/AcceleratedMasters.html>

## **Appendix B: Accelerated Master's programs at other institutions**

Provide information on other concurrent degree programs within same academic area at other institutions.

### **1. University of Waterloo, Department of Combinatorics and Optimization.**

<https://uwaterloo.ca/graduate-studies-academic-calendar/mathematics/department-combinatorics-and-optimization/accelerated-masters-program-combinatorics-and-optimization>

The program information below is valid for the spring 2018 term (May 1, 2018 - August 31, 2018).

The Graduate Studies Academic Calendar is updated 3 times per year, at the start of each academic term (January 1, May 1, September 1). Graduate Studies Academic Calendars from previous terms can be found in the [archives](#).

The Accelerated Master's Program is available to qualified undergraduate students at the University of Waterloo who wish to begin graduate studies while still an undergraduate. This program offers the student several advantages:

The time spent in the Master of Mathematics (MMath) in Combinatorics and Optimization program can be reduced by up to one term.

The student can fill empty slots in his/her fourth year with more advanced courses or a cutting-edge research project.

The student does not have to worry throughout fourth year about post-graduation plans since admission decisions to the accelerated MMath in Combinatorics and Optimization program are typically made before the 4th year begins.

The degree requirements are the same as for the regular MMath in Combinatorics and Optimization program.

The program does not allow double-counting of courses for both undergraduate and graduate degree requirements, but it does allow students to take Bachelor of Mathematics (BMath) and MMath courses concurrently.

The co-op option is also available for this program.

Students must meet the following admission criteria:

- Major in Combinatorics and Optimization or related field.
- Average of at least 85% in all math courses.
- Have completed 3B term.
- Students interested in the program should apply using the online web form and should include the following information in the Supplementary Information Form (part of the application):
  - A clear statement that this application is for the accelerated MMath program.
  - A detailed list of remaining requirements for BMath completion as well as a timetable for when these requirements are expected to be met.
  - Students should include at least three letters of recommendation as part of their application for MMath admission. No test scores are required.

## **2. University of Waterloo, Department of Statistics.**

The program information below is valid for the spring 2018 term (May 1, 2018 - August 31, 2018).

The Graduate Studies Academic Calendar is updated 3 times per year, at the start of each academic term (January 1, May 1, September 1). Graduate Studies Academic Calendars from previous terms can be found in the archives.

The Accelerated Master's Program is designed for students who have demonstrated a strong performance by the time they have completed the four required third year Statistics courses, and who are interested in going to a graduate program. The intention is to allow such students to take two graduate level courses, either STAT 4xx/8xx at the 8xx level or STAT 9xx courses, in their fourth year. These courses do not count towards their undergraduate degree which will continue to require 40 courses, but do count towards their Master's degree. Students could, for example, take one or two extra undergraduate courses during work terms, while doing Undergraduate Student Research Assistantships, or by taking six courses in a term. In total, these students will need to complete at least 42 courses by the end of their 4B term, two of which are either the 8xx versions of STAT 4xx/8xx courses or STAT 9xx courses.

Students in the program should be strong candidates for NSERC or OGS funding and would be encouraged to apply.

### **Admission requirements**

Students will be admitted to the Accelerated Master's Program normally in their third year, but no later than their 4A term. Admission requirements for the Accelerated Master's program in

Statistics include:

A completed application form.

A Minimum Major Average (MAV)  $\geq 85\%$ .

Completion of Stat 330, Stat 331, Stat 332, Stat 333 with no grade  $< 75\%$ .

Three letters of reference.

A plan of study for the remainder of their undergraduate program that includes the STAT 4xx/8xx or STAT 9xx courses to be taken before completion of their undergraduate degree. This plan must be approved by the Associate Chair Undergraduate Studies and the Associate Chair Graduate Studies. Normally, a supervisor for an Accelerated Master's students will be assigned at the time the student is admitted.

### **Continuing to Graduate School**

To continue in a Master of Mathematics in Statistics program, students admitted to the Accelerated Master's of Mathematics program in Statistics must:

#### **Complete an Honours Mathematics Degree.**

Continue to the Master of Mathematics in Statistics program in the term following the completion of their undergraduate degree. With permission of the Chair of Graduate Studies, a student may defer the start of the Master's program for one academic term.

Obtain credit according to graduate course requirements for at least one STAT 8xx or STAT 9xx course during their undergraduate degree. Credit for STAT 8xx or STAT 9xx courses taken during their undergraduate degree will count towards their Master's degree providing all the regular requirements for graduate level courses are met. Students who fail to complete at least one STAT 8xx or STAT 9xx course during their undergraduate degree may have their offer of admission to the relevant Master's program revoked. Continuation in the Master's program is subject to the conditions that apply to the relevant Master's program in the Department of Statistics and Actuarial Science.

### **Graduation from the Master's program**

Students must meet all degree requirements for the relevant Master's program.

## **3. McGill University Department of Mathematics and Statistics**

### **B.Sc/M.Sc (Thesis) track**

**[www.mcgill.ca/science/student/bsc-msc](http://www.mcgill.ca/science/student/bsc-msc)**

This is an option designed in the first place for students who complete an honours program in our Department, with the intention that they should be able to complete a strong masters program within one year. Students from other universities may also be eligible for such an accelerated stream (see the remark at the end of the document for further details).

This option is open to students who

- have taken at least 3 graduate level courses in mathematics or statistics at the 500 level as undergraduates;

- have clearly demonstrated their academic excellence (normally by a GPA above 3.75)
- have shown strong evidence of research potential (generally through their work on a summer or undergraduate research project);
- will enter our program with a clear plan for their master's thesis research and a formal commitment from a faculty member to supervise and, if necessary, provide financial support.

For McGill students conditional admission to this variant of the masters programs can be given at any time after the completion of U2, but should normally be considered on entering U3 to ensure an appropriate selection of courses. Formal admission will be part of the regular admissions process to the masters' degrees.

Students admitted to this stream of the masters programs have a course requirement of 4 (instead of 6) courses of at least 3 credits each. Together with the courses taken as undergraduates their choice of courses should cover the full syllabus for Part A of the comprehensive examinations in Pure Mathematics, Applied Mathematics or Probability & Statistics.

In order to fulfill the credit requirements for the master's programs students will have to register for MATH 602 (Master's Research Preparation).

To satisfy residency requirements students will have to be registered for and pay for 3 successive terms in the masters program. In order to complete the program in 1 year, thesis work will normally be completed in the summer following the completion of their course work.

Students admitted to this accelerated stream are normally expected to complete the program within 3 successive full time terms, typically Fall, Winter and Summer. They should not count on being funded beyond that period.

### **Students from other Universities**

Students from universities other than McGill may qualify for admission to an accelerated stream governed by the same rules and criteria as outlined above. The equivalence of courses taken elsewhere to our 500 level courses will be determined by the Graduate Program Director in consultation with instructors of similar courses at McGill and will require the student to provide extensive information in the form of course descriptions, assignments and examinations.



SIMON FRASER UNIVERSITY  
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TEL +1 778 782 4826  
FAX +1 778 782 3592

Simon Fraser University  
Department of Physics  
8888 University Drive  
Burnaby BC  
Canada V5A 1S6

June 12, 2018

Dear Peter,

Please find attached the calendar entries for the Physics M.Sc and Ph.D programs. These have been updated in response to requests from Graduate and Postdoctoral Studies as part of the APR project. There have been no major revisions, just minor editorial updates. I am requesting that you approve these edits under your delegated authority for the next Senate Graduate Studies Committee meeting in July 2018.

Yours sincerely,

A handwritten signature in black ink that reads 'MP Kennett'. The signature is written in a cursive style with a large, sweeping flourish over the 'K'.

Malcolm Kennett

Associate Professor and Graduate Chair  
Department of Physics  
Simon Fraser University



SIMON FRASER UNIVERSITY  
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STUDENT SERVICES  
Fall Calendar

**Please note:**

To view the Summer 2018 Academic Calendar go to <http://www.sfu.ca/students/calendar/2018/summer.html>

Department of Physics | Faculty of Science  
Simon Fraser University Calendar | Fall 2018

## Physics

MASTER OF SCIENCE

### Admission Requirements

A bachelor's degree in physics or a related subject, including advanced undergraduate coursework in quantum mechanics, electromagnetism and statistical mechanics is required. Applicants whose primary language is not English must submit English proficiency examination results that meet the University minimum requirements for graduate admission, as per Graduate General Regulation 1.3.12.

### Program Requirements

#### Course Requirements

The minimum requirement is the completion of 15 graduate units including all of

PHYS 801 - Student Seminar (1)

PHYS 802 - Introduction to Graduate Studies: Research and Teaching in Physics (2)

and at least one of

PHYS 810 - Advanced Quantum Mechanics (3)

PHYS 821 - Advanced Electromagnetism I (3)

PHYS 841 - Statistical Mechanics (3)

Additional courses beyond the minimum of 15 graduate units may be required by a student's supervisory committee, subject to graduate program committee approval. Students are strongly advised to consult the Physics Department web site and with potential supervisors before choosing MSc courses. Also, students who intend to pursue a PhD in Physics after completing the MSc are advised to review the PhD course requirements.

#### Research and Thesis Requirements

Students are expected to develop the skills necessary to perform independent research through participation in supervised original research. A thesis that demonstrates these skills is submitted and defended at the program's conclusion.

## Academic Requirements within the Graduate General Regulations

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

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REVISED  
CALENDAR ENTRY

## Physics

### MASTER OF SCIENCE

### Description of Program

The MSc program in the Department of Physics provides opportunities for students to undertake advanced research in Physics. Students will be exposed to fundamental and applied research in both theoretical and experimental physics. Interdisciplinary research is also possible. Through a combination of coursework and a research-based thesis, students will gain skills necessary to pursue PhD research or careers in Physics or related disciplines.

### Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. A bachelor's degree in physics or a related subject, including advanced undergraduate coursework in quantum mechanics, electromagnetism, and statistical mechanics is required.

### Program Requirements

This program consists of required courses, elective courses, and a thesis for a minimum of 33 units. Additional courses may be required by a student's supervisory committee, subject to graduate program committee approval. Students are strongly advised to consult the Physics Department website and with potential supervisors before choosing MSc courses.

Students must complete all of

PHYS 801 - Student Seminar (1)

PHYS 802 - Introduction to Graduate Studies: Research and Teaching in Physics (2)

and 12 other graduate units in coursework with at least one of the following core courses

PHYS 810 - Advanced Quantum Mechanics (3)

PHYS 821 - Advanced Electromagnetism I (3)

PHYS 822 - Advanced Electromagnetism II (3)

PHYS 841 - Statistical Mechanics (3)

and a thesis

PHYS 898 - MSc Thesis (18)

### Other Information

#### Research and Thesis requirements

Students are expected to develop the skills necessary to perform independent research through participation in supervised original research. A thesis that demonstrates these skills is submitted and defended at the program's conclusion.

### Program Length

Students are expected to complete the program requirements in six terms (two years).



REVISED  
CALENDAR ENTRY

**Academic Requirements within the Graduate General Regulations**

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.



SIMON FRASER UNIVERSITY  
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STUDENT SERVICES  
Fall Calendar

**Please note:**

To view the Summer 2018 Academic Calendar go to <http://www.sfu.ca/students/calendar/2018/summer.html>

Department of Physics | Faculty of Science  
Simon Fraser University Calendar | Fall 2018

## Physics

DOCTOR OF PHILOSOPHY

### Admission Requirements

A master's degree, or the equivalent, in physics, or the equivalent is required. Applicants whose primary language is not English must submit English proficiency examination results that meet the University minimum requirements for graduate admission, as per Graduate General Regulation 1.3.12.

Students who have demonstrated strong academic and research performance may transfer directly from the Master's program to the doctoral program, with the approval of the student's supervisory committee. See also the Graduate General Regulations on University transfer requirements.

### Program Requirements

#### OVERALL REQUIREMENTS

1. PhD students must demonstrate the ability to perform and disseminate independent research that makes a significant, publishable contribution to knowledge in the discipline.
2. PhD students must demonstrate the following disciplinary knowledge:
  - mastery of the core subjects in physics, which include classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics;
  - mastery of more specialized topics related to one's research topic; and
  - breadth of knowledge in physics at an advanced level.

### Course Requirements

The minimum course requirements for the Physics PhD program are determined on an individual basis. Upon admission, the graduate program committee will review a student's previous coursework and set minimum requirements according to the guidelines provided below. In exceptional circumstances, the graduate program committee may allow the student to proceed without additional course work over and above that for a master's degree. With the approval of the graduate program committee, the supervisory committee may also require additional coursework beyond those specified at admission to the PhD program.

## **PHD COURSE REQUIREMENT GUIDELINES**

For a student entering the PhD program after completing an MSc in Physics at SFU, the minimum course requirement is 9 additional graduate units, which will include any of the following core courses that were not completed previously:

### **CORE PROFESSIONAL SKILLS**

PHYS 801 - Student Seminar (1)

PHYS 802 - Introduction to Graduate Studies: Research and Teaching in Physics (2)

### **CORE PHYSICS CONTENT**

PHYS 810 - Advanced Quantum Mechanics (3)

PHYS 821 - Advanced Electromagnetism I (3)

PHYS 841 - Statistical Mechanics (3)

Graduate units beyond the 15 units required for the MSc may be transferred to the PhD, subject to the approval of the graduate program committee. For example, a student who has completed 18 graduate units during the MSc program at SFU will typically be required to complete 6 units in the PhD program.

For a student entering the PhD program directly from another institution, the graduate program committee will award credit for equivalent coursework upon admission. No equivalent credit will be given for the two core professional skills courses, and an award of equivalent credit for any of the three core physics content courses may require further approval after the student has begun the program. The minimum PhD course requirements will then be set as for a student entering with an MSc in Physics from SFU. For example, a student who has completed six one-semester graduate courses in physics would typically be awarded 18 units of equivalent graduate course credit, so that the minimum PhD requirement would be 6 additional graduate units, including any core courses that were not completed previously.

## **Research and Thesis Requirements**

A major portion of this program is conducting original research. A thesis, embodying new and important results or original research, must be presented and defended at the conclusion of the degree program.

## **Academic Requirements within the Graduate General Regulations**

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.

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REVISED  
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## Physics

DOCTOR OF PHILOSOPHY

### Description of Program

The PhD program in the Department of Physics provides the opportunity to pursue advanced studies that culminates in original research in Physics. Students will do both coursework and a research-based thesis. A PhD in Physics provides students with expertise necessary to develop their own independent research program for careers in academia, government or industry.

### Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. A master's degree in Physics, or the equivalent, is required. Students who are in the MSc program in Physics and have demonstrated strong academic and research performance may transfer to the doctoral program, with the approval of the student's supervisory committee. Also see the Graduate General Regulations on University transfer requirements.

### Program Requirements

This program consists of course work and a thesis for a minimum of 30 units. The minimum course requirements for the Physics PhD program are determined on an individual basis. Upon admission, the graduate program committee will review a student's previous coursework and set minimum requirements according to the guidelines provided below. For students with MSc degrees not from SFU, the graduate program committee will award credit for equivalent coursework.

The Physics department requires that students complete a combined total of 24 units of coursework during the master's and PhD programs.

Students must complete

PHYS 801 - Student Seminar (1)

PHYS 802 - Introduction to Graduate Studies: Research and Teaching in Physics (2)

PHYS 810 - Advanced Quantum Mechanics (3)

PHYS 841 - Statistical Mechanics (3)

and one of

PHYS 821 - Advanced Electromagnetism I (3)

PHYS 822 - Advanced Electromagnetism II (3)

and 12 other units of graduate courses

and a thesis

PHYS 899 - PhD Thesis (6)

### Other

#### Research and Thesis Requirements

A major portion of this program is conducting original research. A thesis, embodying new and important results or original research, must be presented and defended at the conclusion of the degree program.

REVISED  
CALENDAR ENTRY

**Overall Requirements**

1. PhD students must demonstrate the ability to perform and disseminate independent research that makes a significant, publishable contribution to knowledge in the discipline.
2. PhD students must demonstrate the following disciplinary knowledge:
  - mastery of the core subjects in physics, which include classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics;
  - mastery of more specialized topics related to one's research topic;
  - and breadth of knowledge in physics at an advanced level.

**Program Length**

Students are expected to complete the program requirements within 12 terms (four years) after completing an MSc, or 15 terms (five years) after completing a BSc for students who transfer directly after one year from the MSc to the PhD program.

**Academic Requirements within the Graduate General Regulations**

All graduate students must satisfy the academic requirements that are specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.