SENATE OF SIMON FRASER UNIVERSITY
AGENDA – OPEN SESSION

Monday, July 10, 2017 – 5:30 pm
Room 3210 West Mall Complex

1. Approval of the Agenda

2. Approval of the Minutes of the Open Session on May 15, 2017

3. Approval of the Minutes of the Open Session on June 5, 2017

4. Business Arising from the Minutes

5. Report of the Chair

6. Question Period *

7. Invited Presenter: Jane Pulkingham, Dean – Faculty of Arts and Social Sciences

8. Reports of Committees

   A) Senate Committee on Agenda and Rules (SCAR)
      i) Membership Revision to Senate Graduate Studies Committee S.17-73

   B) Senate Committee on University Priorities (SCUP)
      i) Full Program Proposal for the Certificate in Biological Anthropology S.17-74

   C) Senate Committee on Undergraduate Studies (SCUS)
      i) Course Changes (For Information) S.17-75
      ii) New Course Proposals (For Information) S.17-76
      iii) Program Changes (For Information) S.17-77

   D) Senate Graduate Studies Committee
      i) Course Changes (For Information) S.17-78
      ii) New Course Proposals (For Information) S.17-79
      iii) Program Changes (For Information) S.17-80
      iv) Graduate General Regulation (GGR) Revisions S.17-81
         GGR 1.4.3 Continuity of Enrollment
         GGR 1.4.6 Course Audit
         GGR 1.4.9 Readmission
         GGR 1.5.1 Normal Grading System
         GGR 1.5.6 FD Notation
E) Senate Nominating Committee (SNC)
   i) Senate Committee Elections (For Information)  S.17-82

9. Other Business

10. Information
   i) Date of the next regular meeting – Monday, September 11, 2017.

Agenda items and papers for the September meeting will be required by the Secretary at noon on Thursday, August 24, 2017. Submissions may be emailed to senate@sfu.ca, but must be followed up by a signed paper submission. These items will be considered by the Senate Committee on Agenda and Rules on Tuesday, August 29, 2017 with Senate distribution on Friday, September 1, 2017.

The Senate agenda and papers for this meeting are available on the Senate website at http://www.sfu.ca/senate/agenda.html.

Detailed curriculum papers can be found on Docushare at https://docushare.sfu.ca/dsweb/View/Collection-12682

Rummana Khan Hemani
Registrar

*Questions should be submitted in writing to Rummana Khan Hemani (email khan@sfu.ca) with “Senate Question” in the subject line by Wednesday, July 5th at 9:00 am.
TO: Senate

FROM Andrew Petter
Chair of Senate Committee on Agenda and Rules

DATE: June 29, 2017

SUBJECT: Membership Revision to Senate Graduate Studies Committee

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Motion
That Senate approve the attached proposed revision to the membership on the Senate Graduate Studies Committee.

Revision
The proposed revision is to change the Director, Graduate Admissions, Records & Registration to the Associate Director, Graduate Admissions, Records & Registration. This change is a result of the restructuring of duties within the Office of Graduate Studies and Postdoctoral Fellows.
MEMORANDUM

ATTENTION: SCAR

FROM: Jeff Derksen,
Acting Chair of Senate Graduate Studies Committee

RE: Membership Revision to Senate Graduate Studies Committee

DATE: May 18, 2017

Motion
That SCAR approve the attached proposed revision to the membership on the Senate Graduate Studies Committee.

Revision
The proposed revision is to change the Director, Graduate Admissions, Records & Registration to the Associate Director, Graduate Admissions, Records & Registration. This change is a result of the restructuring of duties within the Office of Graduate Studies and Postdoctoral Fellows.
### Proposed Composition of the Senate Graduate Studies Committee (SGSC)
- Standing (Reporting Category “B”)

<table>
<thead>
<tr>
<th>Members</th>
<th>Conditions</th>
<th>Names</th>
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<tbody>
<tr>
<td>Dean of Graduate Studies</td>
<td>Chair, Ex-Officio</td>
<td>Wade Parkhouse</td>
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<tr>
<td>Associate Dean of Graduate Studies</td>
<td>Ex-officio</td>
<td>Jeff Derksen, Peter Liljedahl</td>
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<tr>
<td>Associate Director, Graduate Admissions, Records &amp; Registration</td>
<td>Ex-officio</td>
<td>Shelley Gair</td>
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<tr>
<td>University Librarian (or designate)</td>
<td>Ex-officio</td>
<td>Nicole White</td>
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<td>Applied Sciences</td>
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<td>Mirza Faisal Beg</td>
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<td>Arts &amp; Social Sciences</td>
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<td>Lisa Shapiro</td>
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<td>Business Administration</td>
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<td>Ian McCarthy</td>
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<td>Communication, Art and Technology</td>
<td>Chair, Faculty of Graduate Studies Committee (or designate)</td>
<td>Zoë Druick</td>
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<td>Education</td>
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<td>Health Sciences</td>
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<td>Science</td>
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<td>Peter Ruben</td>
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<tr>
<td>Graduate Student (Regular)</td>
<td>Elected annually in the Spring Semester by/from graduate students; post-election vacancies will be filled by election by Senate (ends May 31, 2018)</td>
<td>Sarah Lord Ferguson, Erin Hogg, Kevin Hegeman</td>
</tr>
<tr>
<td>Graduate Student (Alternate)</td>
<td></td>
<td>Chantal Turpin</td>
</tr>
<tr>
<td>Coordinator, Graduate Academic Programs Policy &amp; Curriculum</td>
<td>Ex-officio (non-voting)</td>
<td>Krista Gerlich-Fitzgerald</td>
</tr>
<tr>
<td>Recording Secretary</td>
<td>Ex-officio (non-voting)</td>
<td>Daria Babeshko</td>
</tr>
</tbody>
</table>
MEMORANDUM

ATTENTION: Senate

FROM: Peter Keller, Vice-President, Academic and Provost, and Chair, SCUP

RE: Full Program Proposal for the Certificate in Biological Anthropology (SCUP 17-27)

DATE: June 16, 2017

At its June 14, 2017 meeting, SCUP reviewed and approved the full program proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment, effective Spring 2018.

Motion:

That Senate approve and recommend to the Board of Governors the full program proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment, effective Spring 2018.

c: D. Burley
MEMORANDUM

ATTENTION: Senate Committee on University Priorities
FROM: Gordon Myers, Chair
Senate Committee on Undergraduate Studies
RE: Faculty of Environment (SCUS 17-28a)

DATE: June 2, 2017
PAGES: 1/1

Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of June 1, 2017, gives rise to the following recommendations:

Motion

That SCUP approve and recommend to Senate the Full Program Proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment.

The relevant documentation for review by SCUP is attached.
Certificate in Biological Anthropology

Full Program Proposal

May 1, 2017
Department of Archaeology
1. **Credential to be awarded**
   Certificate in Biological Anthropology

2. **Location**
   Burnaby campus

3. **Department(s), School(s), Faculty(ies) offering program**
   Department of Archaeology

   Founded in 1971, the Department of Archaeology has concentrated expertise in three areas – Archaeological and Environmental Science, First Nations Heritage and Resource Management, and Biological Anthropology, including Forensic sciences. We offer undergraduate BA honours, major, minor and joint major programs, an undergraduate Certificate in Cultural Resource Management, MA and PhD degrees, as well as a Professional MA in Heritage Resource Management. Housed within the Department are the SFU Museum of Archaeology and Ethnology, SFU Archaeology Press, the Human Evolutionary Studies Program, the Centre for Forensic Research (with Criminology), the joint SFU/Jilin University Centre for Bioarchaeology, and the SSHRC Major Collaborative Research Initiative on Intellectual Property Issues in Cultural Heritage (IPinCH). The Department has specialized laboratories dedicated to zooarchaeology, paleobotany, stable isotopes, geoarchaeology, geochemistry, human osteology, ancient DNA and forensic DNA.

4. **Anticipated program start date**
   Spring 2018

5. **Description of proposal program**

   5.1. **Aims, goals and/or objectives**
   Biological anthropology (also known as “physical anthropology”) is the study of the biology and behaviour of humans and other primates. An evolutionary science with close links to Biology and Archaeology, it has five main areas of inquiry: paleoanthropology, primatology, bioarchaeology, human biology, and forensic anthropology. At SFU, students in Archaeology and other departments may have a significant concentration in biological anthropology courses that is not expressed in their transcripts. The Department of Archaeology has a strong group of faculty members with expertise in biological anthropology. Consequently, SFU students from various departments enroll in the biological anthropology courses offered by this group of faculty mem-
The Department of Archaeology proposes a certificate in biological anthropology to be housed at the Burnaby campus, tailored to the educational and experiential needs of archaeology students and other students in the university who would like to see their concentration of studies in biological anthropology recognized.

5.2. Mandate and strategic plan
The certificate in biological anthropology is congruent with the SFU vision statement in that it will provide a multidisciplinary and holistic understanding of the biological and social dimensions of humans. This will allow students to be life-ready learners, to develop research skills for the benefit of society and adapt them to develop healthier and more equal communities. Additionally, the certificate will support the vision of the Faculty of the Environment by focusing on the interactions of humans and their environment—both the effects of the physical and social environment on the biology and behaviour of humans in the present and past, and the effects of human behaviour on the environment in the past and present. This will help to build an interdisciplinary approach to environmental issues.

5.3. Target audience
The target audience is students who seek recognition of a concentration of courses in biological anthropology. This may include students majoring in Archaeology, Anthropology, Criminology, Health Sciences, Kinesiology, Psychology, and Biology. Students working toward a joint major in Archaeology/Anthropology may be particularly inclined to pursue this certificate. The certificate will likely be sought by students seeking graduate opportunities in the field of biological anthropology, but also employment with government, museums, forensic consulting firms, conservation groups, international development agencies, and human rights organizations.

5.4. Content and summary of requirements for graduation
Core requirements are a minimum of 15 credits in general biology, human evolution, human skeletal anatomy, and quantitative methods. Additional coursework is a minimum of 12 credits with a focus on primatology, bioarchaeology, paleoanthropology, paleopathology and/or forensic anthropology.

5.5. Delivery methods
The program will be delivered face-to-face in the classroom.
5.6. **Linkages between program outcomes and curriculum design**

As well as a basic introduction to human evolution (through Arch 131: Human Origins) and a more advanced knowledge of the human skeleton (Arch 373: Human Osteology), we also emphasize basic introductory biology (through BISC 101 or 102), and a relevant upper level undergraduate quantitative/statistics course. We do not require any biology for our current undergraduate archaeology majors, and a statistics option is currently only required of our honours majors, so the certificate is distinctive from our major/minor requirements.

Four further "elective" courses are required for the certificate, selected from a broad list of courses drawn from the Departments of Archaeology, Biology, Biomedical Physiology and Kinesiology, Criminology, Earth Sciences, Geography, Health Sciences, Molecular Biology, Sociology and Anthropology, and Psychology. Our intention is to encourage our majors who wish to attain the certificate to take one or more courses in another department related to the human-biological relationship. We also want to enable majors in related disciplines to undertake the certificate with some credit given for courses taken in their home department.

All the departments listed above have been consulted about the inclusion of their courses in this certificate. In all cases their responses were positive and in several cases the departments indicated which of their courses would be most appropriate. Details of consultations with the two most closely relate programs, Anthropology and Criminology, are provided in Appendix B.

5.7. **Distinctive characteristics**

At SFU undergraduate students who currently focus on biological anthropology are not formally recognized. In most North American universities biological anthropology is taught through the anthropology department. For historical reasons, the Department of Sociology and Anthropology at SFU does not offer training in biological anthropology. Instead, biological anthropology courses are taught by members of the Department of Archaeology and the Faculty of Health Sciences. Archaeology majors as well as the other targeted students who have majored in other areas, would benefit from formal recognition of a concentration of studies in biological anthropology offered by the Department of Archaeology.

5.8. **Anticipated completion time**

The certificate could comfortably be completed in 2 to 4 terms, given the minimum total of 27 credits required and availability of courses, but it is in-
tended to integrate with a student specialization (e.g., Archaeology major, Biology major etc.) that they would undertake throughout their undergraduate degree.

5.9. **Enrolment plan for the length of the program**

We anticipate that 12-15 students would enroll in the program each year. We will encourage students to declare the certificate by the beginning of their third year, in order to avoid any last-minute trouble fulfilling its requirements. The certificate will be advertised through our lower division courses, and through student advisors in relevant departments.

5.10. **Student evaluation**

As per general regulations for undergraduate programs for the University and Faculty of the Environment.

5.11. **Faculty appointments**

The program can be offered using current staffing levels and course offerings.

5.12. **Faculty members**

The Department of Archaeology has a strong contingent of Biological Anthropologists who will teach the core ARCH courses and upper level ARCH and HSCI electives for this program. These include:

- Dr. Hugo Cardoso, Assistant Professor (Human Osteology, Growth and Health)
- Dr. Mark Collard, Professor (CRC in Human Evolutionary Studies)
- Dr. Birute Galdikas, Professor (Primatology)
- Dr. Deborah Merrett, Adjunct Faculty Member (Human Osteology)
- Dr. Pablo Nepomnaschy, Assistant Professor (Environment and Human Health)
- Dr. Dennis Sandgathe, Lecturer and Adjunct Faculty Member (Paleoanthropology/Paleolithic Archaeology)
- Dr. Dongya Yang, Professor (Molecular Bioarchaeology)

This group of researchers and instructors are also involved in a range of ongoing research projects in which senior undergraduate students are often
Certificate in Biological Anthropology

given the opportunity to participate. In recent years, these have ranged from excavations at Neanderthal sites in France, and analyses of human remains from cemetery sites in Portugal to on-campus osteological analyses of archaeological skeletal remains and participation in the SFU Human Evolutionary Studies Program. In many cases involvement in these research projects has been influential in student’s pursuit of honours degrees and graduate studies.

5.13. Program assessment
All academic units and programs at SFU are reviewed every seventh year.

5.14. Related programs
A Certificate in Forensic Studies is offered by the School of Criminology, which includes five of the courses included in the certificate in biological anthropology (ARCH 373, 383, 442, 452 and CRIM 357). The overlap, however, would not prevent students from completing both credentials, as both programs provide a large number of course options, and none of the common courses are required for both certificates. The two credentials are also quite distinct from one another. The forensics certificate is focused on developing skills associated with the detection of crime and the determination of cause and other circumstances of human death. The biological anthropology certificate has a much broader focus, beyond the forensic applications of biological anthropology. Instead the Certificate in Biological Anthropology would provide student with a depth of education into the health and evolution of humans and other primates. Indeed, a student who completed both certificates would be exceptionally well qualified to pursue a career or graduate studies in Forensic Anthropology.

In British Columbia students can take biological anthropology undergraduate courses in anthropology departments at UBC, UVic, UNBC, and VIU. The creation of an SFU Certificate of Biological Anthropology for our undergraduates would both recognize their specialization, and also create clarity for employers/graduate schools given that their degree will not necessarily be in anthropology.

5.15. Evidence of student interest
Student interest in having some sort of formal recognition of their education in Biological Anthropology is long standing in the Department of Archaeology at SFU. Over the last twenty years undergraduate students (at Depart-

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Certificate in Biological Anthropology

ment retreats and other meetings) have repeatedly expressed the need for creating a 'stream' or certificate that would recognize, what for some students is the primary emphasis of their upper level undergraduate program. A recent (March 2017) poll of our undergraduate students indicates that this desire remains strong, with 19% (40 of 214 polled) of students in our lower division courses and 49% (40 of 82 polled) of students in upper division ARCH courses expressing interest in the credential. These values are consistent with the number of Honours Theses that have been completed in the department over the last 10 years, more than a third of which (15 of 37) have been on topics related to Biological Anthropology. Conservatively, we would expect to have 12 to 15 students per year complete the Certificate in Biological Anthropology. This is based on the level of student interest amongst students currently enrolled in archaeology courses and the potential for several undergraduates in other programs, particularly Criminology, Health Sciences, as well as Sociology and Anthropology to also be interested.

5.16. Benefits of earning the credential

Students who earn the Certificate in conjunction with a Major in a related discipline will be well prepared for graduate studies in the field of biological anthropology in departments of anthropology, archaeology, genetics, health sciences, biology, and zoology, but may also seek admission to medical school, and employment within a variety of government and private organizations. This includes government labs and research institutes, health and medical care institutions, museums, national and international conservation groups, zoos, international development agencies, human rights organizations, forensic and archaeological consulting firms and other private consulting businesses.

5.17. Resources

No new resources will be needed to offer the certificate. Students will enroll in courses already offered on a regular basis.

6. Contacts

Robert Muir, Undergraduate Program Chair, Department of Archaeology. 778.782.6773. bmuir@sfu.ca

Chris Papaianii, Manager, Academic and Administrative Services, Department of Archaeology. 778.782.4687 papaiann@sfu.ca
Appendix A:

University Calendar Listing

SFU DEPARTMENT OF ARCHAEOLOGY
CERTIFICATE IN BIOLOGICAL ANTHROPOLOGY

Students complete at least 27 units as set out below, with a minimum 2.25 GPA calculated on grades in the certificate program courses.

Core Requirements (minimum 24 units):
All of:
ARCH 131 - Human Origins (3)
ARCH 373 - Human Osteology (5)*

* With a minimum grade of B.

And one of:
BISC 101 - General Biology (4)
BISC 102 - General Biology (4)

And one of:
ARCH 376 - Quantitative Methods in Archaeology (5)
STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

And three of:
ARCH 322 - Special Topics in Biological Anthropology I (3)
ARCH 323 - Special Topics in Biological Anthropology II (3)
ARCH 344 - Primate Behaviour (3)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 385 - Paleoanthropology (5)
ARCH 452 - Introduction to Paleopathology (5)

Additional Course (minimum 3 units):

Students must complete one additional course from the list below:

ARCH 322 - Special Topics in Biological Anthropology I (3)**
ARCH 323 - Special Topics in Biological Anthropology II (3)**
ARCH 344 - Primate Behaviour (3)**
ARCH 383 - Molecular Bioarchaeology (3)**
Certificate in Biological Anthropology

ARCH 385 - Paleoanthropology (5)**
ARCH 435 - Field Work Practicum (3,4,5,6)*
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)**
BISC 202 - Genetics (3)
BISC 300 - Evolution (3)
BISC 302W - Genetic Analysis (3)
BISC 316 - Vertebrate Biology (4)
BISC 333 - Developmental Biology (3)
BISC 410 - Behavioural Ecology (3)
BISC 422 - Population Genetics (3)
BISC 440/440W - Biodiversity (3)
BISC 441 - Evolution of Health and Disease (3)
BPK 105 - Fundamentals of Human Structure and Function (3)
BPK 110 - Human Nutrition: Current Issues (3)
BPK 303 - Kinanthropometry (3)
BPK 326 - Functional Anatomy (4)
BPK 375 - Human Growth and Development (3)
CRIM 357 - Forensic Anatomy (3)
EASC 310W - Paleontology (3)
GEOG 386 - Health Geography (4)
HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)
HSCI 324 - Human Population Genetics and Evolution (3)
MBB 222 - Molecular Biology and Biochemistry (3)
MBB 231 - Cellular Biology and Biochemistry (3)
MBB 462 - Human Genomics (3)
PSYC 280 - Introduction to Biological Psychology (3)
PSYC 385 - Evolution and Psychology (3)
SA 218 - Illness, Culture and Society (4)
SA 318 - The Anthropology of Medicine (4)
SA 418 - International Health: Global Policies and Local Realities (4)

** If not counted above.
* When topic is applicable to biological anthropology.

Students must complete a minimum of 12 units at Simon Fraser University. Students are responsible for meeting the prerequisite requirements for courses used toward the certificate.
Certificate in Biological Anthropology

Consultation Record
Record of Consultation with Anthropology

From: Stacy Pigg <slpigg@gmail.com>
To: Bob Muir <bmuir@sfu.ca>
Sent: Mon, 14 Nov 2016 11:57:02 -0800 (PST)
Subject: Re: Certificate in Biological Anthropology

Dear Bob,

It's wonderful that Archeology is putting this certificate forward -- biological anthropology has tended to get lost in division between our two departments. I've had students in my own classes that were in the unofficial specialization you describe in the letter of intent.

SA has a number of courses that address human/biology/environment interactions -- I've included a full list at the end of this message.

The courses that are *most relevant* to this certificate are our *3 medical anthropology* courses:

SA 218, Illness Culture & Society (SA)
SA 318, Anthropology of Medicine (A)
SA 418, International Health: Global Policies & Local Realities (SA)

*SA asks that you add them to your list of electives, as they are equivalent to Geog 386 in providing a clear framework addressing health/body/biology from the perspective of social systems. *The prerequisite for all these courses is SA 101 (intro to Anthropology), SA 150 (Intro to Sociology) or SA 201 (Anthropology and contemporary life -- our 200 level theory course). I believe Arch majors are required to take SA 101, so certificate students would have easy access to these courses.

In your letter of intent, you could mention the *Archeo/Anthro joint major*, which creates a pathway for students to get a very solid, balanced (and in Canada, unique) training in *biocultural medical anthropology* *(if students choose medical anthropology courses for their upper-level anthro electives).

https://www.sfu.ca/sociology-anthropology/undergrad-studies/Academic%20Programs/anth-arch-joint-major.html

*Would Archeo be interested in mapping out what this path would look like, so that both our departments could include this in our advising materials? *I
doubt that there will be enough students to make it worth formalizing this through SCUS but we can nonetheless make it easier for students to see how they could do this.

*Please get in touch with me if there is more to discuss, especially if you see problems in adding our 3 courses to the electives list.* In addition to being the UPC Chair in our Dept, I am the medical anthropologist who teaches those three courses (and I edited a medical anthropology journal for 6 years) so I "get" the certificate and how it is unlike and yet connected to what we do in our dept. In the longer run, it would be good to bring the SA, FHS, GEOG, and ARCH cluster together around something like medical anthropology.

Stacy

Here are all the SA courses with a human/biological environment element. Please note that the courses on aging may also be pertinent to your certificate. I excluded them because unlike the medical anthropology courses they do not include explicit attention to the concept of biocultural interaction.

SA 319, Culture, Ethnicity & Aging (A)  
SA 420, Sociology of Aging (S) (taught by a gerontologist, online)

SA 326, Ecology and Social Thought (S)  
SA 364, Urban Communities and Cultures (A)  
SA 371, The Environment and Society (SA)

On Sat, Nov 12, 2016 at 5:40 PM, Bob Muir <bmuir@sfu.ca> wrote:

> From: Bob Muir <bmuir@sfu.ca>  
> To: pigg@sfu.ca  
> Sent: Mon, 07 Nov 2016 13:47:10 -0800 (PST)  
> Subject: Certificate in Biological Anthropology
>
> Dear Dr Pigg,
>
> The Department of Archaeology has developed a draft proposal for an undergraduate Certificate in Biological Anthropology. We are in the process of finalizing our Notice of Intent and a preliminary draft of the program requirements (both attached), but before submission we are hoping to get some feedback from your department. In particular, we are wondering if you believe any of the SA courses offered by your program might be
Certificate in Biological Anthropology

> appropriate to incorporate into this certificate.
> Any feedback you can provide will be much appreciated.
>
> Sincerely,
>
> Bob
>
> Robert J. Muir, PhD
> Senior Lecturer
> Undergraduate Program Chair
> Department of Archaeology
> Simon Fraser University
> 8888 University Drive
> Burnaby, British Columbia
> Canada, V5A 1S6.
> Telephone 778 782 6773
> Facsimile 778 782 5666
>
> http://www.sfu.ca/archaeology/faculty/muir.html
>
> I respectfully acknowledge that SFU is on unceded Tsleil-Waututh,
> Skwxwú7mesh and Musqueam lands.
Record of Consultation with Criminology

From: David MacAlister <dmacalis@sfu.ca>
To: Bob Muir <bmuir@sfu.ca>
Subject: Re: Certificate in Biological Anthropology

Hi Bob,

As far as I can tell the certificates can co-exist. If students really want both there seems to be enough flexibility that they can do both without the overlap being an issue. I spoke to our forensics people (Lynne Bell and Gail Anderson) and they are fine with it.

Best wishes,

David MacAlister

David MacAlister
Associate Professor and Director
School of Criminology
Simon Fraser University
8888 University Drive | Burnaby, BC | V5A 1S6
tel: 778.782.4305 fax: 778.782.4140 cell: 604.396.7772

From: "Bob Muir" <bmuir@sfu.ca>
To: "David Macalister" <david_macalister@sfu.ca>
Sent: Monday, March 27, 2017 12:34:56 PM
Subject: Re: Certificate in Biological Anthropology

Dear David,

The Department of Archaeology's Notice of Intent to create a Certificate in Biological Anthropology was approved by the Senate Committee on University Priorities last week. One of the requests made by the committee was that prior to submitting the full proposal, Archaeology consult with Criminology with respect to the course overlap between our proposed certificate program and your department's Forensics Certificate.

As currently proposed, our certificate program (attached) includes five course that are also listed as electives for the Forensics Certificate. These are:
Certificate in Biological Anthropology

ARCH 373 - Human Osteology (5)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)
CRIM 357 - Forensic Anatomy (3)

The potential problem is that students can not apply a given course to more than one certificate program. However, our position is that despite the overlap it would still be possible for a student to complete both certificates, as there is enough flexibility in both programs to avoid conflicts.

Any feedback you can provide would be much appreciated.

Sincerely,

Bob Muir

Robert J. Muir, PhD
Senior Lecturer
Undergraduate Program Chair
Department of Archaeology

http://www.sfu.ca/archaeology/faculty/muir.html

I respectfully acknowledge that SFU is on unceded Tsleil-Waututh, Skwxwú7mesh and Musqueam lands.

From: Sheri Fabian <sfabian@sfu.ca>
To: Bob Muir <bmuir@sfu.ca>
Subject: Re: Certificate in Biological Anthropology

Hello Bob,

My apologies for not responding to your previous email. I received the same email from our Director and thought that he had responded to you. We don't have any objections to your proposed certificate and the potential overlap with our Forensic Certificate.

Sheri

--
Sheri Fabian, Ph.D.
Senior Lecturer
Dear Dr. Fabian,

The Department of Archaeology's Notice of Intent to create a Certificate in Biological Anthropology was approved by the Senate Committee on University Priorities last week. One of the requests made by the committee was that prior to submitting the full proposal, Archaeology consult with Criminology with respect to the course overlap between our proposed certificate program and your department's Forensics Certificate.

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The potential problem is that students cannot apply a given course to more than one certificate program. However, our position is that despite the overlap it would still be possible for a student to complete both certificates, as there is enough flexibility in both programs to avoid conflicts.

Any feedback you can provide would be much appreciated.

Sincerely,

Bob Muir

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From: "Bob Muir" <bmuir@sfu.ca>
To: "Sheri Fabian" <sfabian@sfu.ca>
Sent: Monday, March 27, 2017 12:36:59 PM
Subject: Re: Certificate in Biological Anthropology

Dear Dr. Fabian,

The Department of Archaeology's Notice of Intent to create a Certificate in Biological Anthropology was approved by the Senate Committee on University Priorities last week. One of the requests made by the committee was that prior to submitting the full proposal, Archaeology consult with Criminology with respect to the course overlap between our proposed certificate program and your department's Forensics Certificate.

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Any feedback you can provide would be much appreciated.

Sincerely,

Bob Muir
Hi Ross,

This is to confirm Crim has no issues with including 357 as an option. Thanks for letting us take a look.

Sheri

---
Sheri Fabian, Ph.D.
Senior Lecturer
Associate Director, Undergraduate Programs
Academic Integrity Advisor
School of Criminology, Simon Fraser University
8888 University Drive, Burnaby, B.C. V5A 1S6
Office: Saywell Hall (ASSC1) 10330
Phone: 778 782-8136
Email: sfabian@sfu.ca

Hi Sheri,

I wanted to let you know that Archaeology is now creating a certificate in bioanthropology. We now have a draft of the certificate, and wanted to informally circulate it to other departments if we list their courses as part of the certificate.
For Criminology we have listed CRIM357 as one of the further options in the "take a few of" section at the end.
I am attaching the certificate draft. If you could take a look over the next week or so, and just get back to me with any concerns or questions from your department, that would be great.

Thanks so much,
Ross

Ross W. Jamieson
Associate Professor, Archaeology, Simon Fraser University
Burnaby, BC, Canada V5A 1S6
tel. 778.782.3087
rossjami@sfu.ca
skype ross.jamieson42
twitter @sicalpa
MEMORANDUM

ATTENTION: Senate
FROM: Gordon Myers, Chair
Senate Committee on Undergraduate Studies
RE: Course Changes (SCUS 17-25)

DATE: June 2, 2017
PAGES: 1/2

For information:

Acting under delegated authority at its meeting of June 1, 2017 SCUS approved the following curriculum revisions effective Spring 2018.

a. Beedie School of Business

   (i) Deletion of BUS 329

b. Faculty of Environment

   1. Department of Geography

      (i) B-Soc-Sci designation for GEOG 104-3, Climate Change, Water and Society

c. Faculty of Health Sciences

   (i) Description, prerequisite and/or equivalent statement change for HSCI 426, 427, 440, 441, and 442

d. Faculty of Science

   1. Department of Chemistry

      (i) Description change to SCI 191
2. Department of Mathematics

(i) Title, description and prerequisite change for MATH 302, 303 and 304

3. Department of Physics

(i) Prerequisite change for PHYS 102
(ii) Prerequisite and course number change for PHYS 332

RATIONALE (must be included)
Course will be replaced by two new courses: BUS 330, Income Taxation for Individuals and BUS 331, Corporate Taxation, effective Summer 2018. BUS 329 will no longer be offered.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (enter in textbox)  Summer 2018

PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.
2. Once you have the program impact list, please review how deleting this course affects each program's requirements.
3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.
4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit our page and click on “deleting a course” and review Step 2. Course Impact Analysis.
MEMORANDUM

ATTENTION  Alex Clapp, Associate Dean, FENV  
FROM  Susan Rhodes,  
      Director, University Curriculum & Institutional Liaison  
RE:  GEOG B approval  
DATE  May 2, 2017  
PAGES 1

The University Curriculum Office has approved B-Soc/Sci designation for the following Geography course, effective Spring 2018 (1181):

GEOG 104-3 Climate Change, Water and Society

Please forward this memo to your Faculty UCC, SCUS and Senate for further approval.

cc: Eugene McCann, UGC Chair, Department of Geography
COURSE MODIFICATION FORM

COURSE SUBJECT  HSCI  NUMBER  426  TITLE  Immune System 1

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number  Box
Units  Box
Prerequisite  X
Title  Box
Description  X
Equivalent  X

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike-through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

The Basic organization of the immune system, including structure, function and genetics of antibodies, T-cell receptors, innate immune receptors, and the complement system; structure and function of lymphoid tissues. Development of cells and tissues involved in immune responses. Innate and adaptive antibody and cellular immune responses and their control, orchestration, and development of the cells involved in these responses, including mucosal immunity. Prerequisite: MBB 331 with a minimum grade of C, or permission of the instructor. Students with credit for MBB 426 and HSCI 325 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Spring 2018

RATIONALE (must be included)
This update better reflects the current contents of this course. An equivalent modification to the cross-listed MBB 426 has been developed.
Type of Changes. Please type 'X' for the appropriate revision(s):

- Course number □
- Units □
- Prerequisite □
- Title □
- Description □
- Equivalent Statement □

Wording/Description Edits. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).

Defects in the immunologic response to bacterial, viral and parasitic infections. The mechanisms of action of vaccines. The causes of immune-mediated diseases. Immunological diseases, such as autoimmune diseases, immunodeficiency, hypersensitivity reactions (including asthma and allergy) and organ transplant rejection. Reactions. The reaction of the immune system to cancer and immunotherapy for cancer. Prerequisite: MBB 426 or HSCI 426, with a minimum grade of C, or permission of the instructor. Students with credit for MBB 427 may not repeat this course for further credit.

Effective Term and Year for Changes

- Spring 2018

Rationale (must be included)

This update better reflects the current contents of this course. An equivalent modification to the cross-listed MBB 427 has been developed.
COURSE SUBJECT HSCI  NUMBER 440  TITLE Cell Pathophysiology Laboratory

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

<table>
<thead>
<tr>
<th>Course number</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Title</th>
<th>Description</th>
<th>Equivalent</th>
</tr>
</thead>
</table>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

**Cell Pathophysiology Laboratory HSCI 440 (4)**

A review of pathophysiological mechanisms of disease with an emphasis on the molecular, cellular and genetic bases of pathology. Laboratory includes cell-biology experiments, histological preparations, and microscopic examination of normal and diseased tissues. Prerequisite: **MBB 308** and **HSCI 321**, or permission from instructor. **HSCI 321 and one of BISC 357, MBB 308, or MBB 309W.**

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Spring 2018

RATIONALE (must be included)
This change expands the number of courses students can use as a pre-requisite for this course.
COURSE MODIFICATION FORM

<table>
<thead>
<tr>
<th>COURSE SUBJECT</th>
<th>HSCI</th>
<th>NUMBER</th>
<th>441</th>
<th>TITLE</th>
<th>Virology Laboratory</th>
</tr>
</thead>
</table>

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

<table>
<thead>
<tr>
<th>Course number</th>
<th>Units</th>
<th>Prerequisite</th>
</tr>
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<tbody>
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<th>Description</th>
<th>Equivalent</th>
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</tbody>
</table>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

**HSCI 441 - Virology Laboratory (4)**

Study, in a laboratory environment, of viruses as infectious agents that threaten human health and viral associated cancer as well as their use in gene therapy. Includes cell culture methods, virus isolation and quantification, virus purification, etc. Prerequisite: HSCI 338 – Animal Virology. 0 and one of - BISC 303, BISC 357 – Gene Cloning, MBB 308. Molecular Biology laboratory, or MBB 309 – Biochemistry Laboratory.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

| Spring 2018 |

**RATIONALE** (must be included)

This change expands the number of courses students can use as a pre-requisite for this course.
COURSE SUBJECT: HSCI  
NUMBER: 442  
TITLE: Immunology Laboratory

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

- Course number  
- Units  
- Prerequisite: X

- Title  
- Description: X  
- Equivalent: 

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike-through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

HSCI 442 - Immunology Laboratory (4)

Laboratory methods in immunology. Focus on the vertebrate immune system and the molecular and cellular principles underlying immune recognition. Experimental methods designed to combine serology, biochemistry, molecular biology, cell biology and genetics as a basis for understanding immunological aspects of health and disease. Prerequisite: HSCI or MBB 426, and one of MBB 308, BISC 303, BISC 357, or MBB 309W.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)
Spring 2018

RATIONALE (must be included)
This change expands the number of courses students can use as a pre-requisite for this course.
COURSE SUBJECT | SCI | NUMBER | 191 | TITLE | Introduction to Modern Scientific Research

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

- [ ] Course number
- [ ] Units
- [ ] Prerequisite
- [ ] Title
- [X] Description
- [ ] Equivalent Statement

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

Introduction to research being performed in the Faculty of Science. Students attend bi-weekly seminars in which current research topics in the Faculty of Science are introduced at a level suitable for first-year and second-year students. This course spans disciplines in the Faculty of Science.

**EFFECTIVE TERM AND YEAR FOR CHANGES**
Fall, Spring, Summer and year (please enter in textbox)
- Spring 2018

**RATIONALE (must be included)**

The course was run as a pilot spanning two semesters, with bi-weekly seminars for 8 months. This became onerous to manage administratively and it was decided to make the course a more typical one-semester course, with weekly meetings. Thus the word “bi-weekly” in the description was removed.

The course material is also appropriate for second-year students and this has been made explicit in the course description.
COURSE SUBJECT | MATH | NUMBER 302 | TITLE | Computing with Mathematics

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

- [ ] Course number
- [ ] Units
- [X] Prerequisite
- [ ] Title
- [X] Description
- [ ] Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike-through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).

MATH 302 (3) – Computing with Mathematics Mathematical Journeys II

Computational techniques have become a cornerstone of modern mathematics. Each offering explores the mathematics of an area of advanced technology. Potential course topics include: image processing; codes and ciphers; bioinformatics; experimental mathematics; and modeling and simulation. Department permission is required to complete this course more than once. Prerequisite: MATH 152 or 155 or 158 and MATH 232 or 240. There may be additional prerequisites depending on the course’s topics. Recommended: MACM 202, 203, or 204 or equivalent computing experience.

A focused exploration of a special topic (varying from term to term) that builds on mathematical ideas from lower division courses and provides further challenges in quantitative and deductive reasoning. Each Journeys course is designed to appeal particularly to mathematics minor students and others with a broad interest in mathematics.

Prerequisite: MATH 152 or 155 or 158, and MATH 232 or 240. There may be additional prerequisites depending on the specific course topic.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Spring 2018 (to be offered in the Spring of even-numbered years)

November 2016
RATIONALE (must be included)

The intent of altering the titles and descriptions of the courses MATH 302, 303 and 304 is to clarify that these are indeed topics courses, and to standardize the scheduling, without changing these popular courses themselves.

The courses MATH 302 (Computing with Mathematics), MATH 303 (Perspectives on Geometry) and MATH 304 (Quantifying Uncertainty) were introduced in 2009 as special topics courses designed to appeal especially to potential mathematics minor students and other non-majors broadly interested in mathematical ideas. These upper-division courses have been extremely successful, sometimes attracting up to 70 students. The number of Mathematics minors, from less than 10 in 2009, now number over 120 students. Because of the irregular rotation of faculty who were assigned to teach the class, the old course titles seldom corresponded to the special topic that was offered.

The proposed modification is to rename these courses all as "Mathematical Journeys", all sharing the same description, and to introduce an additional such course, MATH 301. This will permit us to offer a series of four special topics courses, named Mathematical Journeys I, II, III and IV, so to be distinct within our two-year cycle of course offerings. The appending of special topics titles will make both course advertising and students' transcripts less confusing. Most importantly, the distinct numbering should make it perfectly clear to potential minor students that there is a permanently scheduled selection of upper-division courses that they can use to satisfy their 5-course minor requirement.

November 2016
COURSE SUBJECT | MATH
NUMBER | 303
TITLE | Perspectives on Geometry

TYPE OF CHANGES. Please type ‘X’ for the appropriate revision(s):

Course number □ Units □ Prerequisite □
Title □ Description □ Equivalent □ Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike-through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

MATH 303 (3) - Perspectives on Geometry Mathematical Journeys III

Geometry is the mathematics of form and space, and is vital to our understanding of both the physical and virtual worlds. Designing computer graphics is an example of using mathematics to encode spatial relationships. Potential topics include: Euclidean and non-Euclidean geometries, computational geometry, differential geometry, and symmetry. Prerequisite: MATH 152 or 155 or 158 and MATH 232 or 240. There may be additional prerequisites depending on the course's topics. Department permission is required to complete this course more than once. Quantitative.

A focused exploration of a special topic (varying from term to term) that builds on mathematical ideas from lower division courses and provides further challenges in quantitative and deductive reasoning. Each Journeys course is designed to appeal particularly to mathematics minor students and others with a broad interest in mathematics. Prerequisite: MATH 152 or 155 or 158, and MATH 232 or 240. There may be additional prerequisites depending on the specific course topic.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2018 (to be offered in the Fall of even-numbered years)
RATIONALE (must be included)

The intent of altering the titles and descriptions of the courses MATH 302, 303 and 304 is to clarify that these are indeed topics courses, and to standardize the scheduling, without changing these popular courses themselves.

The courses MATH 302 (Computing with Mathematics), MATH 303 (Perspectives on Geometry) and MATH 304 (Quantifying Uncertainty) were introduced in 2009 as special topics courses designed to appeal especially to potential mathematics minor students and other non-majors broadly interested in mathematical ideas. These upper-division courses have been extremely successful, sometimes attracting up to 70 students. The number of Mathematics minors, from less than 10 in 2009, now number over 120 students. Because of the irregular rotation of faculty who were assigned to teach the class, the old course titles seldom corresponded to the special topic that was offered.

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November 2016
COURSE SUBJECT | MATH | NUMBER | 304 | TITLE | Quantifying Uncertainty

TYPE OF CHANGES. Please type ‘X’ for the appropriate revision(s):

- [ ] Course number
- [x] Units
- [x] Prerequisite
- [x] Title
- [x] Description
- [ ] Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).

MATH 304 (3) – Quantifying Uncertainty Mathematical Journeys IV

Probability theory is the mathematics of uncertainty as in weather forecasting, genetics, the financial markets, and even your choice of line at the grocery. Here we explore models that quantify chance in daily life. Potential topics are: game theory, queueing theory, random processes, and the mathematics of finance. Department permission is required to complete this course more than once. Prerequisite: MATH 152 or 155 or 158 and MATH 232 or 240. There may be additional prerequisites depending on the course’s topics. Quantitative.

A focused exploration of a special topic (varying from term to term) that builds on mathematical ideas from lower division courses and provides further challenges in quantitative and deductive reasoning. Each Journeys course is designed to appeal particularly to mathematics minor students and others with a broad interest in mathematics. Prerequisite: MATH 152 or 155 or 158 and MATH 232 or 240. There may be additional prerequisites depending on the specific course topic.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Spring 2019 (to be offered in the Spring of odd-numbered years)

November 2016
RATIONALE (must be included)

The intent of altering the titles and descriptions of the courses MATH 302, 303 and 304 is to clarify that these are indeed topics courses, and to standardize the scheduling, without changing these popular courses themselves.

The courses MATH 302 (Computing with Mathematics), MATH 303 (Perspectives on Geometry) and MATH 304 (Quantifying Uncertainty) were introduced in 2009 as special topics courses designed to appeal especially to potential mathematics minor students and other non-majors broadly interested in mathematical ideas. These upper-division courses have been extremely successful, sometimes attracting up to 70 students. The number of Mathematics minors, from less than 10 in 2009, now number over 120 students. Because of the irregular rotation of faculty who were assigned to teach the class, the old course titles seldom corresponded to the special topic that was offered.

The proposed modification is to rename these courses all as "Mathematical Journeys", all sharing the same description, and to introduce an additional such course, MATH 301. This will permit us to offer a series of four special topics courses, named Mathematical Journeys I, II, III and IV, so to be distinct within our two-year cycle of course offerings. The appending of special topics titles will make both course advertising and students' transcripts less confusing. Most importantly, the distinct numbering should make it perfectly clear to potential minor students that there is a permanently scheduled selection of upper-division courses that they can use to satisfy their 5-course minor requirement.

November 2016
COURSE MODIFICATION FORM

COURSE SUBJECT  PHYS  NUMBER  102  TITLE  Physics for the Life Sciences II

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

- Prerequisite  

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).

PHYS 101 or 120 or 125 or 140 and MATH 154 or 150 or 151 or 157. all with a minimum grade of C-. Co-requisite: BISC 100 or 101 or 102. Recommended Corequisites: MATH 152, 155 or 158, PHYS 130.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Spring 2018

RATIONALE (must be included)

Students need experience with calculus before taking PHYS 102. While MATH 154 is a required co-req for PHYS 101, students are currently able to enter PHYS 102 without MATH 154. Making the pre-req explicit should remove this possibility.

November 2016
COURSE SUBJECT  PHYS  NUMBER 332  TITLE  Optics Laboratory

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

- [ ] Course number
- [ ] Units
- [X] Prerequisite
- [ ] Title
- [ ] Description
- [ ] Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the “Equivalency statements” section under Information about specific course components if changing equivalent statement(s).

Prerequisite: either PHYS 233 or both (PHYS 231 and CHEM 266) and either PHYS 285 or CHEM 260 all with a minimum grade of C-.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

- [X] Spring 2018

RATIONALE (must be included)

CHPH students do not take PHYS 233, and so we have an alternate stream for them to enter PHYS 332, which is a combination of PHYS 231 and CHEM 266. CPHM students can take either PHYS 285 or CHEM 260. Making these alternatives explicit should help CPHM students plan their programs.
For information:

Acting under delegated authority at its meeting of June 1, 2017 SCUS approved the following curriculum revisions effective Spring 2018.

a. Faculty of Applied Sciences (SCUS 17-26a)

1. School of Mechatronic Systems Engineering

   [i] New Course Proposal: MSE 429-3, Advanced Kinematics for Robotic Systems

b. Beedie School of Business (SCUS 17-26b)

   [i] New Course Proposals:
   • BUS 330-3, Income Taxation for Individuals
   • BUS 331-3, Corporate Taxation
   • BUS 465-3, Business Systems Development

c. Faculty of Science (SCUS 17-21c)

1. Department of Molecular Biology and Biochemistry

COURSE SUBJECT/NUMBER

COURSE TITLE
LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation
MSE 429 - Advanced Kinematics for Robotic Systems

AND
SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation
Advanced Kinematics for Robotic Systems

CAMPUS where course will be taught: □ Burnaby □ Surrey □ Vancouver □ Great Northern Way □ Off campus

COURSE DESCRIPTION (FOR CALENDAR), 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.
Introduction to kinematics of robot manipulators (serial and parallel). Serial: Forward and inverse
kinematics for manipulators with spherical and non-spherical wrists. Parallel: Loop-closure equations
and methods for solving polynomial systems. Trajectory generation: Joint and Cartesian spaces.
Jacobians, velocity and static force analyses, singularities (kinematic, static and architectural).
Introduction to dynamics.

LIBRARY RESOURCES
NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library
materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been
addressed.

Library report status
No additional material is required.

RATIONALE FOR INTRODUCTION OF THIS COURSE
This course is intended to consolidate three-dimensional kinematics of rigid bodies introduced in MSE
222 and to expand the application and implementation of modern industrial robotic systems offered in
MSE 480. The course will include additional seminars (approx. 4 during the term) that will cover
specific problems and methods beyond the course material.

SCHEDULING AND ENROLLMENT INFORMATION
Indicate effective term and year course would first be offered and planned frequency of offering thereafter:
This course was first offered in Fall 2016 and will be taught annually thereafter.

Will this be a required or elective course in the curriculum? □ Required □ Elective
What is the probable enrollment when offered? Estimate: 30
CREDITS
Indicate number of credits (units): 3

Indicate number of hours for: Lecture 3 Seminar 3 Tutorial Lab Other

FACULTY Which of your present CFL faculty have the expertise to offer this course?
Flavio Firmani
Siamak Arzanpour

WQB DESIGNATION (attach approval from Curriculum Office)

PREREQUISITE
Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the prerequisite.

MSE 222. Students with credit for MSE 490 - Advanced Kinematics for Robotic Systems (Fall 2016) cannot take MSE 429 for further credit. ENSC students declared as Systems Option majors may not take this course. Students may not take both ENSC 488 and MSE 429 for credit.

COREQUISITE

STUDENT LEARNING OUTCOMES
Upon satisfactory completion of the course students will be able to:

• Understand reference frame attachments at the joints of serial and parallel manipulator.

• Solve problems involving systems of non-linear equations and polynomial equations that result from the inverse kinematics (serial) and forward kinematics (parallel), respectively.

• Generate joint trajectories (point-to-point and continuous) using mathematical schemes.

• Analyse velocity and static force problems. Understand the types of singularities in parallel robots.

• Determine the required torques for a particular manipulator design and trajectory.

• Work collaboratively with other students in a team course project.

FEES
Are there any proposed student fees associated with this course other than tuition fees?  ○ YES  ○ NO

NOVEMBER 2012
RESOURCES
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

Access to the computer laboratory. Matlab and SolidWorks License.

OTHER IMPLICATIONS
Articulation agreement reviewed?  ○ YES  ○ NO  ○ Not applicable
Exam required:  ○ YES  ○ NO
Criminal Record Check required:  ○ YES  ○ NO

APPROVALS: APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.
1  Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

Chair, Department/School  Date

Chair, Faculty Curriculum Committee  Date

2  Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

Dean or designate  Date

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.
Nil.

Other Faculties’ approval indicates that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

__________________________________________  Date  _______________________________________

__________________________________________  Date  _______________________________________

3  SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

COURSE APPROVED BY SCUS (Chair of SCUS):

__________________________________________  Date

NOVEMBER 2012
COURSE SUBJECT: BUS       NUMBER: 330

COURSE TITLE LONG - for calendar/schedule: no more than 100 characters including spaces and punctuation
Income Taxation for Individuals

COURSE TITLE SHORT - for enrollment/transcript: no more than 30 characters including spaces and punctuation
Income Taxation for Individuals

CAMPUS: where course will be normally taught: 
✓ Burnaby  Survey  Vancouver  Great Northern Way  Off campus

COURSE DESCRIPTION - 50 words max. Attach a course outline. Don’t include WQ3 or prerequisites info in this description box:

Basic knowledge of the underlying principles and concepts of the Canadian Income Tax Act and the application of its rules to practical situations. It also examines the general income tax planning principles and equip students with the ability to identify tax planning opportunities for individuals.

REPEAT FOR CREDIT: YES  ✓ NO  Total completions allowed: 
Within a term: YES  ✓ NO

LIBRARY RESOURCES
NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

RATIONALE FOR INTRODUCTION OF THIS COURSE

Currently, BUS 329-4 cover Income Tax topics for students interested in pursuing the CPA designation, or just wanting to gain an Introduction to Canadian income tax laws and regulations. It is primarily a practical course. By splitting the course into two, we will be able to add more material relating to tax theory and tax policy and make sure that students are able to keep pace with the changes that occur from time to time with in the CPA Competency Map.
SCHEDULING AND ENROLLMENT INFORMATION
Term and year course would first be offered (e.g. FALL 2016) **Summer 2018**

Term in which course will typically be offered  ✔ Spring  ✔ Summer  ✔ Fall
Other (describe) [empty]

Will this be a required or elective course in the curriculum?  Required  ✔ Elective

What is the probable enrollment when offered?  Estimate: **60 per term**

UNITs
Indicate number of units: **3**

Indicate no. of contact hours:  Lecture **3** Seminar  Tutorial  Lab  Other; explain below

OTHER
[empty]

FACULTY
Which of your present CFL faculty have the expertise to offer this course?

**Teresa Fung**

WQB DESIGNATION
(attach approval from Curriculum Office)
[empty]

PREREQUISITE AND / OR COREQUISITE
**BUS 320 (co-requisite)**
EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]

Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

BUS 329-4

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]

(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]

Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? YES NO

Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]

FEES

Are there any proposed student fees associated with this course other than tuition fees? YES ☑ NO

COURSE - LEVEL EDUCATIONAL GOALS [OPTIONAL]

On successfully completing this course, students will be able to:
  • Describe the general structure of the Canadian Income Tax System
  • Outline the tax procedures and administration requirements imposed by the Canadian Income Tax Act
  • Explain the basic concepts of employment income, business income or loss and property income
  • Apply the general provisions of the capital cost allowance system
  • Discuss the income tax provisions for computing capital gains and losses on the disposition of capital assets
  • Evaluate retirement savings as a source of income
  • Identify other major sources of taxable income, deductions and tax credits for individuals
  • Determine the net income for tax purpose, taxable income and tax payable for individuals
  • Formulate basic tax planning strategies for individuals

March 2017
RESOURCES
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS
Final exam required  ✔ YES  NO  
Criminal Record Check required  YES  ✔ NO  

OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator
Stephen Spector
COURSE SUBJECT | BUS
COURSE NUMBER | 331

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation
Corporate Taxation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation
Corporate Taxation

CAMPUS where course will be normally taught: ☑ Burnaby    Surrey    Vancouver    Great Northern Way    Off campus

COURSE DESCRIPTION — 50 words max. Attach a course outline. Don’t include WQB or prerequisites info in this description box.
Students will examine the taxation of corporations, corporate distributions, and transactions between corporations and their shareholders. Topics include an in-depth coverage of taxable capital gains; deferred income plans; and the taxation of corporate entities, partnerships, trusts and corporate reorganizations.

REPEAT FOR CREDIT
YES ☑ NO
Total completions allowed
Within a term? YES ☑ NO

LIBRARY RESOURCES
NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

RATIONALE FOR INTRODUCTION OF THIS COURSE
Currently, BUS 329-4 cover Income Tax topics for students interested in pursuing the CPA designation, or just wanting to gain an introduction to Canadian income tax laws and regulations. It is primarily a practical course. By splitting the course into two, we will be able to add more material relating to tax theory and tax policy and make sure that students are able to keep pace with the changes that occur from time to time within the CPA Competency Map.

March 2017
SCHEDULING AND ENROLLMENT INFORMATION
Term and year course would first be offered (e.g. FALL 2016) Summer 2018

Term in which course will typically be offered  
- Spring  
- Summer  
- Fall  
- Other (describe) [ ]

Will this be a required or elective course in the curriculum?  
- Required [ ]  
- Elective [ ]

What is the probable enrollment when offered?  
Estimate: 60 per tem

UNITS
Indicate number of units: 3

Indicate no. of contact hours:  
- Lecture 3  
- Seminar  
- Tutorial  
- Lab  
- Other; explain below [ ]

OTHER
[ ]

FACULTY
Which of your present CFL faculty have the expertise to offer this course?

Susan Bubra

WQB DESIGNATION
(attach approval from Curriculum Office)

PREREQUISITE AND / OR COREQUISITE
BUS 330 (or BUS 329-4)
EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]
Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]
Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? YES NO
Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]

FEES
Are there any proposed student fees associated with this course other than tuition fees? YES NO

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

After completing this course, students will be able to accomplish the following:
• Apply the income tax provisions for the determination of gains and losses on the disposition of capital assets
• Evaluate the various deferred income plans available to Canadians and how these plans can be used for retirement, education or general wealth building purposes
• Calculate the net income, taxable income and taxes payable for a corporate entity
• Demonstrate how corporate entities are taxed on their investment income
• Interpret the technical corporate taxation issues involving the acquisition of control, association rules, investment tax credits, paid-up-capital and distribution of corporate surpluses
• Explain how a corporation can be used to reduce taxes, defer taxes, and facilitate income splitting
• Quantify the income of a partnership for tax purposes and allocate this income to partners
• Explain the taxation of the different types of trusts and how they can be successfully used for estate planning purposes
• Identify the major provisions of Section 85 rollovers under the Canadian Income Tax Act and other rollover provisions affecting corporations, partnerships and trusts

March 2017
RESOURCES
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS
Final exam required  ✔ YES   NO
Criminal Record Check required   YES   ✔ NO

OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator
Stephen Spector
COURSE SUBJECT  BUS  
NUMBER  465  

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation
Business Systems Development

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation
Business Systems Development

CAMPUS where course will be normally taught:  
✓ Burnaby  
Surrey  
Vancouver  
Great Northern Way  
Off campus

COURSE DESCRIPTION — 50 words max. Attach a course outline. Don’t include WQB or prerequisites info in this description box.

This course will focus on the practical application of business technology management knowledge and skills to develop business systems. Students will learn how to apply knowledge from prior MIS courses and develop applications for Internet-enabled businesses. The students targeted are primarily Beedie MIS students who have preferably taken BUS 362 & BUS 464, in which they conceptualize the data and functional requirements for business software. The course will thus deepen skills in process logic, data management, and user interface design in business domains.

REPEAT FOR CREDIT  
YES ✓ NO  
Total completions allowed  
Within a term?  
YES ✓ NO

LIBRARY RESOURCES
NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

RATIONALE FOR INTRODUCTION OF THIS COURSE
This course, targeted primarily at Beedie MIS students, focuses on the practical application of business technology management concepts taught in MIS courses. Currently, Beedie does not offer any course in business systems development for undergraduates to apply their MIS knowledge. MIS students mostly take 100 level courses in CMPT do not focus on business systems. Neither are Beedie students required to deepen these skills during the MIS concentration, nor are there specific courses within SFU where they have an opportunity to apply and develop their conceptual designs for business functionality (which is a central component of BUS 362 and BUS 464) into working prototypes. Typical of any design course, a substantial part of learning and skill enhancement will happen when students are applying concepts from prior courses and converting their conceptual software designs into prototypes. This course therefore is a natural progression of the recommended pre-requisites. The pre-requisites may be made mandatory after one or two offerings of this course.

March 2017
NEW COURSE PROPOSAL

SCHEDULING AND ENROLLMENT INFORMATION
Term and year course would first be offered (e.g. FALL 2016) Spring 2018

Term in which course will typically be offered

☑ Spring
☑ Summer
☑ Fall

Other (describe)

Will this be a required or elective course in the curriculum?

☑ Required
☑ Elective

What is the probable enrollment when offered?

Estimate: 25 per term

UNITS
Indicate number of units: 3

Indicate no. of contact hours:

Lecture 3
Seminar
Tutorial
Lab
Other: explain below

OTHER

FACULTY
Which of your present CFL faculty have the expertise to offer this course?

Nilesh Saraf, Kamal Masri, Michael Brydon, JM Goh

WQB DESIGNATION
(attach approval from Curriculum Office)

PREREQUISITE AND / OR COREQUISITE
Prerequisite: BUS 360W, Recommend BUS 362/464/CMPT 354
EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]
Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]
Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? YES NO
Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]
This course is equivalent to BUS 492 (Summer 2017).

FEES
Are there any proposed student fees associated with this course other than tuition fees? YES NO

COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)
On successfully completing this course, students will be able to:

- Apply business technology management concepts
- Assess feasibility of information systems requirements for businesses
- Assess the quality of information systems for businesses
- Develop alternative information systems solutions for adapting business processes
- Acquire skills in developing business systems
- Implement Internet-enabled business system
- Acquire collaboration skills specific to business software development
RESOURCES
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc.:

None.

OTHER IMPLICATIONS
Final exam required  YES  NO
Criminal Record Check required  YES  NO

OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator
Nilesh Saraf
COURSE SUBJECT MBB
NUMBER 302

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation
Energy: From Cells to Society

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation
Energy: From Cells to Society

CAMPUS where course will be normally taught: ☑ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION — 50 words max. Attach a course outline. Don’t include WQB or prerequisites info in this description box.

Energy sustains life, from early cells, through molecular machines and ecosystems, to industrial society. Social issues, such as the search for extraterrestrial life, obesity, death and climate change will provide context for understanding the science of energy.

REPEAT FOR CREDIT ☑ YES ☑ NO Total completions allowed ☐ Within a term? ☑ YES ☐ NO

LIBRARY RESOURCES
NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

RATIONALE FOR INTRODUCTION OF THIS COURSE

The yawning divide between the human enterprise and nature is nowhere more apparent than in our relationship to energy. This wide-ranging science breadth course, grounded in biochemistry and enriched by contributions from other science disciplines, will use energy as a thread to show the deep connections between cellular life and life in our complex industrial society. It will provide non-science students with an opportunity to experience nature on a level normal reserved for practicing scientists. Science students taking this course as an elective will see science in the broader context of important societal issues.

March 2017
SCHEDULING AND ENROLLMENT INFORMATION
Term and year course would first be offered (e.g. FALL 2016) summer 2018

Term in which course will typically be offered
☐ Spring ☑ Summer ☐ Fall
Other (describe)

Will this be a required or elective course in the curriculum?
☐ Required ☑ Elective

What is the probable enrollment when offered? Estimate: 100

UNITS
Indicate number of units: three

Indicate no. of contact hours: Lecture Seminar Tutorial Lab 4 Other; explain below

OTHER
The approach of the course will be team-based learning

FACULTY
Which of your present CFL faculty have the expertise to offer this course?

Dr. Lynne Quarmby

WQB DESIGNATION
(attach approval from Curriculum Office)

please see attached

PREREQUISITE AND / OR COREQUISITE
pre-requisite of 45 units
EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]
Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]
Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? □ YES □ NO

Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]

FEES

Are there any proposed student fees associated with this course other than tuition fees? □ YES □ NO

COURSE - LEVEL EDUCATIONAL GOALS [OPTIONAL]
RESOURCES
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS
Final exam required  ☑ YES  ☐ NO
Criminal Record Check required  ☐ YES  ☑ NO

OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator
Ingrid Northwood
MEMORANDUM

ATTENTION: Carl Lowenberger, Associate Dean, Faculty of Science

FROM: Susan Rhodes, Director
University Curriculum & Institutional Liaison

RE: MBB Breadth designation approval

DATE: March 28, 2017

PAGES: 1

The University Curriculum Office has reviewed and approved B-Sci designation for the following proposed Molecular Biology and Biochemistry course, effective Summer 2018 (1184):

MBB 302-3 Energy: From Cells to Society

Please forward this memo to your Faculty UCC and then on to SCUS and Senate for further approval.

cc: Ingrid Northwood, Undergraduate Program Coordinator, Molecular Biology and Biochemistry
For information:

Acting under delegated authority at its meeting of June 1, 2017 SCUS approved the following curriculum revisions effective Spring 2018.

a. Beedie School of Business (SCUS 17-27a)

   (i) Requirement changes to the Innovation & Entrepreneurship Certificate
   (ii) Requirement changes to the Non-Majors’ Access to Business Courses
   (iii) Requirement changes to the Business Technology Management Certificate
   (iv) Upper division requirement change to the Business Minor

b. Faculty of Environment (SCUS 17-27b)

   1. Department of Archaeology

   (i) Upper and lower division requirement changes to the:

   - Archaeology Major
   - Archaeology Honours
   - Anthropology and Archaeology Joint Major
   - Archaeology Minor
   - Archaeology Extended Minor

c. Faculty of Health Sciences (SCUS 17-27c)

   (i) Upper division requirement changes to the Health Sciences Major and Honours programs
**Calendar Entry Change**  
Name of Program or Name of Faculty

<table>
<thead>
<tr>
<th>Rationale for change:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Faculty of Science regularized the selected topics course BUS 372 in Brewing Science that was accepted for this certificate. It is now BUS 373 Brewing Science, and BUS 374 Brewing Science with Lab. The changes below reflect these new course numbers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Effective term and year:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2017</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The following program(s) will be affected by these changes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innovation &amp; Entrepreneurship Certificate</td>
</tr>
</tbody>
</table>

*Please note these changes were made to the Fall 2017 calendar.*

**Calendar Change:** “to” and “from” sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a **bold**.

**Admission Requirements**
A student in any faculty at SFU may declare this certificate through the Beedie School of Business.

**Limitations**
Students may complete only one of the Certificate in Business Analytics and Decision Making, the Certificate in Business Technology Management, or the Charles Chang Certificate in Innovation and Entrepreneurship.

Additionally, units applied to one certificate may not be applied to another Simon Fraser University certificate or diploma, as noted here [link to: http://www.sfu.ca/students/calendar/2017/faU/fees-and-regulations/credentials-offered/definitions.html#cert].

**Grade Requirements**
In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.30 cumulative grade point average (CGPA) for entry into all 300 and 400 division business courses.

**Program Requirements**
Students must complete a minimum of 21 units, including foundational business courses, a capstone course, and additional coursework from a variety of disciplines.

April 2016
Students will complete all of:

- BUS 238 - Introduction to Entrepreneurship and Innovation (3)
- BUS 314 - Resourcing New Ventures (3)
- BUS 338 - Foundations of Innovation (3)
- BUS 361 - Project Management (3)

And one of*:

- BUS 477 - Startup Experience (4)
- ENV 495 - Environmental Capstone (4) **
- MSE 410 - Capstone Design Technical Project I (3)
- MSE 411W - Capstone Design Technical Project II (3)
- HSCI 495 - Applied Health Science Project (4)
- IAT 499 - Graduation Project (6)

Students‡ will complete three-two of*:

- BISC 372 - Special Topics in Biology (3) ***
- **BISC 373 Brewing Science (3) or BISC 374 Brewing Science with Lab (3)**
- BUS 443 - New Product Development and Design (3)
- BUS 450 - Managing Emerging Opportunities (3)
- BUS 453 - Sustainable Innovation (3)
- BUS 490, 491, 492, 493, 494, 495, 496 - Selected Topics in Business Administration****
- CMPT 120 - Introduction to Computing Science and Programming I (3)
- CMPT 320 - Social Implications - Computerized Society (3)
- HSCI 130 - Foundations of Health Science (4)
- HSCI 305 - The Canadian Health System (3)
- HSCI 312 - Health Promotion: Individuals and Communities (3)
- IAT 333 - Interaction Design Methods (3)
- IAT 431 - Speculative Design (3)
- MSE 110 - Mechatronics Design I (3) or MSE 111 - Mechatronics for non-Engineers (3)
- POL 150 - Science, Policy, and Innovation (3)
- POL 457W - Technology and Innovation Policy (4)

‡ Students completing a Bachelor of Business Administration may not use BUS 443, BUS 450, BUS 453, or BUS 49X to meet the requirements of this section.

* Substitutions with appropriate course content may be possible with permission from the Beedie School of Business.

** ENV 495 will only count toward this certificate when offered as part of Change Lab.
Students are to consult with a Faculty of Environment advisor before enrolling in this course.

*** BISC 372—Selected Topics in Biology will only count toward this certificate when offered as The Science of Brewing. Alternatively, students with credit for BISC 373—The Science of Brewing, may also use this course toward this requirement.

****When offered as a selected topics course in Innovation and Entrepreneurship.
Calendar Entry Change
Beedie School of Business Undergraduate Program

Rationale for change:

This change will clarify the period during which non-Business students may access upper-division Business courses. Although we allow access from the day before classes begin until the end of the fifth day of classes, the current language is unclear. Current language implies that students may only have access for one day, when this is not the case.

Please note that these are additional changes upon the edits already made for Fall 2017. The text below indicates modifications on the new (Fall 2017) calendar language.

Effective term and year:
Spring 2018

The following program(s) will be affected by these changes:
Beedie School of Business Undergraduate Program
http://www.sfu.ca/students/calendar/2017/summer/faculties-research/faculty-business.html

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a bold.

Non-Majors’ Access to Business Courses
300 AND 400 DIVISION BUS COURSE ENROLLMENT RESTRICTIONS

Students other than those accepted into a program in business administration may complete enroll in selected 300 and 400 division business administration courses from the day before the term begins until the end of the first week of class, contingent upon:

- space available on the day-before-the-term-begins in the course during the period indicated
- meeting the all prerequisites for the requested course
- required minimum overall SFU Business course GPA of 2.30

Registration in BUS 360W is limited to students who are approved in a business major, joint major, honours, or joint honours program.

Only business students admitted to the Accounting concentration will be permitted to enroll in upper division (300- and 400-level) accounting courses required for this concentration (with the exception of BUS 320).
Only students admitted to the Business minor will be permitted to enroll in upper division Business Minor courses (BUS 311, 340, 341, and 401).
Calendar Entry Change
Beedie School of Business, Undergraduate Program
Business Technology Management Certificate

Rationale for change:
**Objective #1:** To offer two domain-specific pathways for students considering: a) the demand from the industry as identified by the ITAC (IT association of Canada), which grants the BTM accreditation; b) The availability of existing courses within SFU which broadly meeting the skills definitions under these specializations, as developed by ITAC.

**Objective #2:** To upgrade the BTM-MIS specialization by i) introducing BUS 465 as a required course ii) adding CMPT 120 as an optional course.

Effective term and year:
**Spring 2018**

The following program(s) will be affected by these changes:

Business Technology Management Certificate

Calendar Change: “to" and “from” sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a bold.

Business Technology Management

**CERTIFICATE**

Limitations
Students may complete either the Certificate in Business Technology Management or the Certificate in Business Analytics and Decision Making, but not both certificates.

Additionally, units applied to one certificate may not be applied to another Simon Fraser University certificate or diploma, as noted here [link to http://www.sfu.ca/students/calendar/2017/summer/fees-and-regulations/credentials-offered/definitions.html#cert].

Grade Requirements
In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.40 cumulative grade point average (CGPA) **2.30 SFU Business Course GPA** for entry into all 300 and 400 division business courses.

Program Requirements
Students complete a minimum of 26 to 28 units, **including 5 core courses, one of the TWO specializations, and an experiential component**, as below. The number of units will differ based on the BTM specialization selected by student (BTM-MIS = 28, BTM-Financial Services = 26)
### Core courses

**Students must complete all of:**

- CMPT 165—Introduction to the Internet and the World Wide Web (3) or IAT 201—Human-Computer Interaction and Cognition (3)
- and all of
  
  - BUS 338—Foundations of Innovation (3)
  - BUS 361—Project Management (3)
  - BUS 362—Business Process Analysis (4)
  - BUS 462—Business Analytics (3)
  - BUS 464—Business Data Management (3)
  - BUS 466—Web-Enabled Business (3)
  - BUS 468—Managing Information Technology for Business Value (3)
  - BUS 486—Leadership (3)

**Students must complete the courses associated with ONE of the TWO following specializations for the certificate:**

#### Management Information Systems Specialization

- BUS 465—Business Systems Development (3)

**And any TWO of:**

- BUS 338—Foundations of Innovation (3)
- BUS 466—Web Enabled Business (3)
- BUS 486—Leadership (3)

**One of:**

- CMPT 165—Introduction to the Internet and the World Wide Web (3)
- IAT 201—Human-Computer Interaction and Cognition (3)
- CMPT 120—Intro to Computing Science & Prog. (3)

#### Financial Services Specialization

**All Three of:**

- BUS 410—Financial Institution (3)
- BUS 413—Corporate Finance (4)
- BUS 418—International Financial Management (3)

and completion of one of the following approved experiential or service learning components.

Experience in a volunteer, internship or other non-coop work role related to Business and Technology. Prior approval from one of the Undergraduate Academic Directors in the Beedie School of Business is required through submission of a detailed outline of the April 2016
activities that will be undertaken. Upon completion of these activities, students must submit a detailed outline of the activities undertaken to the Undergraduate Academic Directors in the Beedie School of Business for final approval.

Successful completion of at least one Co-operative Education (Co-op) work term with a focus related to Business and Technology. Prior approval from one of the Undergraduate Academic Directors in the Beedie School of Business is required. Upon completion of the Co-op work term, final approval will be awarded by one of the Undergraduate Academic Directors in the Beedie School of Business after reviewing the final work report and supervisor evaluation. Co-op should be declared within or prior to the first term of entry into the Business Technology Management Certificate Program, and not later than 90 credits. Students who choose to satisfy the experiential learning component through Co-op will also need to plan for completion of either Co-op certification (3 work terms) or degree designation (4 or more work terms). For more information on Co-op please see the Business Co-operative Education section of the SFU calendar:
http://students.sfu.ca/calendar

April 2016
Calendar Entry Change
Beedie School of Business Undergraduate Program
Business Minor

Rationale for change:

Please note that the edits below are not on current (Summer 2017) calendar language, but on language that was approved for the Fall 2017 calendar.

Effective term and year:

Spring 2018

The following program(s) will be affected by these changes:
Business Minor

Calendar Change: "to" and "from" sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a bold.

Business Minor

Admission Requirements

A specific number of seats will be allocated each year to the Business Minor program. Please refer to the admission requirements section.

Grade Requirements

In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.00 overall SFU Business course grade point average for entry into all 300 and 400 division business minor courses.

For a course to be accepted as fulfilling a prerequisite, or for a lower division requirement, or for a core course to be accepted in a student's program in business, a student must have obtained a minimum grade of C- (C minus).

Letters of Permission

The Beedie School of Business does not normally approve letters of permission for students already enrolled at Simon Fraser University.

Program Requirements
Lower Division Requirements

April 2016
Students complete all of

BUS 200 - Business Fundamentals (3)
BUS 233 - Introduction to Business Law & Ethics (3)
BUS 237 - Introduction to Business Technology Management (3)
BUS 251 - Financial Accounting I (3)
BUS 272 - Behavior in Organizations (3)
ECON 103 - Principles of Microeconomics (4)
and one of*

ECON 105 - Principles of Macroeconomics (4)
ENGL 111W - Literary Classics in English (3)
ENGL 112W - Literature Now (3)
ENGL 113W - Literature and Performance (3)
ENGL 114W - Language and Purpose (3)
ENGL 115W - Literature and Culture (3)
ENGL 199W - Introduction to University Writing (3)
PHIL 100W - Knowledge and Reality (3)
PHIL 105 - Critical Thinking (3)
PHIL 120W - Moral Problems (3)
WL 101W - Writing About Literature (3)
WL 103W - Pre-Modern World Literature (3)
WL 104W - Modern World Literature (3)
* any one of these courses may be replaced by any three unspecified transfer units in English or in ENGL-Writing at the 100- or 200-level.

Upper Division Requirements

All upper division BUS courses have a prerequisite of 60 units but approved business minors may complete the designated upper division BUS courses upon completion of 45 units and acceptance into the business minor program.

Core Courses

At least 16 upper division BUS units** are required including all of the following core courses

Students must complete all core courses with a minimum C- grade.

BUS 311 - Introduction to Managerial Accounting and Financial Management (4)
BUS 341 - Fundamentals of Marketing (4)
Item 9

PROGRAM MODIFICATION

BUS 340 - International Business Strategy (4)
BUS 401 - Developing Organizational Opportunities (4)

** A minimum of eight upper division units used toward the minor must have been completed at Simon Fraser University.
Calendar Entry Change
Name of Program or Name of Faculty

ARCHAEOLOGY

Rationale for change:
Two newly created Archaeology courses (ARCH 312 and ARCH 313) need to be added to the 'Group IV' course group in the undergraduate program requirements.

Effective term and year: Spring 2018

The following program(s) will be affected by these changes:
Archaeology Major, Honours, Minor, Extended Minor,
Archaeology and Anthropology Joint Major

Calendar Change: "to" and "from" sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a bold.

Group IV - Topical Courses

ARCH 301 - Ancient Visual Art (3)
ARCH 312 - Greek Art and Archaeology (4)
ARCH 313 - Roman Art and Archaeology (4)
ARCH 321 - Select Regions in World Archaeology I (3)
ARCH 331 - Select Regions in World Archaeology II (3)
ARCH 332 - Special Topics in Archaeology I (3)
ARCH 333 - Special Topics in Archaeology II (3)
ARCH 348 - Archaeological Conservation (5)
ARCH 349 - Management of Archaeological Collections (5)
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 377 - Historical Archaeology (5)
ARCH 378 - Pacific Northwest North America (3)
ARCH 434 - Archaeological Field Methods (3)
ARCH 485 - Lithic Technology (5)

February 2016
Calendar Entry Change
Name of Program or Name of Faculty

<table>
<thead>
<tr>
<th>Rationale for change:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two newly created Archaeology courses need to be added to the undergraduate program Upper Division course requirements.</td>
</tr>
</tbody>
</table>

| Effective term and year: Spring 2018 |

<table>
<thead>
<tr>
<th>The following program(s) will be affected by these changes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archaeology Major, Honours, Archaeology and Anthropology Joint Major</td>
</tr>
</tbody>
</table>

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a **bold**.

**Archaeology Major**
Bachelor of Arts
...

Upper Division Requirements
Students complete at least 32 upper division archaeology units, which must include

- both Group I courses (ARCH 372, 471W)
- at least one Group II course
- at least one Group III course
- at least two Group IV courses, of which one must be ARCH 312, 313, 321, or 331 or 378
...

**Archaeology Honours**
Bachelor of Arts
...

Upper Division Requirements
Students complete at least 50 upper division archaeology units, which must include

- both Group I courses (ARCH 372, 471W)
- at least one Group II course
- at least one Group III course
- at least two Group IV courses, of which one must be ARCH 312, 313, 321, or 331 or 378

February 2016
and all of
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 499 - Honours Thesis (5)
ARCH 498 - Honours Reading (5)
...

Anthropology and Archaeology Joint Major
Bachelor of Arts
...

Upper Division Archaeology Requirements

Students complete at least 24 archaeology units, including

both Group I courses (ARCH 372, 471W)
at least one Group II course
at least one Group III course
at least two Group IV courses, of which one must be ARCH 312, 313, 321, or 331 or 378
...

February 2016
Calendar Entry Change
Name of Program or Name of Faculty

ARCHAEOLOGY

Rationale for change:
Two newly created Archaeology courses need to be added to the undergraduate program requirements.

Effective term and year: Spring 2018

The following program(s) will be affected by these changes:
Archaeology Major, Honours, Minor, Extended Minor,
Archaeology and Anthropology Joint Major

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a bold.

Archaeology Major
Bachelor of Arts

Students should consult with the department's undergraduate advisor when formally declaring an archaeology major.

Program Requirements

Students must complete 120 units, including 45 upper division units, as specified below.

Lower Division Requirements

Students complete all of
ARCH 131 - Human Origins (3)
ARCH 201 - Reconstructing the Human Past (4)
ARCH 272W - Archaeology of the Old World (4)
ARCH 273 - Archaeology of the New World (4)

and two of
BISC 102 - General Biology (4)
EVSC 100 - Introduction to Environmental Science (3)
FNST 101 - Introduction to First Nations Studies (3)
GEOG 111 - Earth Systems (3)
GEOG 255 - Geographical Information Science I (3)
REM 100 - Global Change (3)
SA 101 - Introduction to Anthropology (A) (4)
Upper Division Requirements

Students complete at least 32 upper division archaeology units, which must include

- both Group I courses (ARCH 372, 471W)
- at least one Group II course
- at least one Group III course
- at least two Group IV courses, of which one must be ARCH 312, 313, 321, or 331 or 378

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I - Core Courses

ARCH 372 - Material Culture Analysis (5)
ARCH 471W - Archaeological Theory (5)

Group II - Environmental Archaeology Courses

ARCH 329 - Special Topics in Environmental Archaeology (3)
ARCH 340 - Zooarchaeology (5)
ARCH 363 - Landscape Archaeology (3)
ARCH 365 - Archaeological Perspectives on Human Ecology (3)
ARCH 375 - From Soup to Nuts: The Archaeology of Food (3)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 386 - Archaeological Resource Management (3)
ARCH 388 - Geoarchaeology (5)
ARCH 390 - Archaeobotany (5)
ARCH 428 - Soil Micromorphology (5)

Group III - Biological Anthropology Courses

ARCH 322 - Special Topics in Biological Anthropology I (3)
ARCH 323 - Special Topics in Biological Anthropology II (3)
ARCH 344 - Primate Behaviour (3)
ARCH 373 - Human Osteology (5)
ARCH 385 - Paleoanthropology (5)
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)

Group IV - Topical Courses

ARCH 301 - Ancient Visual Art (3)
ARCH 312 - Greek Art and Archaeology (4)
ARCH 313 - Roman Art and Archaeology (4)
ARCH 321 - Select Regions in World Archaeology I (3)
ARCH 331 - Select Regions in World Archaeology II (3)
ARCH 332 - Special Topics in Archaeology I (3)
ARCH 333 - Special Topics in Archaeology II (3)
ARCH 348 - Archaeological Conservation (5)
ARCH 349 - Management of Archaeological Collections (5)
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 377 - Historical Archaeology (5)
ARCH 378 - Pacific Northwest North America (3)
ARCH 434 - Archaeological Field Methods (3)
ARCH 485 - Lithic Technology (5)

... 

Archaeology Honours
Bachelor of Arts
Admission Requirements

Prior to application to the honours program, the following is required:

A minimum Archaeology GPA of 3.33
Completion of ARCH 372, with a grade of B or better
A minimum CGPA of 3.00
Departmental permission to enter program

Minimum Grade Requirements

To remain in the honours program, the following is required:

Maintain a minimum 3.00 CGPA
Maintain a minimum 3.00 Archaeology GPA

Program Requirements

Honours students must successfully complete 132 units, of which 60 units must be at the upper division level and of these, a minimum of 50 units must be in upper division archaeology courses. Honours students must complete all course requirements for the major program as well as ARCH 376, 498, and 499.

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I - Core Courses
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARCH 372</td>
<td>Material Culture Analysis</td>
<td>(5)</td>
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<tr>
<td>ARCH 471W</td>
<td>Archaeological Theory</td>
<td>(5)</td>
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**Group II - Environmental Archaeology Courses**

<table>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>ARCH 329</td>
<td>Special Topics in Environmental Archaeology</td>
<td>(3)</td>
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<tr>
<td>ARCH 340</td>
<td>Zooarchaeology</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 363</td>
<td>Landscape Archaeology</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 365</td>
<td>Archaeological Perspectives on Human Ecology</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 375</td>
<td>From Soup to Nuts: The Archaeology of Food</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 383</td>
<td>Molecular Bioarchaeology</td>
<td>(3)</td>
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<tr>
<td>ARCH 386</td>
<td>Archaeological Resource Management</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 388</td>
<td>Geoarchaeology</td>
<td>(5)</td>
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<tr>
<td>ARCH 390</td>
<td>Archaeobotany</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 428</td>
<td>Soil Micromorphology</td>
<td>(5)</td>
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</table>

**Group III - Biological Anthropology Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARCH 322</td>
<td>Special Topics in Biological Anthropology I</td>
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<td>ARCH 323</td>
<td>Special Topics in Biological Anthropology II</td>
<td>(3)</td>
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<td>ARCH 344</td>
<td>Primate Behaviour</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 373</td>
<td>Human Osteology</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 385</td>
<td>Paleoanthropology</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 442</td>
<td>Forensic Anthropology</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 452</td>
<td>Introduction to Paleopathology</td>
<td>(5)</td>
</tr>
</tbody>
</table>

**Group IV - Topical Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 301</td>
<td>Ancient Visual Art</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 312</td>
<td>Greek Art and Archaeology</td>
<td>(4)</td>
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<tr>
<td>ARCH 313</td>
<td>Roman Art and Archaeology</td>
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<td>ARCH 321</td>
<td>Select Regions in World Archaeology I</td>
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<td>ARCH 331</td>
<td>Select Regions in World Archaeology II</td>
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<td>ARCH 332</td>
<td>Special Topics in Archaeology I</td>
<td>(3)</td>
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<tr>
<td>ARCH 333</td>
<td>Special Topics in Archaeology II</td>
<td>(3)</td>
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<tr>
<td>ARCH 348</td>
<td>Archaeological Conservation</td>
<td>(5)</td>
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<tr>
<td>ARCH 349</td>
<td>Management of Archaeological Collections</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 376</td>
<td>Quantitative Methods in Archaeology</td>
<td>(5)</td>
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<td>ARCH 377</td>
<td>Historical Archaeology</td>
<td>(5)</td>
</tr>
<tr>
<td>ARCH 378</td>
<td>Pacific Northwest North America</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 434</td>
<td>Archaeological Field Methods</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 485</td>
<td>Lithic Technology</td>
<td>(5)</td>
</tr>
</tbody>
</table>

Lower Division Requirements

*February 2016*
Students complete all of
ARCH 131 - Human Origins (3)
ARCH 201 - Reconstructing the Human Past (4)
ARCH 272W - Archaeology of the Old World (4)
ARCH 273 - Archaeology of the New World (4)
and two of
BISC 102 - General Biology (4)
EVSC 100 - Introduction to Environmental Science (3)
FNST 101 - Introduction to First Nations Studies (3)
GEOG 111 - Earth Systems (3)
GEOG 255 - Geographical Information Science I (3)
REM 100 - Global Change (3)
SA 101 - Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete at least 50 upper division archaeology units, which must include

both Group I courses (ARCH 372, 471W)
at least one Group II course
at least one Group III course
at least two Group IV courses, of which one must be ARCH 312, 313, 321, or 331 or 378

and all of
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 499 - Honours Thesis (5)
ARCH 498 - Honours Reading (5)
...

Anthropology and Archaeology Joint Major
Bachelor of Arts
Program Requirements

Students complete 120 units, including 45 upper division units, as specified below. Students may opt for a bachelor of arts degree from either the Faculty of Arts and Social Sciences or the Faculty of Environment. Faculty requirements will be governed by the faculty from which the student chooses to complete a degree.
Lower Division Anthropology Requirements

Students complete a minimum of 14 units, including all of
SA 101 - Introduction to Anthropology (A) (4)
SA 201W - Anthropology and Contemporary Life (A) (4)
SA 255 - Introduction to Social Research (SA) (4)

and one additional 200 division course SA course designated (A), (S) or (SA).

Lower Division Archaeology Requirements

Students complete a total of 15 units, including all of
ARCH 131 - Human Origins (3)
ARCH 201 - Reconstructing the Human Past (4)
ARCH 272W - Archaeology of the Old World (4)
ARCH 273 - Archaeology of the New World (4)

Upper Division Anthropology Requirements

Students complete a total of at least 20 units of anthropology courses, including all of
SA 301 - Contemporary Ethnography (A) (4)
SA 356W - Ethnography and Qualitative Methods (SA) (4)
SA 402 - The Practice of Anthropology (A) (4)

and eight additional upper division units chosen from SA courses designated anthropology (A).

SA 486 is highly recommended.

No more than 4 units of Directed Readings and no more than 15 upper division units transferred from another institution may be used towards completion.

Upper Division Archaeology Requirements

Students complete at least 24 archaeology units, including

both Group I courses (ARCH 372, 471W)

at least one Group II course

at least one Group III course

at least two Group IV courses, of which one must be ARCH 312, 313, 321, or 331 or 378

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I - Core Courses

ARCH 372 - Material Culture Analysis (5)
ARCH 471W - Archaeological Theory (5)
Group II - Environmental Archaeology Courses

ARCH 329 - Special Topics in Environmental Archaeology (3)
ARCH 340 - Zooarchaeology (5)
ARCH 363 - Landscape Archaeology (3)
ARCH 365 - Archaeological Perspectives on Human Ecology (3)
ARCH 375 - From Soup to Nuts: The Archaeology of Food (3)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 386 - Archaeological Resource Management (3)
ARCH 388 - Geoarchaeology (5)
ARCH 390 - Archaeobotany (5)
ARCH 428 - Soil Micromorphology (5)

Group III - Biological Anthropology Courses

ARCH 322 - Special Topics in Biological Anthropology I (3)
ARCH 323 - Special Topics in Biological Anthropology II (3)
ARCH 344 - Primate Behaviour (3)
ARCH 373 - Human Osteology (5)
ARCH 385 - Paleoanthropology (5)
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)

Group IV - Topical Courses

ARCH 301 - Ancient Visual Art (3)
ARCH 312 - Greek Art and Archaeology (4)
ARCH 313 - Roman Art and Archaeology (4)
ARCH 321 - Select Regions in World Archaeology I (3)
ARCH 331 - Select Regions in World Archaeology II (3)
ARCH 332 - Special Topics in Archaeology I (3)
ARCH 333 - Special Topics in Archaeology II (3)
ARCH 348 - Archaeological Conservation (5)
ARCH 349 - Management of Archaeological Collections (5)
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 377 - Historical Archaeology (5)
ARCH 378 - Pacific Northwest North America (3)
ARCH 434 - Archaeological Field Methods (3)
ARCH 485 - Lithic Technology (5)

Archaeology Minor
Lower Division Requirements

February 2016
Students complete a total of nine units, including both of
ARCH 131 - Human Origins (3)
ARCH 201 - Reconstructing the Human Past (4)

and one of
ARCH 272W - Archaeology of the Old World (4)
ARCH 273 - Archaeology of the New World (4)

Upper Division Requirements

Students complete a total of at least 16 units of archaeology, which must include one course from each of groups I, II, III and IV listed below.

Group I - Core Courses

ARCH 372 - Material Culture Analysis (5)
ARCH 471W - Archaeological Theory (5)

Group II - Environmental Anthropology Courses

ARCH 329 - Special Topics in Environmental Archaeology (3)
ARCH 340 - Zooarchaeology (5)
ARCH 363 - Landscape Archaeology (3)
ARCH 365 - Archaeological Perspectives on Human Ecology (3)
ARCH 375 - From Soup to Nuts: The Archaeology of Food (3)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 386 - Archaeological Resource Management (3)
ARCH 388 - Geoarchaeology (5)
ARCH 390 - Archaeobotany (5)
ARCH 428 - Soil Micromorphology (5)

Group III - Biological Archaeology Courses

ARCH 322 - Special Topics in Biological Anthropology I (3)
ARCH 323 - Special Topics in Biological Anthropology II (3)
ARCH 344 - Primate Behaviour (3)
ARCH 373 - Human Osteology (5)
ARCH 385 - Paleoanthropology (5)
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)

Group IV - Topical Courses

ARCH 301 - Ancient Visual Art (3)
ARCH 312 - Greek Art and Archaeology (4)
ARCH 313 - Roman Art and Archaeology (4)
ARCH 321 - Select Regions in World Archaeology I (3)
ARCH 331 - Select Regions in World Archaeology II (3)
ARCH 332 - Special Topics in Archaeology I (3)
ARCH 333 - Special Topics in Archaeology II (3)
ARCH 348 - Archaeological Conservation (5)
ARCH 349 - Management of Archaeological Collections (5)
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 377 - Historical Archaeology (5)
ARCH 378 - Pacific Northwest North America (3)
ARCH 434 - Archaeological Field Methods (3)
ARCH 485 - Lithic Technology (5)

...  

Archaeology Extended Minor

This program consists of the lower division requirements for an archaeology major and the upper division requirements for an archaeology minor (see below). Programs must be approved by the department advisor.

Program Requirements

This program consists of the lower division requirements for an archaeology major and the upper division requirements for an archaeology minor (see below). Programs must be approved by the department advisor.

Lower Division Requirements

Students complete all of
ARCH 131 - Human Origins (3)
ARCH 201 - Reconstructing the Human Past (4)
ARCH 272W - Archaeology of the Old World (4)
ARCH 273 - Archaeology of the New World (4)

and two of
BISC 102 - General Biology (4)
EVSC 100 - Introduction to Environmental Science (3)
FNST 101 - Introduction to First Nations Studies (3)
GEOG 111 - Earth Systems (3)
GEOG 255 - Geographical Information Science I (3)
REM 100 - Global Change (3)
SA 101 - Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete a total of at least 16 units of archaeology, which must include one course from each of groups I, II, III and IV listed below.
Group I - Core Program

ARCH 372 - Material Culture Analysis (5)
ARCH 471W - Archaeological Theory (5)

Group II - Environmental Archaeology Courses

ARCH 329 - Special Topics in Environmental Archaeology (3)
ARCH 340 - Zooarchaeology (5)
ARCH 363 - Landscape Archaeology (3)
ARCH 365 - Archaeological Perspectives on Human Ecology (3)
ARCH 375 - From Soup to Nuts: The Archaeology of Food (3)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 386 - Archaeological Resource Management (3)
ARCH 388 - Geoarchaeology (5)
ARCH 390 - Archaeobotany (5)
ARCH 428 - Soil Micromorphology (5)

Group III - Biological Anthropology Courses

ARCH 322 - Special Topics in Biological Anthropology I (3)
ARCH 323 - Special Topics in Biological Anthropology II (3)
ARCH 344 - Primate Behaviour (3)
ARCH 373 - Human Osteology (5)
ARCH 385 - Paleoanthropology (5)
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)

Group IV - Topical Courses

ARCH 301 - Ancient Visual Art (3)
ARCH 312 - Greek Art and Archaeology (4)
ARCH 313 - Roman Art and Archaeology (4)
ARCH 321 - Select Regions in World Archaeology I (3)
ARCH 331 - Select Regions in World Archaeology II (3)
ARCH 332 - Special Topics in Archaeology I (3)
ARCH 333 - Special Topics in Archaeology II (3)
ARCH 348 - Archaeological Conservation (5)
ARCH 349 - Management of Archaeological Collections (5)
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 377 - Historical Archaeology (5)
ARCH 378 - Pacific Northwest North America (3)
ARCH 434 - Archaeological Field Methods (3)
ARCH 485 - Lithic Technology (5)
Rationale for change:
Changes to the BSc major program to reflect changes in the upper division laboratory course pre-requisites.

Effective term and year: **Spring 2017**

The following program(s) will be affected by these changes:
**Health Sciences major – Bachelor of Science – Life Sciences Concentration**

**Calendar Change:** “to” and “from” sections are not required. All deletions should be crossed out as follows: *sample.* All additions should be marked by a **bold.**

**Health Sciences Major**

**Bachelor of Science**

......

**Life Sciences Concentration Upper Division Requirements**

Students complete all of

- HSCI 305 - The Canadian Health System (3)
- HSCI 321 - Human Pathophysiology (3)
- HSCI 324 - Human Population Genetics and Evolution (3)
- HSCI 330 - Exploratory Strategies in Epidemiology (3)
- MBB 308 - Molecular Biology Laboratory (3)
- MBB 331 - Molecular Biology (3)

and one of

- STAT 302 - Analysis of Experimental and Observational Data (3)
- STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

and one of

- HSCI 319W - Applied Health Ethics (3)
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>HSCI 327</td>
<td>Global Health Ethics (3)</td>
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<td>HSCI 323 - Principles of Pharmacology and Toxicology (3)</td>
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<td>HSCI 338 - Animal Virology (3)</td>
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<td>HSCI 426 - Immune System I: Basis of Innate and Adaptive Immunity (4)</td>
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<td>BISC 357 - Gene Cloning</td>
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<td>MBB 308 - Molecular Biology Laboratory</td>
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<td>MBB 309 W - Biochemistry Laboratory</td>
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<td>HSCI 440 - Cell Pathophysiology Laboratory</td>
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<td>HSCI 427 - Immune System II: Immune Responses in Health and Disease (3)</td>
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<td>HSCI 439 - Pathogenesis of Human and Animal Viral Infectious Diseases (3)</td>
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<td>HSCI 474 - Seminar in Neuropharmacology</td>
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<td>HSCI 475 - Seminar in Molecular Mechanisms of Epigenetics (3)</td>
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<td>HSCI 476 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)</td>
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<td>HSCI 477 - Seminar in Vaccine Immunology</td>
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<td>HSCI 478 - Seminar in Molecular Epidemiology of Infectious Diseases (3)</td>
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</table>
Calendar Entry Change
Name of Program or Name of Faculty

Rationale for change:

Health Science Honours – Bachelor of Science
Changes to the BSc major program to reflect changes in the upper division laboratory course pre-requisites.

Effective term and year: **Spring 2018**

The following program(s) will be affected by these changes:
Health Sciences Honours – Bachelor of Science - Life Sciences Concentration

**Calendar Change:** “to” and “from” sections are not required. All deletions should be crossed out as follows: sample. All additions should be marked by a **bold**.

**Health Sciences Major**

**Bachelor of Science**

......

**Life Sciences Concentration Upper Division Requirements**

Students complete all of

- HSCI 305 - The Canadian Health System (3)
- HSCI 321 - Human Pathophysiology (3)
- HSCI 324 - Human Population Genetics and Evolution (3)
- HSCI 330 - Exploratory Strategies in Epidemiology (3)
- MBB 308 - Molecular Biology Laboratory (3)
- MBB 331 - Molecular Biology (3)

and one of
STAT 302 - Analysis of Experimental and Observational Data (3)
STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

and one of

HSCI 319W - Applied Health Ethics (3)
HSCI 327 - Global Health Ethics (3)

And one of

HSCI 323 - Principles of Pharmacology and Toxicology (3)
HSCI 338 - Animal Virology (3)
HSCI 426 - Immune System I: Basis of Innate and Adaptive Immunity (4)

And one of

BISC 357 - Gene Cloning
MBB 308 - Molecular Biology Laboratory
MBB 309 W - Biochemistry Laboratory

And one of

HSCI 440 - Cell Pathophysiology Laboratory (4)
HSCI 441 - Virology Laboratory (4)
HSCI 442 - Immunology Laboratory (4)

And two of

HSCI 427 - Immune System II: Immune Responses in Health and Disease (3)
HSCI 439 - Pathogenesis of Human and Animal Viral Infectious Diseases (3)
HSCI 474 - Seminar in Neuropharmacology (3)
HSCI 475 - Seminar in Molecular Mechanisms of Epigenetics (3)
HSCI 476 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)
HSCI 477 - Seminar in Vaccine Immunology (3)
HSCI 478 - Seminar in Molecular Epidemiology of Infectious Diseases (3)
HSCI 482 - Senior Seminar in Infectious Diseases (3)

....

February 2016
MEMORANDUM

ATTENTION: Senate

FROM: Jeff Derksen,
Acting Chair of Senate Graduate
Studies Committee (SGSC)

RE: Course Changes

DATE: June 22, 2017

For information:
Acting under delegated authority and at its meeting of June 5, 2017 SGSC approved the following course changes effective Spring 2018:

Faculty of Arts and Social Science
1) Unit change for HIST 898 and HIST 899

Beedie School of Business
2) Unit change for BUS 553

Faculty of Education
3) Unit change for EDUC 899

Faculty of Science
4) Prerequisite changes for STAT 641, STAT 642, STAT 645, STAT 675 and STAT 685
5) Prerequisite and description change for STAT 652
6) Unit change for BPK 899

Special Arrangements
7) Unit and title changes for SAR 891, SAR 892, SAR 893, SAR 894 and SAR 895
Graduate Course Change

Attach a separate document if more space is required.

<table>
<thead>
<tr>
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<th>Effective Term and Year</th>
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<tbody>
<tr>
<td>HIST 898</td>
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<td>Spring 2018</td>
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Course Title: MA Thesis

Rationale for Change:
The number of units awarded for a thesis should be commensurate with the greater effort required to complete a thesis and to be more consistent with the minimum university unit requirements for a Master's.

Proposed Changes (Check all that apply)
- [ ] Course number
- [ ] Units*
- [ ] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other

Complete only the fields to be changed

<table>
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<td>Prerequisite</td>
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* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.
REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

### CONTACT PERSON

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<tr>
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<tr>
<td>History</td>
<td>Jeremy Brown</td>
<td><a href="mailto:jeremy_brown@sfu.ca">jeremy_brown@sfu.ca</a></td>
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### DEPARTMENTAL APPROVAL

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<th>Department Graduate Program Committee</th>
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<th>Date</th>
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<tr>
<td>Jeremy Brown</td>
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<td>28 March 2017</td>
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<tr>
<th>Department Chair</th>
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<tr>
<td>Jennifer Spear</td>
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<tr>
<td>Lisa Shapiro</td>
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### SENATE GRADUATE STUDIES COMMITTEE APPROVAL

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<tr>
<td>Jeff Driessen</td>
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ADMINISTRATIVE SECTION (for DGS office only)

- Course Attributes: 
- Course Attribute Values: 
- Instruction Mode: 
- Attendance Types: 

If different from regular units:
- Academic Progress Units: 
- Financial Aid Progress Units:
Graduate Course Change

Attach a separate document if more space is required.

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<td>Spring 2018</td>
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Course Title
PhD Thesis

Rationale for Change:
The number of units awarded for a thesis should be commensurate with the greater effort required to complete a thesis and to match MA Thesis.

Proposed Changes (Check all that apply)

- [ ] Course number
- [ ] Units*
- [ ] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other

Complete only the fields to be changed

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- Course Attributes: ______________
- Course Attribute Value: ______________
- Instruction Mode: ______________
- Attendance Type: ______________

If different from regular units:
- Academic Progress Units: ______________
- Financial Aid Progress Units: ______________
Graduate Course Change

Attach a separate document if more space is required.

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<td>Spring 2018</td>
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Course Title: Business Analytics

Rationale for Change:
Doubling the number of units would provide necessary additional time for students to learn and use increasingly sophisticated software tools by doubling the contact hours. This change would also highlight the importance of visual analytics in business. Please see attached rationale for change page.

Proposed Changes [Check all that apply]

- [ ] Course number
- [ ] Units
- [x] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other

Complete only the fields to be changed

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<tr>
<td>Beedie Graduate Programs</td>
<td>Lesley McKay</td>
<td><a href="mailto:buscoord@sfu.ca">buscoord@sfu.ca</a></td>
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**DEPARTMENTAL APPROVAL**

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**ADMINISTRATIVE SECTION (for DOS office only)**

- Course Attribute:        
- Course Attribute Value:  
- Instruction Mode:        
- Attendance Type:         

If different from regular units:
- Academic Progress Units:  
- Financial Aid Progress Units:  

Page 2 of 2 Revised May 2015
Rationale for increasing the BUS553 from 2 credits to 4 credits.

Increasing the number of credits for BUS553 from 2 credit to 4 differentially impacts students in the GDBA program and the Part-Time MBA.

In the GDBA program a series of changes have created additional flexibility for students to create a personalized study plan that is more closely aligned with their needs and need not include more than the mandated 24 credits. This plan is developed in consultation with the program director. For reference these changes include:

- The addition of BUSS11-Business Ethics (2 credits)
- The addition of BUS570-Project Management (4 credits)
- The change of BUS554-Managing Information Technology (from 2 credits to 4)
- As well as the proposed change of BUS553 from 2 credits to 4 credits.

The proposed change of credits for BUS553 will increase the pool of credits from which students can develop their study plan from 32 to 34 credits of regularly scheduled courses, enhancing student choice without increasing student cost.

In the Part-Time MBA program the change from 2 credits to 4 credits will increase the number of credits taken from 56 to 58 for students beginning in 2018. An alternative considered by the committee was to change the recently added “Cross-Cultural Experience” to the First Nations communities to a non-credit course; however, these cross-cultural experiences are valuable learning opportunities and highly rated by student participants. Offering this course for credit is an important signal to all stakeholders and ensures a high standard of academic rigour obtains, while linking funding to tuition ensures that the course will be sustainable financially.
BUS 553 - Rational of the extension from 6 weeks to 13 weeks

There are two important rationales for extending this course from 6 to 13 weeks. The first reason is simply because there is a growing necessity in the market to have business managers with analytical skills and critical thinking abilities than ever before. Today, companies have data in greater variety, volume and velocity and this trend is only going to continue. Managers need abilities and skills to use sophisticated analytical tools to understand and make informed decisions using data.

The second important reason for the extension of this course is because of the course currently only covers the very basics of business analytics. The figure below (from SAS) shows increasing levels of business analytics starting with basic reporting and growing to statistical applications and optimization. Currently the 6 week course only covers content up to mid-level analytics (“Statistical Analysis”). The 13 week course would allow coverage of business analytics to levels of “forecasting” and “predictive analytics” and would also highlight the growing importance of visual analytics used in business today.
### Graduate Course Change

Attach a separate document if more space is required.

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<th>Course Subject/Number</th>
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<th>Effective Term and Year</th>
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<td>10</td>
<td>Spring 2018</td>
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**Course Title:** Doctoral Thesis  

**Rationale for Change:**  
The change in unit value more accurately reflects the value of the course relative to the overall credit value of the doctoral degree. Changing the credit value of EDUC 899 will also enable programs to think about number of credits assigned to coursework.  

**Proposed Changes (Check all that apply):**  

- **Course number**  
- **Units**  
- **Title**  
- **Description**  
- **Prerequisite**  
- **Other**

**Complete only the fields to be changed:**

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<th>Department Graduate Program Committee</th>
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FACULTY APPROVAL

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<tr>
<td>Dr. Shawn Bullock</td>
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: ______________________
Course Attribute Value: ______________________
Instruction Mode: ______________________
Attendance Type: ______________________

If different from regular units:
Academic Progress Units: ______________________
Financial Aid Progress Units: ______________________
March 28, 2017

Attn: Peter Ruben, Faculty of Science Graduate Studies Committee

We would like to allow BUEC 333 as an alternative pre-requisite to the following courses:

STAT 641 (Introduction to Statistical Computing and Exploratory Data Analysis - R)
STAT 642 (Introduction to Statistical Computing and Exploratory Data Analysis - SAS)
STAT 645 (Applied Multivariate Analysis)
STAT 675 (Applied Discrete Data Analysis)
STAT 685 (Applied Time Series Analysis)

Effective term: 1181

Rationale: BUEC 333 is sufficient preparation for the 600-level courses that currently require STAT 302 or 305 as a pre-requisite.

Calendar Wording: Please add “or BUEC 333” to the list of acceptable pre-requisites to each of the courses listed above.

Sincerely,
Tim Swartz
Graduate Course Change

Attach a separate document if more space is required.

<table>
<thead>
<tr>
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Rationale for Change:
slight problems discovered under the Calendar review process with our new course proposal

Proposed Changes (Check all that apply)

- [ ] Course number
- [ ] Units*  
- [ ] Title    
- [x] Description  
- [x] Prerequisite  
- [ ] Other

Complete only the fields to be changed

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<td>An introduction to the essential modern supervised and unsupervised statistical learning methods. Topics include review of linear regression, classification, statistical error measurement, flexible regression and classification methods, clustering and dimension reduction.</td>
<td>An introduction to the essential modern supervised and unsupervised statistical learning methods. Topics include review of linear regression, classification, statistical error measurement, flexible regression and classification methods, clustering and dimension reduction. Open only to graduate students in departments other than Statistics &amp; ActScl.</td>
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<td>Stat 302 or Stat 305 or Stat 350 or equivalent.</td>
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<tr>
<td>Statistics and Actuarial Science</td>
<td>Sadika Jungic</td>
<td><a href="mailto:sjungic@sfu.ca">sjungic@sfu.ca</a></td>
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<tbody>
<tr>
<td>Tim Swartz</td>
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<tr>
<td>Department Chair</td>
<td>Signature</td>
<td>Date</td>
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<td>Jeff DeKser</td>
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### ADMINISTRATIVE SECTION (for DGS office only)

- Course Attribute: 
- Course Attribute Value: 
- Instruction Mode: 
- Attendance Type: 
- If different from regular units: 
  - Academic Progress Units: 
  - Financial Aid Progress Units: 

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Page 2 of 2 Revised May 2015
Graduate Course Change

Attach a separate document if more space is required.

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<td>6</td>
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Course Title: PhD Thesis

Rationale for Change:

As part of the Degree Audit Progress. Brings the PhD degree units to 30 units, which is more consistent with the MSc degree (30 units; 12 units of courses, 18 units of thesis work).

Proposed Changes (Check all that apply)

☐ Course number  ✔ Units*  ☐ Title  ☐ Description  ☐ Prerequisite  ☐ Other

Complete only the fields to be changed

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<tr>
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<tr>
<td>Department Chair</td>
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<tr>
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<td>Peter Ruben</td>
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<td>Jeff Jackson</td>
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If different from regular units:
Academic Progress Units: _______________
Financial Aid Progress Units: _______________

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<td>Attendance Type: _________________________</td>
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MEMORANDUM

ATTENTION: Senate Graduate Studies Committee

FROM: Peter Liljedahl,
Graduate Chair of Special Arrangements

RE: Course Changes SAR 891, 892, 893, 894 and 895

May 25, 2017

The Special Arrangements program requests the following unit and title changes for SAR 891, 892, 893, 894 and 895. These changes will assist students who need to take additional course units outside their home department and provide clarity that these courses are individualized and not taken with other students.
Graduate Course Change

Attach a separate document if more space is required.

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**Course Title**: Special Topics

**Rationale for Change**: This course is not taken by multiple students on the same topic. The reading list and assignments are agreed upon on an individual basis between the student and their supervisor committee or faculty member directing the course. A one unit course is necessary to help facilitate students taking a course outside their home department and doing additional course work to bring the course units to be comparable to a course in their home department.

**Proposed Changes (Check all that apply)**

- [ ] Course number
- [x] Units*
- [x] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other

**Complete only the fields to be changed**

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REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON
Department / School / Program
SAR
Contact name
Krista Gerlich-Fitzgerald
Contact email
sargrad@sfu.ca

DEPARTMENTAL APPROVAL
Department Graduate Program Committee
Signature
Date
Department Chair
Signature
Date

FACULTY APPROVAL
Faculty Graduate Studies Committee (FGSC)
Signature
Date
Peter Liljedahl
MAY 18 2017

SENATE GRADUATE STUDIES COMMITTEE APPROVAL
Senate Graduate Studies Committee (SGSC)
Signature
Date
15 Jun 2017

ADMINISTRATIVE SECTION (for DGS office only)
Course Attribute:
Course Attribute Value:
Instruction Mode:
Attendance Type:
If different from regular units:
Academic Progress Units:
Financial Aid Progress Units:
## Graduate Course Change

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**Course Title**

Special Topics

**Rationale for Change:**

This course is not taken by multiple students on the same topic. The reading list and assignments are agreed upon on an individual basis between the student and their supervisor committee or faculty member directing the course.

**Proposed Changes (Check all that apply)**

- [ ] Course number
- [x] Units*
- [x] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other

Complete only the fields to be changed

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<td>Krista Gerlich-Fitzgerald</td>
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### SENATE GRADUATE STUDIES COMMITTEE APPROVAL

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### Course Title

Special Topics

### Rationale for Change:

This course is not taken by multiple students on the same topic. The reading list and assignments are agreed upon on an individual basis between the student and their supervisor committee or faculty member directing the course.

### Proposed Changes (Check all that apply)

- [ ] Course number
- [x] Units*
- [x] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other ____________

Complete only the fields to be changed

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**Graduate Course Change**

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**Course Title**

Special Topics

**Rationale for Change:**

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**Proposed Changes (Check all that apply)**

- [ ] Course number  
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- Course Attribute Value: 
- Instruction Mode: 
- Attendance Type: 

If different from regular units:
- Academic Progress Units: 
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Graduate Course Change

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Rationale for Change:
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Proposed Changes [Check all that apply]

- [ ] Course number
- [x] Units*
- [x] Title
- [ ] Description
- [ ] Prerequisite
- [ ] Other

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Peter Liljedahl

MAY 18 2017

If different from regular units:

Academic Progress Units: __________

Financial Aid Progress Units: __________

ADMINISTRATIVE SECTION (for DOS office only)

Course Attribute: __________

Course Attribute Value: __________

Instruction Mode: __________

Attendance Type: __________
MEMORANDUM

ATTENTION: Senate
FROM: Jeff Derksen,
Acting Chair of Senate Graduate
Studies Committee (SGSC)
RE: New Course Proposals

DATE: June 22, 2017

For information:
Acting under delegated authority and at its meeting of June 5, 2017 SGSC approved the following new course proposals effective Spring 2018:

Faculty of Education
  1) EDUC 740 Issues in Pre-Service Teacher Education

Faculty of Environment
  2) ECO 630 Applied Research Project I
  3) ECO 640 Applied Research Project II

Faculty of Science
  4) BPK 895 MSc Proposal
  5) BPK 896 PhD Comprehensive Exam
  6) BPK 897 PhD Seminar
MEMO

ATTENTION: Senate Graduate Studies Committee

FROM: Shawn Bullock, Associate Dean, Graduate Studies in Education

RE: New Graduate Course Proposal – EDUC 740

DATE: 2017 April 19

The following new course was approved by the Faculty of Education and is forwarded to the Senate Graduate Studies Committee for approval. This curriculum item should be effective for the Spring 2018 term. Please include on the next SGSC agenda.

New Course: EDUC 740, Issues in Pre-Service Teacher Education

Shawn M. Bullock, Ph.D., P. Phys.
Associate Dean
Graduate Studies in Education
# New Graduate Course Proposal

Attach a separate document if more space is required.

<table>
<thead>
<tr>
<th>Course Subject (eg. PSYC)</th>
<th>EDUC 740</th>
<th>Number (eg. 810)</th>
<th>Units (eg. 4)</th>
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<tbody>
<tr>
<td>Issues in Pre-Service Teacher Education</td>
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<tr>
<td>Course description for SFU Calendar *</td>
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<tr>
<td>See attached document.</td>
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Rationale for introduction of this course

See attached document.

<table>
<thead>
<tr>
<th>Term of initial offering</th>
<th>Spring 2018</th>
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<tbody>
<tr>
<td>Course delivery (eg. 3 hrs/week for 13 weeks)</td>
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<td>4 hrs/week for 13 weeks</td>
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<td>Estimated enrollment/offering</td>
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</table>

Equivalent courses (These are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.)

N/A

Prerequisite and/or Corequisite **

none.

Educational Goals (optional)

See attached document

<table>
<thead>
<tr>
<th>Criminal record check required?</th>
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<tr>
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<td>If yes, identify which undergraduate course and what the additional course requirements are for graduate students:</td>
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*** If yes, then add this requirement as a prerequisite.

**** This applies to a Special Topics or Directed Readings course.
RESOURCES
If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course
Pooja Dharamshi, Shawn Bullock, Allan MacKinnon

Additional faculty members, space, and/or specialized equipment required in order to offer this course

CONTACT PERSON
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<td>Faculty of Education</td>
<td>Pooja Dharamshi</td>
<td><a href="mailto:pooja_dharamshi@sfu.ca">pooja_dharamshi@sfu.ca</a></td>
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DEPARTMENTAL APPROVAL
REMINDER: New courses must be identified on a cover memo and confirmed as approved when submitted to FGSC/SGSC. Remember to also include the course outline.

Non-departmentalized faculties need not sign

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Library review done? ☑ YES
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

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ADMINISTRATIVE SECTION (for DGS office only)
Course Attribute: ______________________
Course Attribute Value: __________________
Instruction Mode: ________________________
Attendance Type: _______________________
New Graduate Course Proposal
Long Responses

Course Title: Issues in Pre-Service Teacher Education

Course Description for SFU Calendar

Several local and international issues related to teacher education are examined, including longstanding criticisms and more recent concerns. Specific topics will be explored beginning with a brief history of teacher education and its "place" in the university, better understanding varying models for teacher education programs, exploring teacher education as a site for social justice and democracy, and looking at the work of teacher educators, those who teach teachers. Finally, the course will consider the types of research being done which inform teacher education curriculum, policy, and perception.

Rationale for introduction of this course

The place of work for teacher educators, schools of education and teacher education programs, have increasingly been scrutinized by policy-makers, legislators (Anders et al., 2000; Cochran-Smith & Zeichner, 2005; Zeichner, 2006), and increasingly, by the public. The scrutiny for teacher education programs has included aspects such as program quality, diversity, accountability, and teacher characteristics (Grisham, 2006). As reform efforts in education continue at a rapid rate teacher education programs must respond by reconciling a growing number of initiatives. Further, our classrooms are becoming increasingly culturally and linguistically diverse. On preparing student teacher for diverse classrooms, Darling-Hammond (2006) reminds us, “Schools of education must design programs that help prospective teachers to understand deeply a wide array of things about learning, social and cultural contexts” (p. 302). Given the rapid shifts in internal and external factors of schooling, such as educational reforms, shifting communication patterns, and globalizing societies, we must consider: What must teacher education programs do to prepare student teachers to learn and to know to become effective teachers in contemporary classrooms?

This course will be guided by central questions, which will help us explore current issues in teacher education: What is the purpose of teacher education? How does teacher education make a difference? How are teacher educators responding to the needs of 21st century classrooms?

This course will be of interest to a wide-range of students pursuing graduate studies, particularly those with interests in teaching teachers and/or framing their thesis work within teacher education research. It will be available as an elective offering across graduate studies.

Educational Goals

Students will be introduced to a broad survey of scholarship in the field of teacher education and will investigate their own experiences with teacher education, as learners and educators. Educational goals for the course are as follows:

• Students will be able to demonstrate firm understanding of theories presented in class
• Students will be able to evaluate theories and critique research within the field of study
• Students will be able to demonstrate an ability to identify, evaluate and interrogate key questions surrounding teacher education, including:
  o What is the purpose of teacher education?
  o What should teachers know?
  o Where should teacher be taught?
  o Who teaches? Who teaches teachers?
Course Outline

Course Number: EDUC 740-5
Course Title: Issues in Pre-Service Teacher Education
Instructor(s): Pooja Dharamshi

Calendar Description:
Several local and international issues related to teacher education are examined, including longstanding criticisms and more recent concerns. Specific topics will be explored beginning with a brief history of teacher education and its “place” in the university, better understanding varying models for teacher education programs, exploring teacher education as a site for social justice and democracy, and looking at the work of teacher educators, those who teach teachers. Finally, the course will consider the types of research being done which inform teacher education curriculum, policy, and perception.

Course Details
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  - What is the purpose of teacher education?
  - What should teachers know?
  - Where should teachers be taught?
  - Who teaches? Who teaches teachers?

Grading:
- Reflection Paper- 25%
- Presentation- 25%
- Essay- 40%
- Participation-10%

Grading Notes:
There will be no final examination in this course.

Required Texts:
Students are not required to purchase any texts for this course. All assigned readings, videos, and other resources will be available online or through the SFU library.

Recommended Texts:
To: Dr. Wade Parkhouse, Dean of Graduate Studies /Chair of SGSC  
From: Dr. Dongya Yang, Associate Dean /Chair, Faculty of Environment Graduate Studies Committee  
cc: Dr. Leah Bendell, SFU Chair of the SFU-BCIT MSc in Ecological Restoration  
Date: April 20, 2017  
Re: New Courses for the SFU-BCIT MSc in Ecological Restoration

The Faculty of Environment Graduate Studies Committee has approved the request from the SFU-BCIT MSc in Ecological Restoration to create three new courses: ECO 600, ECO 630, and ECO 640, and to revise the calendar entry for the program. I am submitting the forms and supporting documents for approval from SGSC. The package includes:

1. Memo from Dr. Leah Bendell, SFU Chair of the SFU-BCIT MSc program  
2. ECO 600 (0) Ecological Restoration I, New Course Form  
3. ECO 630 (3) Applied Research Project I, New Course Form and the course outline  
4. ECO 640 (3) Applied Research Project II, New Course Form and the course outline  
5. Revised calendar entry for the program

Should you have any questions, please feel free to contact me directly.

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

ATTENTION: Dongya Yang, Associate Dean FEnv, Chair FENV CC
FROM: Leah Bendell, Program Chair, MSc. Ecological
Restoration. FEnv
RE: New course request (ECO 630 and ECO 640) and proposed changes to the MSc in Ecological Restoration calendar entry

DATE: April 17th 2017
PAGES: 1/11

We are asking FEnv CC to consider:

1) approval of the courses, ECO 630, ECO 640 and ECO 690-
2) changes to the calendar entry as detailed in the attached FROM and TO documents.

1) A key feature of the joint BCIT-SFU MSc program in Ecological Restoration are the capstone Applied Projects I and II which students complete through the combined courses ECOR 9300 and ECOR 9400. Currently, these two courses are only listed and offered through BCIT. An important part of the joint program is the 50% (minimum 18 credits) residency requirement which must be met by students at both institutions. To facilitate the student in meeting these requirements, we propose listing the Applied Projects I and II as SFU and BCIT courses. This would allow the student to apply credits obtained through their capstone projects to meet their residency requirements, either at SFU or BCIT. The student can enroll in the two capstone courses either at BCIT or SFU but not both. ECO 690 is a new non-credit course that allows students to remain enrolled in the program during the summer semesters.

2) The existing calendar entry is currently incorrect and out of date. Proposed changes (FROM to TO) are attached.
# New Graduate Course Proposal

**Course Subject (e.g. PSYC)** ECO

**Number (e.g. 8101)** 630

**Units (e.g. 4.13)**

---

**Course title (max 100 characters including spaces and punctuation)**

**Applied Research Project I**

---

**Short title (for enrollment/transcript - max 30 characters)**

**Applied Research Project I**

---

**Course description for SFU Calendar**

In ECO 630 (Applied Research Project I) students select a specific site and develop a professional relationship with their chosen client. Students will conduct reconnaissance surveys of their target ecosystem and appropriate reference ecosystems to identify the primary issues and stressors associated with their target ecosystem. They will then develop a proposal detailing the general approach to developing a restoration plan, all the while interacting with their client to ensure the approach and deliverables meet the client’s needs. If students are enrolled in ECOR 6300 at BCIT they cannot enroll in this course for further credit.

---

**Rationale for introduction of this course**

Equivalent course in this program exists at BCIT. Creating an equivalent course at SFU would allow students to register at the same institution as their project supervisor.

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**Term of initial offering**

Spring 2018

---

**Course delivery (e.g. 3 hrs/week for 13 weeks)**

n/a

---

**Estimated enrollment/offering**

15

---

**Equivalent courses** (These are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.)

ECO 611, ECO 621

---

**Prerequisite and/or Corequisite**

ECO 611, ECO 621

---

**Educational Goals (optional)**

---

**Criminal record check required?**

- Yes

---

**Additional course fees?**

- Yes

---

**Campus where course will be taught**

- Burnaby
- Surrey
- Vancouver
- Great Northern Way
- Off campus

---

**Course Components**

- Lecture
- Seminar
- Lab
- Research
- Practicum
- Online

---

**Grading Basis**

- Letter grades
- Satisfactory or Unsatisfactory
- In Progress/Complete

---

**Required course?**

- Yes

---

**Total repeats allowed?**

[ ]

---

**Capstone course?**

- Yes

---

**Required course?**

- Yes

---

**Final exam required?**

- Yes

---

**Repeat within a term?**

- Yes

---

**Combined with an undergrad course?**

- Yes

---

* Course descriptions should be brief and should never begin with phrases such as “This course will...” or “The purpose of this course is...” If the grading basis is satisfactory/unsatisfactory include this in the description.

** If a course is only available to students in a particular program, that should be stated in the prerequisite.

*** If yes, then add this requirement as a prerequisite.

**** This applies to a Special Topics or Directed Readings course.

---

*Page 1 of 2 Revised February 11, 2016*
RESOURCES

If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course

Leah Bendell

Additional faculty members, space, and/or specialized equipment required in order to offer this course

CONTACT PERSON

Department / School / Program
Ecological Restoration
Contact name
Leah Bendell
Contact email
bendell@sfu.ca

DEPARTMENTAL APPROVAL

REMINDER: New courses must be identified on a cover memo and confirmed as approved when submitted to FGSC/SGSC. Remember to also include the course outline.

Non-departmentalized faculties need not sign

Department Graduate Program Committee
Signature

Department Chair
Signature
Date 2017/05/17

LIBRARY REVIEW

Library review done? ☑ YES

Course form, outline, and reading list must be sent by FGSC to lib/courseassessment@sfu.ca for a review of library resources.

OVERLAP CHECK

Overlap check done? ☑ YES

The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content.

FACULTY APPROVAL

This approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds and any other necessary resources.

Faculty Graduate Studies Committee (FGSC)
Dongya Yang
Signature
Date April 20, 2017

SENATE GRADUATE STUDIES COMMITTEE APPROVAL

 Senate Graduate Studies Committee (SGSC)
 Jeff Duclos
 Signature
 Date 15 June 2017

ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: 
Course Attribute Value: 
Instruction Mode: 
Attendance Type: 

If different from regular units:
Academic Progress Units: 
Financial Aid Progress Units: 

Page 2 of 2 Revised February 11, 2016
ECO 630
Applied Research Project I (3)
Course Outline

General:

In ECO 630 (Applied Research Project I) students develop research collaborations in the applied science of ecological restoration with either an academic, private or industrial partner. In collaboration with the research partner, the student will develop an applied research project that will address a specific ecosystem restoration objective of the partner. Students will conduct reconnaissance surveys of their research site to identify the primary issues and stressors associated with their site. They will then develop a proposal which provides their scientific approach to addressing the restoration needs of their site. The proposal will include a background and rationale, proposed methods and expected outcomes and can follow the general guidelines of a NSERC discovery grant proposal. In ECO 640 (Applied Research Project II (3)), the students will implement their proposed research project developed in ECO 630.

Prerequisites:

Enrollment in the SFU/BCIT joint program in Ecological Restoration. ECO 630 is a prerequisite for ECO 640 Applied Research Project II (3).

If students are enrolled in ECOR 9300 at BCIT they cannot enroll in this course for further credit.

Course Objectives:

The purpose of the Applied Research Project courses ECO 630 and ECO 640 is to allow students to pursue a research project relevant to ecological restoration. Specific objectives include:

1. To conceptualize and formulate a research question/hypothesis
2. Develop a research plan to address the proposed research question/hypothesis
3. Implement the research plan which includes data collection and analyses
4. Provide a final project report which provides the research findings and conclusions.
5. To be able to orally defend research outcomes.

In ECO 630 (Applied Research Project I), the student identifies their research client and in collaboration with their client develops a proposal detailing the general approach to developing an applied research question of relevance to their client. ECO 640 (Applied Research Project II), implements the applied research project.
Learning Outcomes:

Students will improve their abilities in specific skills such as pre- and post-restoration monitoring, interacting with and communicating complex approaches to clients and project partners, proposal writing, and designing restoration plans, decision analysis, statistics, risk assessment, conflict resolution, strategic planning, and others.

Course Grading:

1. Progress reports 45%
2. Project proposal 30%
3. Presentation 25%

Textbook: none required

Recommended Reading: Project/student dependent

Registrar Notes:

SFU’s Academic Integrity web site http://students.sfu.ca/academicintegrity.html is filled with information on what is meant by academic dishonesty, where you can find resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the University. http://www.sfu.ca/policies/gazette/student/s10-01.html

ACADEMIC INTEGRITY: YOUR WORK, YOUR SUCCESS
### New Graduate Course Proposal

#### Course Subject (eg. PSY) **ECO**  
Number (eg. 810|640) **640**  
Units (eg. 4|3) **3**

#### Course title (max 100 characters including spaces and punctuation)  
**Applied Research Project II**

#### Short title (for enrollment/transcript - max 30 characters)  
**Applied Research Project II**

#### Course description for SFU Calendar  
ECO 640 is a continuation of ECO 630 (Applied Research Project I). Students will develop their proposal from ECO 630 into a detailed restoration plan (or similar deliverable) specific to the client's needs. Students will design a restoration plan that is scientifically defensible by drawing on the best current knowledge available to alleviate the stresses and restore the degraded ecosystem. They will identify the uncertainties present with the specific site, and include an approach to minimize the risk associated with these uncertainties. When possible, students will detail a research design that will reduce these uncertainties, should the restoration plan be implemented. Students will orally defend their restoration plan.

If students are enrolled in ECOH 9400 at BCIT they cannot enroll in this course for further credit.

#### Rationale for introduction of this course  
Creating an equivalent course at SFU would allow students to register at the same institution as their project supervisor.

#### Term of initial offering  
**Spring 2018**

#### Frequency of offerings/year  
**Every spring**

#### Course delivery [eg 3 hrs/week for 13 weeks]  
n/a

#### Estimated enrollment/offering  
15

#### Equivalent courses (these are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.)

- **ECO 611, ECO 621**

#### Prerequisite and/or Corequisite  
- **ECO 611, ECO 621**

#### Educational Goals (optional)

#### Criminal record check required?  
- Yes  
- No

#### Additional course fees?  
- Yes  
- No

#### Campus where course will be taught  
- Burnaby  
- Surrey  
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#### Course Components  
- Lecture  
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#### Grading Basis  
- Letter grades  
- Satisfactory or Unsatisfactory  
- In Progress/Complete

#### Repeat for credit?  
- Yes  
- No

#### Total repeats allowed?  
- Capstone course?  
- Yes  
- No

#### Required course?  
- Yes  
- No

#### Final exam required?  
- Yes  
- No

#### Repeat within a term?  
- Yes  
- No

#### Required course?  
- Yes  
- No

#### Combined with an undergrad course?  
- Yes  
- No

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**OVERLAP CHECK**

Overlap check done? Yes

The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content.

**FACULTY APPROVAL**

This approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds and any other necessary resources.

<table>
<thead>
<tr>
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**SENATE GRADUATE STUDIES COMMITTEE APPROVAL**

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</tbody>
</table>

**ADMINISTRATIVE SECTION (for DGS office only)**

If different from regular units:

- Academic Progress Units: 
- Financial Aid Progress Units: 

Page 2 of 2 Revised February 11, 2016
ECO 640
Applied Research Project II (3)
Course Outline

General:

ECO 640 is the continuation of ECO 630. In ECO 630 (Applied Research Project I) students developed research collaborations in the applied science of ecological restoration with either an academic, private or industrial partner. In collaboration with the research partner, the student developed an applied research proposal that addressed a specific ecosystem restoration objective of the partner. ECO 640 is the implementation of their research project developed in ECO 630.

Prerequisites:

Enrollment in the SFU/BCIT joint program in Ecological Restoration. ECO 630 is a prerequisite for ECO 640 Applied Research Project II (3).

If students are enrolled in ECOR 9300 at BCIT they cannot enroll in this course for further credit.

Course Objectives:

The purpose of the Applied Research Project courses ECO 630 and ECO 640 is to allow students to pursue a research project relevant to ecological restoration. Specific objectives include:

1. To conceptualize and formulate a research question/hypothesis
2. Develop a research plan to address the proposed research question/hypothesis
3. Implement the research plan which includes data collection and analyses
4. Provide a final project report which provides the research findings and conclusions.
5. To be able to orally defend research outcomes.

In ECO 630 (Applied Research Project I), the student identifies their research client and in collaboration with their client develops a proposal detailing the general approach to developing an applied research question of relevance to their client. ECO 640 (Applied Research Project II), implements the applied research project. Course deliverables include a final written report and an oral defence.
Learning Outcomes:

1. Development of critical thinking skills through the application of the students research proposal developed in ECO 630
2. Research design and application
3. Data analysis and interpretation
4. Development of software skills (e.g., statistical software packages) through data analysis and interpretation
5. Report writing skills
6. Oral presentation skills
7. Networking and mediating skills developed through establishing collaborative restoration projects with academic, private or industrial partners.

Course Grading:

1. Progress reports 45%
2. Project proposal 30%
3. Presentation 25%

Textbook: none required

Recommended Reading: Project/student dependent

Registrar Notes:

SFU’s Academic Integrity web site http://students.sfu.ca/academicintegrity.html is filled with information on what is meant by academic dishonesty, where you can find resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the University. http://www.sfu.ca/policies/gazette/student/s10-01.html

ACADEMIC INTEGRITY: YOUR WORK, YOUR SUCCESS
New Graduate Course Proposal

Attach a separate document if more space is required.

<table>
<thead>
<tr>
<th>Course Subject (eg. PSYC)</th>
<th>Number (eg. 810)</th>
<th>Units (eg. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPK</td>
<td>895</td>
<td>0</td>
</tr>
</tbody>
</table>

Course title (max 100 characters including spaces and punctuation)
**MSc Proposal**

Short title (for enrollment/transcript - max 30 characters)
**MSc Proposal**

Course description for SFU Calendar *
A formal Thesis Proposal is written and defended to the supervisory committee. The Proposal is circulated to faculty and resident graduate students, and presented for an open forum discussion. The Graduate Program Committee Chair or designate will chair the presentation of the proposal. The Thesis Proposal is intended to establish the objectives, methodology and scope of the thesis project at an early stage of the degree and provides an opportunity for the Supervisory Committee to influence the direction of the research at an early stage and to offer feedback to aid the growth and development of the research trainee. The Supervisory Committee will also explore the student's knowledge in any area that is relevant to the proposed research.

Rationale for introduction of this course
As part of Degree Audit Project The MSc Proposal is currently a degree requirement. Offering this requirement as a course allows efficient tracking via the APR and for the degree requirement to appear on the student's transcript.

Term of initial offering **2018 Spring**
Frequency of offerings/year **3 per year**
Course delivery [a 3 hrs/week for 13 weeks]
Estimated enrollment/offering **3**

Equivalent courses (These are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.) None.

Prerequisite and/or Corequisite **
None.

Educational Goals (optional)

Criminal record check required? □ Yes [[**3**] Additional course fees? □ Yes □ No

Campus where course will be taught □ Burnaby □ Surrey □ Vancouver □ Great Northern Way □ Off campus

Course Components □ Lecture □ Seminar □ Lab □ Research □ Practicum □ Online

Grading Basis □ Letter grades □ Satisfactory or Unsatisfactory □ In Progress/Complete

Repeat for credit? **** □ Yes □ No Total repeats allowed? 1

Required course? □ Yes □ No Final exam required? □ Yes □ No Repeat within a term? □ Yes □ No

Capstone course? □ Yes □ No

Combined with an undergrad course? □ Yes □ No If yes, identify which undergraduate course and what the additional course requirements are for graduate students.

---

* Course descriptions should be brief and should never begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description.
** If a course is only available to students in a particular program, that should be stated in the prerequisite.
*** If yes, then add this requirement as a prerequisite.
**** This applies to a Special Topics or Directed Readings course.
RESOURCES
If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source[s] of those additional resources.

Faculty members who will normally teach this course
Senior supervisor and supervisory committee of the individual student
Additional faculty members, space, and/or specialized equipment required in order to offer this course
Not applicable

CONTACT PERSON
Department / School / Program
BPK
Contact name
Tom Claydon
Contact email
twc5@sfu.ca

DEPARTMENTAL APPROVAL
REMINDER: New courses must be identified on a cover memo and confirmed as approved when submitted to FGSC/SGSC. Remember to also include the course outline.

Non-departmentalized faculties need not sign

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<td>Department Graduate Program Committee</td>
<td>[signature]</td>
<td>2017.02.28 15:51:15 -08'00'</td>
</tr>
<tr>
<td>Department Chair</td>
<td>[signature]</td>
<td>Feb. 28, 2017</td>
</tr>
<tr>
<td>Angela Brooks-Wilson</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LIBRARY REVIEW
Library review done? □ Yes
Course form, outline, and reading list must be sent by FGSC to lib-courseassessment@sfu.ca for a review of library resources.

OVERLAP CHECK
Overlap check done? □ Yes
The course form and outline must be sent by FGSC to the chairs of each FGSC [fgsc-list@sfu.ca] to check for an overlap in content.

FACULTY APPROVAL
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

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<tbody>
<tr>
<td>Jeff [signature]</td>
<td></td>
<td>15 June 2017</td>
</tr>
</tbody>
</table>

ADMINISTRATIVE SECTION (for DGS office only)
Course Attribute:
Course Attribute Value:
Instruction Mode:
Attendance Type:

If different from regular units:
Academic Progress Units:
Financial Aid Progress Units:
# New Graduate Course Proposal

Attach a separate document if more space is required.

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<th>896</th>
<th>Units (eg. 4)</th>
<th>0</th>
</tr>
</thead>
</table>

**Course title (max 100 characters including spaces and punctuation)**

PhD Comprehensive Examination

**Short title (for enrollment/transcript - max 30 characters)**

PhD Comprehensive Examination

**Course description for SFU Calendar**

The PhD comprehensive exam consists of a written research proposal, and a related oral exam conducted by the Supervisory Committee and one additional member external to the committee. The written research proposal will be written in the format of an Operating Grant application, with an eleven page limit exclusive of references, appendices, figures and tables. The proposal is to be written independently by the candidate, and should be written in enough detail to determine that the research is feasible and sufficient for PhD level work. The oral examination is designed to assess the candidate’s ability to understand the underlying science and their ability to undertake the proposed research. The examining committee will explore the student’s knowledge in any area that is relevant to the proposed research. The Graduate Program Committee Chair or designate will chair the examination.

**Rationale for introduction of this course**

As part of Degree Audit Project, the PhD Comprehensive Examination is currently a degree requirement. Offering this requirement as a course allows efficient tracking via the APR and for the degree requirement to appear on the student’s transcript.

**Term of initial offering**

2018 - Spring

**Course delivery**

13 weeks

**Frequency of offerings/year**

3 per year

**Estimated enrollment/offering**

2

**Equivalent courses**

These are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.

None.

**Prerequisite and/or Corequisite**

None.

**Educational Goals (optional)**

Criminal record check required? **Yes**

Additional course fees? **Yes**

Campus where course will be taught

- Burnaby
- Surrey
- Vancouver
- Great Northern Way
- Off campus

Course Components

- Lecture
- Seminar
- Lab
- Research
- Practicum
- Online

Grading Basis

- Letter grades
- Satisfactory or Unsatisfactory
- In Progress/Complete

Repeat for credit? **Yes**

Total repeats allowed? **1**

Required course? **Yes**

Final exam required? **Yes**

Repeat within a term? **Yes**

Combined with an undergrad course? **Yes**

If yes, identify which undergraduate course and what the additional course requirements are for graduate students:

*Course descriptions should be brief and should never begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description.

**If a course is only available to students in a particular program, that should be stated in the prerequisite.

***If yes, then add this requirement as a prerequisite.

****This applies to a Special Topics or Directed Readings course.*
If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty members who will normally teach this course

Senior supervisor and supervisory committee of the individual student

Additional faculty members, space, and/or specialized equipment required in order to offer this course

An examiner who is external to the Supervisory committee will be required. This examiner may be an SFU Faculty member, or a Faculty member of another institution.

CONTACT PERSON

<table>
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<tr>
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DEPARTMENTAL APPROVAL

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Non-departmentalized faculties need not sign

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LIBRARY REVIEW

Library review done? □ YES

Course form, outline, and reading list must be sent by FGSC to lib-courseassessment@sfu.ca for a review of library resources.

OVERLAP CHECK

Overlap check done? □ YES

The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content.

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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: __________________________
Course Attribute Value: ____________________
Instruction Mode: _________________________
Attendance Type: _________________________

If different from regular units:
Academic Progress Units: __________________
Financial Aid Progress Units: _____________

Page 2 of 2 Revised February 11, 2016
# New Graduate Course Proposal

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<td>PhD Seminar</td>
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<tbody>
<tr>
<td>PhD Seminar</td>
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<table>
<thead>
<tr>
<th>Course description for SFU Calendar *</th>
</tr>
</thead>
<tbody>
<tr>
<td>The student will present two seminars on topics approved by the student’s senior supervisor. One of the seminars will be presented as a Departmental seminar in the student’s last term, and will summarize, integrate, and synthesize the thesis work for the whole department. The second seminar should be at a national or international conference, or an oral presentation at BPK Research Day, and must be approved by the Graduate Program Committee Chair. BPK 897 can be repeated once.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rationale for introduction of this course</th>
</tr>
</thead>
<tbody>
<tr>
<td>As part of Degree Audit Project. It is currently a degree requirement that PhD students give two seminars during their degree. Offering the requirement to give a seminar as a course (that can be repeated once) allows efficient tracking via the APR and for the degree requirement to appear on the student’s transcript.</td>
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<table>
<thead>
<tr>
<th>Term of initial offering</th>
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<tbody>
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<td>Frequency of offerings/year</td>
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<td>Estimated enrollment/offering</td>
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<th>Prerequisite and/or Corequisite **</th>
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<tbody>
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<tr>
<th>Educational Goals (optional)</th>
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<table>
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<tr>
<th>Criminal record check required?</th>
<th>Yes ***</th>
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<tbody>
<tr>
<td>Additional course fees?</td>
<td>Yes</td>
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<tr>
<th>Campus where course will be taught</th>
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<tbody>
<tr>
<td>Burnaby</td>
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<td>Surrey</td>
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<tr>
<td>Vancouver</td>
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<td>GNPW</td>
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<td>Off campus</td>
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<th>Course Components</th>
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<tbody>
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<td>Lecture</td>
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<tr>
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<th>No</th>
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<tbody>
<tr>
<td>Total repeats allowed?</td>
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<tr>
<td>Capstone course?</td>
<td>✔ Yes</td>
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<tr>
<th>Required course?</th>
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<th>No</th>
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Faculty member(s) who will normally teach this course

Senior supervisor and supervisory committee of the individual student

Additional faculty members, space, and/or specialized equipment required in order to offer this course

Not applicable

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ADMINISTRATIVE SECTION (for DGS office only)

If different from regular units:

- Academic Progress Units: 6
- Financial Aid Progress Units: 6

Page 2 of 2 Revised February 11, 2016
MEMORANDUM

ATTENTION: Senate

FROM: Jeff Derksen,
Acting Chair of Senate Graduate Studies Committee (SGSC)

RE: Program Changes

DATE: June 22, 2017

For information:
Acting under delegated authority and at its meeting of June 5, 2017 SGSC approved the following program changes effective Spring 2018:

Faculty of Applied Science
1) Engineering Science MEng

Faculty of Arts and Social Sciences
2) History MA
3) History PhD
4) International Studies MA

Beedie School of Business
5) Master of Business Administration

Faculty of Education
6) Advanced Professional Studies in Education Graduate Diploma
7) Arts Education MA
8) Arts Education MEd
9) Arts Education PhD
10) Counselling Psychology MA
11) Counselling Psychology MEd
12) Curriculum and Instruction Graduate Certificate
13) Curriculum and Instruction MA
14) Curriculum and Instruction MEd
15) EdD Doctor of Education
16) Education Individual Program MA
17) Education Individual Program MEd
18) Educational Leadership Graduate Certificate
19) Educational Leadership MA
20) Educational Leadership MEd
21) Educational Practice MEd
22) Educational Psychology MA
23) Educational Psychology MEd
24) Educational Psychology PhD
25) Educational Technology and Learning Design MA
26) Educational Technology and Learning Design PhD
27) Educational Theory and Practice PhD
28) Imaginative Education Graduate Certificate
29) Languages, Culture and Literacies PhD
30) Mathematics Education PhD
31) Secondary Mathematics Education MEd
32) Secondary Mathematics Education MSc
33) TEAL – Teaching English as an Additional Language (TESL/TEFL) MA
34) TEAL – Teaching English as an Additional Language (TESL/TEFL) Med

Faculty of Environment
35) Ecological Restoration MSc

Faculty of Science
36) Biomedical Physiology and Kinesiology MSc (Thesis Option)
37) Biomedical Physiology and Kinesiology PhD
38) New calendar description for Interdisciplinary Oncology Graduate Specialization
MEMORANDUM

Attention  Dr. Wade Parkhouse    Date      May 18, 2017
From       Dr. Mirza Faisal Beg  mfbeg@sfu.ca

Faculty of Applied Science, Graduate Studies Committee

Re:
Remove ENSC 870 and corresponding calendar changes for the MEng program

The faculty of Applied Sciences Graduate Studies Committee has unanimously approved by electronic vote the following submission for SGSC June 2017 meeting:

■ The School of Engineering Science wants to remove ENSC 870 from their M.Eng program and revise the calendar description of the M.Eng. program. As per GGR 1.7.2-d, a Masters program can now consist of 30 units of coursework only, without a capstone. Hence, we are removing ENSC 870-0 (MEng Course Option Portfolio), which was the capstone for the MEng program in the School of Engineering Science.

Cc:  Dr. Greg Mori, Director, School of Computing Science
     Dr. Glenn Chapman, Director, School of Engineering Science
     Dr. Farid Golnaraghi, Director, School of Mechatronic Systems Engineering
## Calendar Entry Change for Master of Engineering in the School of Engineering Science

<table>
<thead>
<tr>
<th>Summary of change:</th>
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<tr>
<td>Removal of ENSC 870-0 as a program requirement and change to new calendar format.</td>
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<table>
<thead>
<tr>
<th>Rationale for change:</th>
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<tr>
<td>As per GGR 1.7.2-d, a Masters program can now consist of 30 units of coursework only, without a capstone. Hence, we are removing ENSC 870-0 (MEng Course Option Portfolio), which was the capstone for the MEng program in the School of Engineering Science.</td>
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<th>Effective term and year:</th>
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<td>Spring 2018</td>
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<tr>
<th>Will this change impact current students? If yes, what is the plan for current students?</th>
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<tbody>
<tr>
<td>The change will impact current students. They will be allowed to complete ENSC 870 if they wish, but will not be required to do so starting Spring 2018.</td>
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</table>
Engineering Science

MASTER OF ENGINEERING

The school offers a Master of Engineering (MEng) program. Students in the MEng program are ineligible for university financial support except for the TA. MEng students have lower TA priority than PhD and MASc students from the School of Engineering Science.

Admission Requirements

The admission requirement is a bachelor’s degree in electrical engineering, computer engineering, biomedical engineering, engineering science or a related area, with a 3.0 cumulative grade point average (CGPA) (B grade) from a recognized university, or equivalent. International applicants must meet the university’s requirement on English proficiency.

Program Requirements

Students complete a minimum of 30 units of coursework. The courses must include:

ENSC 820 - Engineering Management for Development Projects (3)
ENSC 870 - MEng Course Option Portfolio (0) *

Four ENSC graduate courses (not directed studies)

Elective Course Options

Beyond the core requirements for regular ENSC graduate courses listed above, the following courses can be used towards the remaining requirements:

ENSC 701 - Graduate Co-op Practicum I (3)
ENSC 702 - Graduate Co-op Practicum II (3)
ENSC 891 - Directed Studies I (3)
ENSC 892 - Directed Studies II (3)
ENSC 897 - MEng Project (6) *

Any ENSC graduate course
Any regular graduate course from other departments in the Faculty of Applied Sciences or the Faculty of Science - up to three such courses may be taken towards MEng requirements.

International MEng students with a Study Permit should register for at least six units each term to maintain full-time status.

Project

*ENSC 897 is an elective course that can be completed instead of ENSC 870, in which case it replaces ENSC 870 as part of the program requirements. Students interested in doing a project should approach ENSC faculty members with matching interests. Availability of projects may depend on faculty member's interests and schedule, as well as student's prior academic performance. Students who find a faculty member willing to be their MEng project supervisor should register for the course ENSC 897-6 MEng Project. At the completion of the course, the student should submit a MEng project report and give an oral presentation to the supervisory committee. Students who do not complete ENSC 897-6 in one term must enroll in ENSC 896-6 (MEng Project Completion) in all subsequent terms until the project is complete, but only need to pay 50% of the tuition for the ENSC 896 credits.

Supervisory Committee

The Chair of the Graduate Program Committee is the default senior supervisor of all MEng students. When a faculty member agrees to supervise a MEng student for the student's ENSC 897-6 MEng Project course, the faculty member becomes the senior supervisor of the MEng student.

Transfer from MEng to MASc Program

Transfer from the MEng to the Master of Applied Science (MASc) program will be considered if the student meets all the admission requirements of the MASc program, and if the proposed senior supervisor can provide financial support that meets the School's minimum requirement for MASc students.

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.
Description of Program
The school offers a course-intensive Master of Engineering (MEng) program. Students in the MEng program are ineligible for university financial support except for a teaching assistantship (TA). MEng students have lower TA priority than PhD and MASc students from the School of Engineering Science.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar and have a bachelor's degree in electrical engineering, computer engineering, biomedical engineering, engineering science, or a related area, with a 3.0 cumulative grade point average (B average) from a recognized university, or equivalent. International applicants must also meet the university's requirement on English proficiency.

Program Requirements
This program consists of required courses and elective courses for a minimum of 30 units.

Students complete the following

ENSC 820 - Engineering Management for Development Projects (3)

and 12 units of ENSC graduate courses (excluding ENSC 701, ENSC 702, ENSC 703, ENSC 803, ENSC 820, ENSC 891, ENSC 892, ENSC 896, ENSC 897, ENSC 898, ENSC 899)

and 15 units of additional graduate courses (any graduate courses from ENSC or up to 9 units from other departments in the Faculty of Applied Sciences or the Faculty of Science; ENSC 703 cannot be used towards this requirement)

The following courses can be used towards the 15 units of graduate courses:
ENSC 701 - Graduate Co-op Practicum I (3)
ENSC 702 - Graduate Co-op Practicum II (3)
ENSC 891 - Directed Studies I (3)
ENSC 892 - Directed Studies II (3)
ENSC 897 - MEng Project (6)*

*Project
ENSC 897 is an elective course. Students interested in doing a project should approach ENSC faculty members with matching interests. Availability of projects may depend on faculty member's interests and schedule, as well as student's prior academic performance. Students who find a faculty member willing to be their MEng project supervisor should register for the course ENSC 897-6 MEng Project. At the completion of the course, the student should submit a MEng project report and give an oral presentation to the supervisory committee that includes at least two faculty members. Students who do not complete ENSC 897-6 in one term must enroll in ENSC 896-6 (MEng Project Completion) in all subsequent terms until the project is complete, but only need to pay 50% of the tuition for the ENSC 896 credits.
Program Length
Students are expected to complete the program requirements in six terms.

Other Information

International Students
International MEng students with a study permit should register in at least two courses each term with a total of six or more units to maintain full-time status.

Supervisory Committee
The Chair of the Graduate Program Committee is the default Senior Supervisor of all MEng students. When a faculty member agrees to supervise a MEng student for the student’s ENSC 897-6 MEng Project course, the faculty member becomes the Senior Supervisor of the MEng student.

Transfer from MEng to MASc program
A transfer from the MEng to the Master of Applied Science (MASc) program will be considered if the student meets all the admission requirements of the MASc program, and if the proposed Senior Supervisor can provide financial support that meets the school’s minimum requirement for MASc students.

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: Wade Parkhouse, Dean
Graduate Studies

FROM: Lisa Shapiro, Chair
Faculty of Arts and Social Sciences Graduate Studies Committee

RE: FASSGSC Proposals

DATE: May 8, 2017

The Faculty of Arts and Social Sciences Graduate Committee met on May 4, 2017 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 Spring 2018.
3. Department of History  
   a) FASSGSC approve the course changes to HIST899 (units).  
   b) FASSGSC approve the course changes to HIST899 (units).  
   c) FASSGSC approve the Program changes to the Department of History MA program and associated calendar language {degree requirements, program units, MA Thesis units}.  
   d) FASSGSC approve the Program changes to the Department of History PhD program and associated calendar language {degree requirements, program units, PhD Thesis units}.  

4. School for International Studies  
   a) FASSGSC approve the Program changes to the School for International Studies MA program and associated calendar language {degree requirements, program units, Concentrations, MA Thesis units}.  

April 17, 2017

Memo to: Dr. Lisa Shapiro, PhD, Associate Dean, Graduate Programs and Research, Faculty of Arts and Social Sciences

From: Jeremy Brown, Graduate Program Chair, History Department

At its meeting on March 16, 2017, the Department of History approved the following curricular program changes:

1. Increasing the number of units for MA and PhD theses from 6 to 10 (course changes to HIST 898 and HIST 899). Rationale: The number of units awarded for a thesis should be commensurate with the greater effort required to complete a thesis.

2. Calendar revisions to the MA and PhD programs clarifying our program requirements to fit with DGS’s degree audit project. Rationale: Following direction from DGS to simplify and streamline calendar entries to fit degree audit project and to put additional program information on the department website instead of in the calendar entry.

Because these revisions arose from the degree audit project, DGS has instructed me to not use the regular template for program changes. At the direction of DGS, I instead attach copies of the old calendar entries, followed by copies of the finalized revised calendar entries (no markups), plus course change forms for HIST 898 and HIST 899.

Please put this proposal on the agenda of the next FASSGSCC meeting.

In service,

Jeremy Brown

[Signature]
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Department of History
Simon Fraser University Calendar | Summer 2017

History

MASTER OF ARTS

The Department of History offers graduate research leading to a master of arts (MA) degree.

The major study areas are Africa, the Americas, Asia, Canada, Europe, and the Middle East.

Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Normally, an undergraduate 3.33 cumulative grade point average (CGPA) is required in History or its equivalent in History over the last two years of the undergraduate program. A degree in a discipline related to History may be accepted in exceptional cases.

The Department reserves the right to accept qualified candidates only when an appropriate supervisor is available and the University resources (including library facilities) are deemed adequate for the student’s stated research interest.

Demonstrated ability in a language or languages other than English may be a requirement for admission to the program, at the discretion of the nominal supervisor.

Program of Study

Upon graduate program admission, students are assigned a provisional supervisor. See 1.6.4 Supervisory Committee in the graduate general regulations. Students and supervisors should consult with each other in the first term about the composition of the supervisory committee, which consists of the supervisor and usually one other member of the history department.

The supervisory committee should be formalized as soon as possible after the student’s entry into the program. Students should consult with their supervisors regarding course selection.

In most circumstances, students will complete course work in 12 months. In the fall term, HIST 814 and one optional course is completed. In the spring term, students complete HIST 815 and two optional courses. Of the three optional courses, at least one must be from area two (regional courses) and one from area three (thematic/comparative courses), and students are expected to enrol in at least two seminars. For a list of courses in each area, visit http://www.sfu.ca/history/graduate.html.
The course HIST 815 helps students prepare to research and write their theses. Students receive a satisfactory or unsatisfactory grade for this course. At the conclusion of the workshop, students defend their prospectuses to their committees in a formal setting.

When students have completed the course work, they write their language exam, and research and write their theses. Language exams are expected to be written by the end of the third term. Students enrol in HIST 898 while researching and writing their theses. During these terms, students will be expected to participate in monthly candidate seminars where portions of their own work-in-progress is presented at least once per term.

Program Requirements

Students complete 25 units including HIST 814 Historical Methods (5) and HIST 815 Prospectus Workshop (5), defend their thesis prospectus, and write a thesis of between 15,000 and 21,000 words, including footnotes (excluding bibliography). Shorter or longer thesis may be submitted only with the graduate chair's prior approval. If a thesis will exceed the word limit, the graduate chair must give formal approval prior to scheduling the defence.

Students enrolled in HIST 898 MA Thesis (6) will participate in the monthly candidate seminars conducted by the graduate chair. Students are required to present portions of their own work at least once per term.

Language Requirements

Senior supervisors will determine with their students whether reading ability in a language or languages other than English are necessary for the completion of the MA. Senior supervisors will submit their recommendation in writing to the GPC for approval by the end of the first semester. Reading ability will be evaluated by a time-limited examination consisting of the translation of a passage in the particular language with the aid of a dictionary, or the successful completion of a language training course approved by the senior supervisor. A student who fails the time-limited examination may retake the test at the discretion of the senior supervisor. Senior supervisors will be responsible for determining whether the student has met the language requirements and for so informing the GPC.

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.
History

MASTER OF ARTS

Description of Program
The Department of History offers graduate research leading to a master of arts (MA) degree. The major study areas are the Americas, Asia, Canada, Europe, and the Middle East.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Normally, an undergraduate 3.33 cumulative grade point average (CGPA) is required in History or its equivalent over the last two years of the undergraduate program. A degree in a discipline related to History may be accepted in exceptional cases.

Demonstrated ability in a language or languages other than English may be a requirement for admission to the program, at the discretion of the nominal supervisor.

Program Requirements
This program consists of course work, a thesis prospectus, and a thesis for a minimum of 41 units.

Students must complete
HIST 814 – Historical Methods (5)
HIST 815 – Prospectus Workshop (5)

and three other graduate courses for a minimum of thirteen units*

and a thesis
HIST 898 – MA Thesis (18)

*Students may choose graduate courses in another Simon Fraser University department, or from another university that is part of the Western Dean’s Agreement. Supervisory committee and departmental graduate program committee approval is required.

Program Length
Students are expected to complete the program requirements in four to six terms. In most circumstances students will complete course work in two terms.

Other Information
The prospectus workshop, HIST 815, helps students prepare to research and write their theses. Students receive a satisfactory or unsatisfactory grade for this course. At the conclusion of the workshop, students defend their prospectuses to their committees in a formal setting.

When students have completed course work, they research and write their theses while enrolled in HIST 898.
The thesis should be between 15,000 and 21,000 words, including footnotes (excluding bibliography). A shorter or longer thesis may be submitted only with the graduate chair’s approval. If a thesis will exceed the word limit, the graduate chair must give formal approval prior to scheduling the defence.

Language Requirements
Senior supervisors will determine with their students whether reading ability in a language or languages other than English is necessary for the completion of the MA. Senior supervisors will submit their recommendation in writing to the GPC for approval by the end of the first semester. Reading ability will be evaluated by a time-limited examination consisting of the translation of a passage in the particular language with the aid of a dictionary, or the successful completion of a language training course approved by the senior supervisor. A student who fails the time-limited examination may retake the test at the discretion of the senior supervisor. Senior supervisors will be responsible for determining whether the student has met the language requirements and for so informing the GPC.

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 Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Department of History | Faculty of Arts and Social Sciences
Simon Fraser University Calendar | Summer 2017

History

DOCTOR OF PHILOSOPHY

The Department of History offers graduate research leading to a doctor of philosophy (PhD) degree.

The major study areas are the Americas, Asia, Canada, Europe and the Middle East.

The department reserves the right to accept candidates only when a qualified supervisor is available and the University resources (including library facilities) are deemed adequate for the stated research priority.

Prospective PhD candidates are advised that the degree is granted in recognition of the student's general grasp of the subject matter of a broad area of study; for the ability to think critically; and for the power to analyze and co-ordinate problems and data from allied fields of study.

Program of Study

Upon program admission, each student is assigned a faculty supervisor. See graduate general regulation 1.6 for information about supervisory committees. The supervisory committee and the student determine three fields of study, at least two of which must be in the Department of History. A third field may be outside the Department of History with permission of the Graduate Program Committee.

All doctoral students are expected to complete at least one seminar course for credit in their first year.

The student and each field supervisor will agree as soon as possible on a general readings list of approximately 45 books (or equivalent) in each field. Reading list copies must be submitted to the graduate program committee chair by the beginning of the second term. The graduate program committee approves these lists and places them in the student's files.

Students are expected to cover the material on these lists, preferably by means of a structured reading and writing program with their supervisors.

The comprehensive examinations are written in week five of the fourth term. Only under extraordinary circumstances are students permitted to complete their comprehensive exams at a date later than this. For details about the comprehensive exams, see the department's graduate program handbook. All written examinations must be passed before the oral comprehensive exam.

A student who fails one of the written examinations, and one only, will have one additional chance for re-examination before sitting the oral exam. A 'fail,' 'pass,' or 'pass with distinction' will be assigned by the examining committee after oral exam completion.
Students failing at this stage are not permitted to continue in the program.

All doctoral students are expected to complete at least one graduate seminar course for credit in their first year.

See the Department of History for a list of Potential PhD fields.

**Thesis**

Within one term of successful completion of comprehensive exams and formal candidacy admission, students submit a thesis prospectus on a topic selected from the specialization areas listed above. The same procedure is followed for MA candidates but the thesis committee may seek the participation of another who has particular expertise in the proposed thesis topic area. Through the thesis, the student must demonstrate an original contribution to knowledge.

When the thesis is complete and the student is ready to offer himself/herself for the degree, a thesis examining committee will be formed, composed of the departmental graduate program committee chair or designate; the student’s supervisory committee; a faculty member or a person otherwise suitably qualified who is not a supervisory committee member; and an external examiner who is not a University employee.

This committee examines the student on the thesis and in the student’s major field of study. See Graduate General Regulations for further information and regulations.

**Language Requirements**

Students must demonstrate a reading ability in one language other than English that is acceptable to the supervisory committee. Students proposing to study Canadian history must demonstrate a reading ability in French, determined by a time limited examination consisting of the translation of a history passage in the particular language. A dictionary will be permitted.

**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.
History
DOCTOR OF PHILOSOPHY

Description of Program
The Department of History offers graduate research leading to a doctor of philosophy (PhD) degree. The major study areas are the Americas, Asia, Canada, Europe and the Middle East.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar.

Program Requirements
This program consists of course work, comprehensive examinations, and a thesis.

Students must complete
HIST 860 - Comprehensive Field 1 (6)
HIST 861 - Comprehensive Field 2 (6)
HIST 862 - Comprehensive Field 3 (6)

and one graduate course in consultation with the senior supervisor and supervisory committee*

and a thesis
HIST 899 - PhD Thesis (12)

*Normally HIST 814 - Historical Methods (5), if a methodology course has not already been taken in a master’s program.

Language requirements
Students must demonstrate a reading ability in one language other than English that is acceptable to the supervisory committee. Students proposing to study Canadian history must demonstrate a reading ability in French, determined by a time limited examination consisting of the translation of a history passage in the particular language. A dictionary will be permitted.

Program Length
Students are expected to complete the program requirements in 10 to 15 terms.

Other Information
Comprehensive Examinations
The supervisory committee and the student determine three fields of study, at least two of which must be in the Department of History. A third field may be outside the Department of History with permission of the graduate program committee. Comprehensive examinations are normally written during the fourth term. All written examinations must be passed before the oral comprehensive exam. A student who fails one of the written examinations, and one only, will have one additional chance for re-examination before sitting the oral exam. A 'fail,' 'pass,' or 'pass with distinction' will be assigned by the examining committee after oral exam completion. Students failing at this stage are not permitted to continue in the program.
Thesis
Within one term of successful completion of comprehensive exams and formal candidacy admission, students submit a thesis prospectus.

When the thesis is complete, a thesis examining committee will be formed, composed of the departmental graduate program committee chair or designate; the student's supervisory committee; a faculty member or a person otherwise suitably qualified who is not a supervisory committee member; and an external examiner who is not a University employee.

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                Lisa Shapiro, Chair of FASSGSC
FROM        Gerardo Otero, Graduate Chair, School for International Studies
SUBJECT        Program Requirement Changes to MA in International Studies
DATE            April 18, 2017

At its meeting of November 14, 2016 the School for International Studies approved the following curricular program changes:

- Removal of Southeastern European Studies optional regional concentration
- Addition of language concerning length of program for Thesis Option

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

Gerardo Otero
Graduate Chair, School for International Studies
International Studies

MASTER OF ARTS

This full-time 12 month program, leading to a Master of Arts (MA) in International Studies, consists of seven courses that are completed over three consecutive terms. The duration of the program may be extended with the approval of the senior supervisor and graduate chair/director. Courses will be dependent upon which stream a student is completing. These are

Stream 1 - International Development
Stream 2 - Governance and Conflict

In addition, students can earn a regional concentration by completing two courses and writing their thesis (IS 898) or extended essay (IS 880) on their region of expertise. Approved courses for each regional concentration can be found below.

The available concentrations are

Latin American Studies
Middle Eastern Studies
Southeastern European Studies

Admission Requirements

Normally, to be considered for admission, applicants must have a bachelor's degree with a cumulative grade point average of at least 3.5 from a recognized university, preferably in an arts or social sciences discipline. In addition, the School also requires a statement of research interest. Those admitted with other credentials or those with arts degrees who in the judgment of the Graduate Chair are without adequate foundation in the social sciences may be required to make up any deficiency without receiving graduate credit for those courses. Students are admitted for commencement of studies in the fall semester only.

Application Requirements

Please consult the School for International Studies website.

Concurrent Bachelor's-Masters Program*
Admission Requirements

The minimum requirements for this concurrent degree program is as per Graduate General Regulation 1.3.8a. In addition, the School also requires a statement of research interest. Students may be admitted for commencement of studies in the fall and spring terms. Please note that this program is only available to current Simon Fraser University declared International Studies Major or Honours undergraduate students.

Application Requirements

Please consult the School for International Studies website. Applicants are encouraged to apply as soon as they have completed 90 units for their bachelor’s requirements.

*Students will be awarded a Bachelor of Arts (with major/honours and will be offered conditional admission into the Master of Arts in International Studies commencing in the fall term.) Students may complete a portion of graduate units towards their bachelor’s and master’s requirements concurrently.

Program Requirements

1. Extended Essays Track

Students complete a minimum of 30 units, including at least 24 units of coursework and two extended essays (6 units). Each extended essay should be approximately 8,000 words. The options are writing a policy briefing (or policy briefings), a review essay (or review essays), or some other type of writing focused on synthesis and analysis, rather than original research.

STREAM 1 INTERNATIONAL DEVELOPMENT

IS 800 - Problems of International Policy and Practice (4)
IS 801 - Institutions, Policies and Development (4)
IS 802 - Political Economy of Development (4)
IS 830 - Analytic Approaches for International Studies (4)
IS 880 - MA Extended Essays (6)
and two elective courses subject to approval of the graduate chair or director.

STREAM 2 GOVERNANCE AND CONFLICT

IS 800 - Problems of International Policy and Practice (4)
IS 806 - State Failure and Reconstruction: Comparative Perspectives (4)
IS 830 - Analytic Approaches for International Studies (4)
IS 840 - Perspectives in International Studies (4)
IS 880 - MA Extended Essays (6)
and two elective courses subject to approval from the graduate chair or program director.

2. Thesis Track

Students complete a minimum of 30 units**, including at least 20 units of coursework, the thesis prospectus course (2 units) and the thesis course (8 units). The thesis prospectus (IS 886) should be comprised of 3,000 words and should lay out a research question, the relevant scholarly literature and propose a method for conducting the research. Students will then research and write a thesis (IS 898) of between 14,000 to 16,000 words. The thesis will be the result of original research and will be designed with the goal of producing a publishable article.
**Those pursuing the optional regional concentration complete a minimum of 34 units, including at least 24 units of coursework, the thesis prospectus course (2 units) and the thesis course (8 units).

**STREAM 1 INTERNATIONAL DEVELOPMENT**

IS 800 - Problems of International Policy and Practice (4)
IS 801 - Institutions, Policies and Development (4)
IS 802 - Political Economy of Development (4)
IS 830 - Analytic Approaches for International Studies (4)
IS 886 - Thesis Prospectus (2)
IS 898 - MA Thesis (8)
and one elective course subject to approval of the graduate chair or director.

**STREAM 2 GOVERNANCE AND CONFLICT**

IS 800 - Problems of International Policy and Practice (4)
IS 806 - State Failure and Reconstruction: Comparative Perspectives (4)
IS 830 - Analytic Approaches for International Studies (4)
IS 840 - Perspectives in International Studies (4)
IS 886 - Thesis Prospectus (2)
IS 898 - MA Thesis (8)
and one elective course subject to approval of the graduate chair or director.

**CONCENTRATIONS**

**LATIN AMERICAN STUDIES (LAS)**

IS 815 - Theories of Latin American Development (4)
IS 835 - Social and Political Change in Latin America (4)
HIST 845 - Themes in Latin American History (5)
or an elective course with significant LAS content subject to the approval of the graduate chair or director.

**MIDDLE EASTERN STUDIES (MES)**

IS 814 - Special Topics on the Middle East (4)
HIST 852 - Themes in Middle Eastern History (5)
or an elective course with significant MES content subject to the approval of the graduate chair or director.

**SOUTHEASTERN EUROPEAN STUDIES (SEES)**

IS 845 - State Building and State Failures in the Balkans: From Greece to Yugoslavia and Back Again (4)
IS 865 - Asymmetrical, Conventional and Political Conflicts, 1870-2010 (4)
or an elective course with significant SEES content subject to the approval of the graduate chair or director.

**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.
International Studies

MASTER OF ARTS

Description of Program
This full-time 12 to 24 month program, leading to a master of arts (MA) in international studies, consists of seven courses that are completed over three consecutive terms. The duration of the program may be extended with the approval of the senior supervisor and graduate chair/director. In addition, students can earn a regional concentration by completing two courses and writing their thesis (IS 898) or extended essay (IS 880) on their region of expertise.

The available concentrations are:
Latin American Studies
Middle Eastern Studies

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Normally, to be considered for admission, applicants must have a bachelor's degree with a cumulative grade point average of at least 3.5 from a recognized university, preferably in an arts or social sciences discipline. In addition, the School also requires a statement of research interest. Those admitted with other credentials or those with arts degrees who in the judgment of the graduate chair are without adequate foundation in the social sciences may be required to make up any deficiency without receiving graduate credit for those courses.

Students are admitted for commencement of studies in the fall semester only. Please consult the school for international studies website for application requirements.

Accelerated Master's
The minimum requirements for this Accelerated Master's is as per Graduate General Regulation 1.3.8a. In addition, the School also requires a statement of research interest. Students may be admitted for commencement of studies in the fall and spring terms. Please note that this program is only available to current Simon Fraser University declared international studies major or honours undergraduate students.

Please consult the school for international studies website. Applicants are encouraged to apply as soon as they have completed 90 units for their bachelor's requirements.

Students will be awarded a bachelor of arts (with major/honours) and will be offered conditional admission into the master of arts in international studies commencing in the fall term. Students may complete a portion of graduate units towards their bachelor's and master's requirements concurrently.

Program Requirements

Extended Essays Option
This program consists of course work and two extended essays for a minimum of 30 units.
Students must complete
IS 800 - Problems of International Policy and Practice (4)
IS 801 - Institutions, Policies and Development (4)
IS 806 - State Failure and Reconstruction: Comparative Perspectives (4)
IS 830 - Analytic Approaches for International Studies (4)

and two elective graduate courses for a minimum of eight units (subject to approval of the graduate chair or director)

and two extended essays
IS 880 - MA Extended Essays (6)

Each extended essay should be approximately 8,000 words. Submission to the library is not required. The options are writing a policy briefing (or policy briefings), a review essay (or review essays), or some other type of writing focused on synthesis and analysis, rather than original research.

Thesis Option
This program consists of course work, a thesis prospectus, and a thesis for a minimum of 30 units. Students pursuing an optional regional concentration complete an additional four units of course work for a minimum of 34 units. Approved courses for each regional concentration can be found in the relevant section below.

Students must complete the following required courses:
IS 800 - Problems of International Policy and Practice (4)
IS 801 - Institutions, Policies and Development (4)
IS 806 - State Failure and Reconstruction: Comparative Perspectives (4)
IS 830 - Analytic Approaches for International Studies (4)

In addition, students are required to take one elective graduate course for a minimum of four units (subject to approval of the graduate chair or director) and a sign up for the thesis prospectus and MA thesis:

IS 886 - Thesis Prospectus (2)
IS 898 - MA Thesis (8)

The thesis prospectus should be comprised of 3,000 words and should lay out a research question, the relevant scholarly literature and propose a method for conducting the research. Students will then research and write a thesis of between 14,000 and 16,000 words. The thesis will be the result of original research and will be designed with the goal of producing a publishable article.

Regional Concentrations
The available regional concentration areas are Latin American Studies (LAS), Middle Eastern Studies (MES) and Southeastern European Studies (SEES).

Latin American Studies (LAS)
Students must complete two of the following
IS 815 - Theories of Latin American Development (4)
IS 835 - Social and Political Change in Latin America (4)
HIST 845 - Themes in Latin American History (5)
or an elective course with significant LAS content subject to the approval of the graduate chair or director
Middle Eastern Studies (MES)
Students must complete two of the following
IS 814 - Special Topics on the Middle East (4)
HIST 852 - Themes in Middle Eastern History (5)
or an elective course with significant MES content subject to the approval of the graduate chair or director

Program Length
Students pursuing the extended essays option will be able to complete the program requirements in three terms. Students pursuing the thesis option will also be able to complete the program requirements in three terms, however this option usually requires at least four terms of study.

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 to SGSC

To: Senate Graduate Studies Committee
From: Ian McCarthy, Associate Dean, Graduate Programs
Re: Curriculum revisions to MBA and GDBA
Date: April 20, 2017

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 Spring 2018.

Please include them on the next SGSC agenda.

- Course change (units): BUS 553
- GDBA calendar entry has been edited to account for BUS 553 unit change. Language edit to consistently use the term “academic director.”
- MBA calendar entry has been edited to account for BUS 553 unit change, and reformatted according to the new standardized format being implemented with the degree audit project. Some clean-up issues were also addressed

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

Dr. Ian P. McCarthy
Professor in Technology & Operations Management
Associate Dean, Graduate Programs, Beedie School of Business
## Calendar Entry Change for Masters of Business Administration (MBA)

**Summary of change:**

1. To change one existing course:
   i. **BUS 553 (2) - Business Analytics** to **BUS 553 (4) Business Analytics**
      (advance credit available in the Surrey MBA)

2. Update entire MBA calendar entry to reflect the recommended language per the Degree Audit: the calendar entries have been reformatted according to the new standardized format being implemented with the degree audit project and some clean-up issues were also addressed

**Rationale for change:**
- Doubling the number of units for BUS 553 would provide necessary additional time for students to learn and use increasingly sophisticated software tools by doubling the contact hours. This change would also highlight the importance of visual analytics in business
- To more clearly define the differences in requirements between the full-time and part-time MBA

**Effective term and year:** Spring 2018

**Will this change impact current students? If yes, what is the plan for current students?**

No.
MBA

MASTER OF BUSINESS ADMINISTRATION

This master of business administration (MBA) program provides broad-based and rigorous business education to prepare students for the global business world. The program is designed for individuals who are early in their career and have non-business undergraduate degrees.

Students who completed the graduate diploma in business administration (GDBA) at a suitable standard will qualify for waivers of equivalent courses.

Applicants should refer to the program website at http://www.beedie.sfu.ca/mba.

Admission Requirements

Entry is competitive. Meeting the minimum admission requirements does not guarantee acceptance. Applicants must have an undergraduate degree with a minimum 3.0 cumulative grade point average (CGPA) (B average) or an undergraduate degree and the graduate diploma in business administration (GDBA) with a minimum 3.0 cumulative grade point average (CGPA). In addition, applicants will be assessed on the basis of their verbal and quantitative GMAT scores; work/volunteer and/or community experience; other achievements, and letters of reference.

Application

Students can apply online at Simon Fraser University’s online graduate studies application for admission, found at www.sfu.ca/dean-gradstudies/future/application_process.

Admission is based on the following.

- MBA program application essay found at http://www.beedie.sfu.ca/mba.
- official undergraduate transcripts mailed directly from the granting institution
- a resume
- three confidential letters of reference mailed directly from the referees, preferably from supervisors or former professors
- graduate management admission test (GMAT) results
• Applicants whose primary language is not English, or whose previous education was conducted in another language, must submit evidence of satisfactory completion of a standardized English test that is acceptable to the University (see graduate general regulation 1.3.12).

• interview (shortlisted candidates only)

Program Requirements

Students must maintain a minimum 3.0 grade point average (GPA) (B average) and complete a minimum of 56 units from the following list including a comprehensive exam (BUS 729), selected special topics and substitute courses from other Graduate Business programs at the discretion of the Academic Chair:

BUS 702 - Marketing Management (3)
BUS 703 - Managerial Economics (3)
BUS 704 - Leadership and Teamwork (3)
BUS 705 - Financial/Managerial Accounting (3)
BUS 706 - Business Analytics (3)
BUS 707 - Business Ethics (2)
BUS 708 - Financial Management (3)
BUS 709 - Managing Information (3)
BUS 710 - Managing Global Enterprises (3)
BUS 711 - Negotiation and Conflict Resolution (3)
BUS 712 - Managing a Globalized Workforce (2)
BUS 714 - Entrepreneurship (3)
BUS 715 - Operations Management (3)
BUS 716 - Sustainability (3)
BUS 718 - Business Strategy (3)
BUS 719 - Managing People and Organizations (3)
BUS 720 - Special Topics in Business Administration (2)
BUS 721 - Special Topics in Business Administration (3)
BUS 722 - Special Topics in Business Administration (4)
BUS 723 - Introduction to Managerial Thought (2)
BUS 724 - Organizational Analysis (2)
BUS 725 - Cross Cultural Experience (2) *
BUS 726 - Business Innovation and Creativity (2)
BUS 727 - MBA Internship (0) ** or BUS 728 - Research Internship (0) ***
BUS 729 - Capstone Simulation (2)
BUS 733 - Negotiations (2)
BUS 734 - Entrepreneurship (4)
BUS 735 - Sustainability (4)
BUS 736 - Leading Self & Others (2)
BUS 737 - Business Strategy (4)
BUS 738 - Operations Management (4)
Students who have completed or have been enrolled in the graduate diploma in business administration program at SFU, may apply for advance credit for BUS 703, 705, 706, 707, 708, and 719. Students can apply for advance credit of BUS 702 at the discretion of the director. A minimum grade of a B (3.0) in the course equivalent is required.

* As part of this course, there is a mandatory cross-cultural study tour for all students in the full time MBA

** Students with sufficient full time work experience may receive advanced standing for Bus 727 MBA Internship.

*** for students entering 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.
MBA
MASTER OF BUSINESS ADMINISTRATION

Description of Program

The master of business administration (MBA) program provides broad-based and rigorous business education to prepare students for the global business world. The program is designed for individuals who are early in their career and hold an undergraduate degree.

Students who completed the graduate diploma in business administration (GDBA) at a suitable standard will qualify for advance credit of equivalent courses.

Applicants should refer to the program website at http://beedie.sfu.ca/graduate/mba/

Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Admission into this program is competitive. Meeting the minimum admission requirements does not guarantee acceptance. Applicants must have an undergraduate degree with a minimum 3.0 cumulative grade point average (CGPA) which is a B average or an undergraduate degree and graduate diploma in business administration (GDBA) with a minimum 3.0 CGPA. In addition, applicants will be assessed on the basis of their verbal and quantitative GMAT scores, work/volunteer and/or community experience, other achievements, and letters of reference.

Application

Students can apply online at Simon Fraser University’s online graduate studies application for admission, found at https://www.sfu.ca/dean-gradstudies/future/application_process.html

Program Requirements

This program consists of course requirements and an internship for a minimum of 56 units. Courses from other SFU graduate business programs, or special topic courses, may be substituted for courses below at the discretion of the academic director.

Full-time MBA
Students in the full-time program must complete all of
BUS 702 - Marketing Management (3)
BUS 703 - Managerial Economics (3)
BUS 704 - Leadership and Teamwork (3)
BUS 705 - Financial/Managerial Accounting (3)
BUS 706 - Business Analytics (3)
BUS 707 - Business Ethics (2)
BUS 708 - Financial Management (3)
BUS 709 - Managing Information (3)
BUS 710 - Managing Global Enterprises (3)
BUS 711 - Negotiation and Conflict Resolution (3)
BUS 712 - Managing a Globalized Workforce (2)
BUS 714 - Entrepreneurship (3)
BUS 715 - Operations Management (3)
BUS 716 - Sustainability (3)
BUS 718 - Business Strategy (3)
BUS 719 - Managing People and Organizations (3)
BUS 720 - Special Topics in Business Administration (2)
BUS 723 - Introduction to Managerial Thought (2)
BUS 724 - Organizational Analysis (2)
BUS 725 - Cross Cultural Experience (2)

and an internship
BUS 727 - MBA Internship (0) or BUS 728 - Research Internship (0) *

and a capstone simulation
BUS 729 - Capstone Simulation (2)

* BUS 728 should be taken by students entering the PhD program

Students who have completed or have been enrolled in the graduate diploma in business administration program at SFU may receive advance credit for BUS 703, 705, 706, 707, 708, and 719 at the discretion of the academic director. A minimum grade of B (3.0) in the course equivalent is required.

Part-time MBA

Students in the part-time program must complete all of
BUS 510 - Financial and Managerial Accounting (4)
BUS 552 - Managerial Economics (4)
BUS 553 - Business Analytics (4)
BUS 555 - Managerial Finance (4)
BUS 556 - Marketing Management (4)
BUS 557 - Managing People and Organizations (4)
BUS 707 - Business Ethics (2)
BUS 720 - Special Topics in Business Administration (2)
BUS 725 - Cross Cultural Experience (2)
BUS 726 - Business Innovation and Creativity (2)
BUS 733 - Negotiations (2)
BUS 734 - Entrepreneurship (4)
BUS 735 - Sustainability (4)
BUS 736 - Leading Self & Others (2)
BUS 737 - Business Strategy (4)
BUS 738 - Operations Management (4)
BUS 739 - Managing Information (4)
and a capstone simulation
BUS 729 - Capstone Simulation (2)

NOTE: The internship is not required for the part-time MBA program.

Students who have completed or have been enrolled in the graduate diploma in business administration program at SFU may receive advance credit for BUS 510, 552, 553, 555, 556, 557, 707, and 739 at the discretion of the academic director. A minimum grade of B (3.0) in the course equivalent is required.

Program Length
Students are expected to complete the academic portion of the full-time MBA in three terms and the internship portion in one term. Students are expected to complete the part-time MBA in six terms.

Academic Requirements within the Graduate General Regulations
All graduate students must satisfy the academic requirements specified in the Graduate General Regulations, as well as the specific requirements for the program in which they are enrolled.
ATTENTION: Senate Graduate Studies Committee

FROM: Shawn Bullock, Associate Dean, Graduate Studies in Education

RE: Calendar Entry and Curriculum Changes

DATE: 2017 May 15

The following changes have been approved by the Faculty of Education and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for the Spring 2018 term. Please include on the next SGSC agenda.

Course Change:
EDUC 899 Doctoral Thesis

Program Changes to Minimum Unit Requirements:
- Arts Education, Doctor of Philosophy
- EdD, Doctor of Education
- Educational Psychology, Doctor of Philosophy
- Educational Technology and Learning Design, Doctor of Philosophy
- Educational Theory and Practice, Doctor of Philosophy
- Languages, Cultures and Literacies, Doctor of Philosophy
- Mathematics Education, Doctor of Philosophy

Program Change to Course Requirements:
- Arts Education Doctor of Philosophy – add EDUC 901A and EDUC 901B or EDUC 902A and EDUC 902B

Reformatted Calendar Entries – program length information added:
- Advanced Studies in Education, Graduate Diploma
- Arts Education, Master of Arts
- Arts Education, Master of Education
- Arts Education, Doctor of Philosophy
- Counselling Psychology, Master of Arts
Counselling Psychology, Master of Education  
Curriculum and Instruction, Graduate Certificate  
Curriculum and Instruction, Master of Arts  
Curriculum and Instruction, Master of Education  
EdD, Doctor of Education  
Education Individual Program, Master of Arts  
Education Individual Program, Master of Education  
Educational Leadership, Graduate Certificate  
Educational Leadership, Master of Arts  
Educational Leadership, Master of Education  
Educational Practice, Master of Education  
Educational Psychology, Master of Arts  
Educational Psychology, Master of Education  
Educational Psychology, Doctor of Philosophy  
Educational Technology and Learning Design, Master of Arts  
Educational Technology and Learning Design, Doctor of Philosophy  
Educational Theory and Practice, Doctor of Philosophy  
Imaginative Education, Graduate Certificate  
Languages, Cultures and Literacies, Doctor of Philosophy  
Mathematics Education, Doctor of Philosophy  
Secondary Mathematics Education, Master of Education  
Secondary Mathematics Education, Master of Science  
TEAL – Teaching English as an Additional Language (TESL/TEFL), Master of Arts  
TEAL – Teaching English as an Additional Language (TESL/TEFL), Master of Education

Should you have any questions regarding this matter, please do not hesitate to contact me directly.

Shawn M. Bullock, Ph.D., P. Phys.  
Associate Dean  
Graduate Studies in Education
Advanced Professional Studies in Education

GRADUATE DIPLOMA

This diploma program, administered through Field Programs, consists of a minimum of 30 units in 500 division EDPR courses (the total units may vary, depending on the program content but will not be less than this.) Course work from other programs or universities may not be transferred into this graduate diploma program.

Graduate diploma programs are developed in co-operation with other educational partners (E.G. school districts and consortia, Ministry of Education regional offices) and all courses are offered at off-campus sites. Each program addresses a theme that is relevant to that particular educational community.

Students normally progress through the program as a cohort.

For further information, contact Field Programs at 778-782-4892, Fax 778-782-5882, edprgpa@sfu.ca, http://www.educ.sfu.ca/gs/field-programs/graddiplomafp.html

Admission Requirements

The minimum admission requirements are

- a bachelor's degree from a recognized university
- a teaching certificate based on a recognized teacher preparation program, and
- submitted evidence of the student's ability to undertake advanced work in education.

For further information about admission, see the Field Programs website at http://www.educ.sfu.ca/gs/field-programs/graddiplomafp/future-students/gradapplicationfp.html

Under exceptional circumstances, applicants who do not meet the minimum requirements but have extensive professional experience may be considered for admission to a graduate diploma program after evaluation of such experience.

Applications are reviewed three times a year for summer, spring and fall admissions. See the Field Programs website at http://www.educ.sfu.ca/ip/gd/offerings.html for current offerings and application deadlines.

Program Requirements
Students complete a minimum of 30 units including a balance from each of the following categories.

EDPR 501-520 Special Topics
EDPR 521-540 Special Topics
EDPR 541-550 Advanced Field Studies in Curriculum Development I
EDPR 551-560 Advanced Field Studies in Curriculum Development II
EDPR 561-570 Advanced Field Studies in Educational Practice I
EDPR 571-580 Advanced Field Studies in Educational Practice II
EDPR 581-590 Advanced Field Studies in Collaborative Inquiry I
EDPR 591-599 Advanced Field Studies in Collaborative Inquiry II

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.
Advanced Professional Studies in Education

GRADUATE DIPLOMA

Description of Program
Graduate diploma programs are developed in co-operation with other educational partners (e.g. school districts and consortia, Ministry of Education regional offices) and all courses are offered at off-campus sites. Each program addresses a theme that is relevant to that particular educational community. Students normally progress through the program as a cohort.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

The minimum admission requirements are

- a bachelor’s degree from a recognized university
- a teaching certificate based on a recognized teacher preparation program, and
- submitted evidence of the student’s ability to undertake advanced work in education.

For further information about admission, see the Field Programs website at http://www.educ.sfu.ca/gs/field-programs/graddiplomafp/future-students/gradapplicationfp.html

Program Requirements
This program consists of 500 division EDPR courses for a minimum of 30 units. The total units may vary, depending on the program content, but will not be less than 30 units. Course work from other programs or universities may not be transferred into this graduate diploma program.

The courses should include a balance from each of the following categories:

EDPR 501-520 Special Topics
EDPR 521-540 Special Topics
EDPR 541-550 Advanced Field Studies in Curriculum Development I
EDPR 551-560 Advanced Field Studies in Curriculum Development II
EDPR 561-570 Advanced Field Studies in Educational Practice I
EDPR 571-580 Advanced Field Studies in Educational Practice II
EDPR 581-590 Advanced Field Studies in Collaborative Inquiry I
EDPR 591-599 Advanced Field Studies in Collaborative Inquiry II
Program Length
Students are expected to complete the program requirements within six 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Arts Education

MASTER OF ARTS

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. Graduate programs leading to this degree culminates with a master's thesis (EDUC 898).

This program is for students who wish to continue developing critical knowledge of arts theory and practice related to education, program development, and learning and teaching and is suitable for those working in schools and other arts-based contexts.

The program requires a minimum of 25 units of course work and a thesis (EDUC 898-10).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete five of

EDUC 843 · Embodiment and Curriculum Inquiry (5)
EDUC 848 · Ideas and Issues in Aesthetic Education (5)
EDUC 849 · Artists, Society and Arts Education (5)
EDUC 852 · Inquiry, Creativity and Community: Drama in Education (5)
EDUC 868 · Curriculum Theory and Art Education (5)
EDUC 869 · Music Education as Thinking in Sound (5)

Normally, students enter through the MEd program and may move to the MA program after completing four courses with faculty approval. Other courses may be required depending on thesis interest.

Thesis
Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing:

EDUC 898 - Master's Thesis (10)

The master's thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

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.
Arts Education
MASTER OF ARTS

Description of Program
The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. This program is for students who wish to continue developing critical knowledge of arts theory and practice related to education, program development, and learning and teaching and is suitable for those working in schools and other arts-based contexts.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a thesis for a minimum of 35 units. Normally, students enter through the MEd program and may move to the MA program after completing four courses with faculty approval. Other courses may be required depending on thesis interest.

Students must complete five of
EDUC 843 - Embodiment and Curriculum Inquiry (5)
EDUC 848 - Ideas and Issues in Aesthetic Education (5)
EDUC 849 - Artists, Society and Arts Education (5)
EDUC 852 - Inquiry, Creativity and Community: Drama in Education (5)
EDUC 868 - Curriculum Theory and Art Education (5)
EDUC 869 - Music Education as Thinking in Sound (5)

and a thesis
EDUC 898 - Master's Thesis (10)

Thesis
Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee. The master's thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Arts Education

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

This program is for students who wish to continue developing critical knowledge of arts theory and practice related to education, program development, and learning and teaching, and is suitable for those working in schools and other arts-based contexts.

The program requires a minimum of 30 units of course work and a comprehensive exam. The program culminates with a comprehensive examination (EDUC 883-5).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete all of

EDUC 843 - Embodiment and Curriculum Inquiry (5)
EDUC 848 - Ideas and Issues in Aesthetic Education (5)
EDUC 849 - Artists, Society and Arts Education (5)
EDUC 852 - Inquiry, Creativity and Community: Drama in Education (5)
EDUC 868 - Curriculum Theory and Art Education (5)
EDUC 869 - Music Education as Thinking in Sound (5)

Normally, students enter through the MEd program and may move to the MA program after completing four courses and with faculty approval.

Comprehensive Examination
Candidates must complete a comprehensive examination by enrolling in EDUC 883. Normally, this occurs in the term in which course requirements are completed or in the immediately following term. The examination is set by faculty members associated with the program and in association with the graduate director.

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.
Arts Education
MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. This program is for students who wish to continue developing critical knowledge of arts theory and practice related to education, program development, and learning and teaching, and is suitable for those working in schools and other arts-based contexts.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 35 units.

Students complete all of
EDUC 843 - Embodiment and Curriculum Inquiry (5)
EDUC 848 - Ideas and Issues in Aesthetic Education (5)
EDUC 849 - Artists, Society and Arts Education (5)
EDUC 852 - Inquiry, Creativity and Community: Drama in Education (5)
EDUC 868 - Curriculum Theory and Art Education (5)
EDUC 869 - Music Education as Thinking in Sound (5)

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

The comprehensive examination normally occurs in the term in which course requirements are completed or in the term immediately following. The examination is set by faculty members associated with the program and in association with the graduate director.

Program Length
Students are expected to complete the program requirements within six 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Arts Education

Doctor of Philosophy

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program is for those interested in becoming scholars and leaders in arts education.

This program requires successful completion of a minimum of 20 units of course work and culminates in a comprehensive examination and a doctoral thesis.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available from the Faculty of Education.

Program Requirements

Students complete one of

EDUC 901 - Seminar in the History of Educational Theory (5)
EDUC 902 - Interdisciplinary Seminar in Contemporary Educational Theory (5)

and all of

EDUC 943 - Arts-Based Inquiry in Educational Research (5)
EDUC 944 - Aesthetic Ways of Knowing and Education (5)
EDUC 945 - Doctoral Seminar in Arts Education (5)

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in

EDUC 983 - Doctoral Comprehensive Examination (5)
Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following.

**Thesis**

A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

**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.
Arts Education
DOCTOR OF PHILOSOPHY

Description of Program
Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program is for those interested in becoming scholars and leaders in arts education.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses, a comprehensive examination and a thesis for a minimum of 41 units.

Students must complete
EDUC 943 - Arts-Based Inquiry in Educational Research (5)
EDUC 944 - Aesthetic Ways of Knowing and Education (5)
EDUC 945 - Doctoral Seminar in Arts Education (5)

and
EDUC 901A - Seminar in the History of Educational Theory A (3)
EDUC 901B - Seminar in the History of Educational Theory B (3)

or
EDUC 902A - Interdisciplinary Seminar in Contemporary Educational Theory A (3)
EDUC 902B - Interdisciplinary Seminar in Contemporary Educational Theory B (3)

and a comprehensive examination
EDUC 983 - Doctoral Comprehensive Examination (5)

and a thesis
EDUC 899 - Doctoral Thesis (15)

The comprehensive examination is normally completed in the term in which course requirements are completed, or the term immediately following. A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee.

Program Length
Students are expected to complete the program requirements within 18 terms.
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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Counselling Psychology

MASTER OF ARTS

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. Graduate programs leading to this degree culminate with a master's thesis (EDUC 898).

This program is for students interested in careers as counsellors in schools, colleges, and community agencies. Students pursue a general program with specialized course and fieldwork opportunities.

The program requires the completion of a minimum of 34 units of required and elective graduate courses and EDUC 898-10.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete a thesis and a minimum of 34 units of coursework, including all of

EDUC 799 - Supervised Counselling Clinic I (3)
EDUC 800 - Supervised Counselling Clinic II (3)
EDUC 801 - Counselling Practicum I (1.5)
EDUC 802 - Counselling Practicum II (1.5)
EDUC 862 - Individual Assessment in Counselling (3)
EDUC 870 - Theories of Counselling (3)
EDUC 872 - Ethics in Counselling Psychology (3)
EDUC 874 - Counselling Skills and Strategies (5)
EDUC 878 - Group Counselling (5)

and one methodology research course selected from the list below, in consultation with the senior supervisor
EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 864 - Research Designs in Education (5)
EDUC 866 - Qualitative Methods in Educational Research (5)

and one of

EDUC 871 - Family Counselling (3)
EDUC 873 - Career Counselling (3)

**Thesis**

Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing EDUC 898 - Master's Thesis (10)

The master's thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

**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.
Counselling Psychology

MASTER OF ARTS

Description of Program
The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. This program is for students interested in careers as counsellors in schools, colleges, and community agencies. Students pursue a general program with specialized course and fieldwork opportunities.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a thesis for a minimum of 44 units.

Students must complete
EDUC 799 - Supervised Counselling Clinic I (3)
EDUC 800 - Supervised Counselling Clinic II (3)
EDUC 801 - Counselling Practicum I (1.5)
EDUC 802 - Counselling Practicum II (1.5)
EDUC 862 - Individual Assessment in Counselling (3)
EDUC 870 - Theories of Counselling (3)
EDUC 872 - Ethics in Counselling Psychology (3)
EDUC 874 - Counselling Skills and Strategies (5)
EDUC 878 - Group Counselling (5)

and one methodology research course selected from the list below, in consultation with the senior supervisor
EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 864 - Research Designs in Education (5)
EDUC 866 - Qualitative Methods in Educational Research (5)

and one of
EDUC 871 - Family Counselling (3)
EDUC 873 - Career Counselling (3)

and a thesis
EDUC 898 - Master's Thesis (10)

Thesis
Normally before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least
one other faculty member, chosen in consultation with the senior supervisor, constitute the supervisory committee. The master's thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Counselling Psychology

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

This program is for students who wish to become counsellors in educational settings.

The program requires 39 units of required and elective course work and a comprehensive examination. The program culminates with a comprehensive exam (EDUC 883) which occurs after completing course work and supervised field experiences.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete a comprehensive examination and a minimum of 39 units of coursework, including all of

EDUC 799 - Supervised Counselling Clinic I (3)
EDUC 800 - Supervised Counselling Clinic II (3)
EDUC 801 - Counselling Practicum I (1.5)
EDUC 802 - Counselling Practicum II (1.5)
EDUC 862 - Individual Assessment in Counselling (3)
EDUC 864 - Research Designs in Education (5)
EDUC 870 - Theories of Counselling (3)
EDUC 872 - Ethics in Counselling Psychology (3)
EDUC 874 - Counselling Skills and Strategies (5)
EDUC 877 - Contemporary School Counselling (3)
EDUC 878 - Group Counselling (5)

and one of
Comprehensive Examination

Candidates complete a comprehensive examination by enrolling in

EDUC 883 - MEd Comprehensive Examination (5)

Normally, the comprehensive examination occurs in the term in which course requirements are completed, or in the term immediately following.

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.
Counselling Psychology
MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. This program is for students who wish to become counsellors in educational settings.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 44 units.

Students must complete
EDUC 799 - Supervised Counselling Clinic I (3)
EDUC 800 - Supervised Counselling Clinic II (3)
EDUC 801 - Counselling Practicum I (1.5)
EDUC 802 - Counselling Practicum II (1.5)
EDUC 862 - Individual Assessment in Counselling (3)
EDUC 864 - Research Designs in Education (5)
EDUC 870 - Theories of Counselling (3)
EDUC 872 - Ethics in Counselling Psychology (3)
EDUC 874 - Counselling Skills and Strategies (5)
EDUC 877 - Contemporary School Counselling (3)
EDUC 878 - Group Counselling (5)

and one of
EDUC 871 - Family Counselling (3)
EDUC 873 - Career Counselling (3)

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

The comprehensive examination normally occurs in the term in which course requirements and supervised field experiences are completed, or in the term immediately following.

Program Length
Students are expected to complete the program requirements within eight 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Curriculum and Instruction

GRADUATE CERTIFICATE

The graduate certificate in curriculum and instruction is a professional credential signifying knowledge and ability in educational practice.

This program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices in relation to research and theory.

The program requires 18 units of course work. As per graduate general regulation 1.7.6, students who successfully complete this certificate and are subsequently accepted into the Master of Education (MEd) in Curriculum and Instruction program may apply 15 units from the certificate program toward completion of the MEd program.

For further information, contact Graduate Programs within the Faculty of Education at 778.782.5951 or cpmed@sfu.ca.

Admission Requirements

See graduate general regulations 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific credential and to a particular program or specialization. Updated application information is available from the Faculty of Education.

Program Requirements

Students complete a total of 18 units, including three of

EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 858 - Intercultural Perspectives and Practices in Francophone School Contexts (5)

and
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.
Curriculum and Instruction
GRADUATE CERTIFICATE

Description of Program
The graduate certificate in curriculum and instruction is a professional credential signifying knowledge and ability in educational practice. This program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices in relation to research and theory.

As per graduate general regulation 1.7.6, students who successfully complete this certificate and are subsequently accepted into the Master of Education (MEd) in Curriculum and Instruction program, may apply 15 units from the certificate program toward completion of the MEd program.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific credential and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses for a minimum of 18 units.

Students must complete three of
EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 858 - Intercultural Perspectives and Practices in Francophone School Contexts (5)

and
EDUC 714 - Special Topics (3)

Program Length
Students are expected to complete the program requirements within 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Curriculum and Instruction

MASTER OF ARTS

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. Graduate programs leading to this degree culminates with a master's thesis (EDUC 898).

The program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices and to consider the match between practices and developing education theories.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information is available from the Faculty of Education. All applications are reviewed once a year.

Program Requirements

This program requires a minimum of 25 units of course work and a thesis (EDUC 898-10).

The program can focus on an area of specialization such as equity studies, foundations, health, French education, imaginative education, or can be pursued as a general program. Each specialization will determine a minimum of three courses that will be considered core for the specialization from the list below. Current information about the specializations is available from the Graduate Programs office in the Faculty of Education. Each program specialization is subject to the normal faculty approval process.

EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 837 - Seminar in Education, Equity, and Social Theories (5)
Thesis

Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing:

EDUC 898 - Master's Thesis (10)

The master’s thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

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.
CURRICULUM AND INSTRUCTION

MASTER OF ARTS

DESCRIPTION OF PROGRAM

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. The program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices and to consider the match between practices and developing education theories.

ADMISSION REQUIREMENTS

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

PROGRAM REQUIREMENTS

This program consists of courses and a thesis or two extended essays for a minimum of 30 units.

THESIS OPTION

Students must complete a minimum of two courses from the following
EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 837 - Seminar in Education, Equity, and Social Theories (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)
EDUC 858 - Intercultural Perspectives and Practices in Francophone School Contexts (5)
EDUC 864 - Research Designs in Education (5)
EDUC 901A - Seminar in the History of Educational Theory A (3)
EDUC 901B - Seminar in the History of Educational Theory B (3)
EDUC 902A - Interdisciplinary Seminar in Contemporary Educational Theory A (3)
EDUC 902B - Interdisciplinary Seminar in Contemporary Educational Theory B (3)

and a minimum additional two courses as chosen by the specialization

and a thesis
EDUC 898 - Master's Thesis (10)

EXTENDED ESSAYS OPTION

Students must complete a minimum of two courses from the following
EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 837 - Seminar in Education, Equity, and Social Theories (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)
EDUC 858 - Intercultural Perspectives and Practices in Francophone School Contexts (5)
EDUC 901A - Seminar in the History of Educational Theory A (3)
EDUC 901B - Seminar in the History of Educational Theory B (3)
EDUC 902A - Interdisciplinary Seminar in Contemporary Educational Theory A (3)
EDUC 902B - Interdisciplinary Seminar in Contemporary Educational Theory B (3)

And a minimum additional two courses as chosen by the specialization.

and two extended essays for oral examination by two readers
EDUC 882 – MA Extended Essays (6)

Specialization
The program can focus on an area of specialization such as educational theory and practice, equity studies, foundations, health, French education, imaginative education, or can be pursued as a general program. Each specialization will determine a minimum of two courses that will be considered core for the specialization from the courses listed above. Current information about the specializations is available from the graduate programs office in the Faculty of Education. Each specialization is subject to the normal faculty approval process.

Thesis
Normally, before the fourth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee. The master's thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Curriculum and Instruction

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

This program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices and to consider the match between practices and developing education theories.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information is available from the Faculty of Education.

Program Requirements

This program requires a minimum of 30 units of course work and a comprehensive examination (EDUC 883-5).

The program can focus on an area of specialization such as equity studies, foundations, health, French education, imaginative education, or can be pursued as a general program. Each specialization will determine a minimum of three courses that will be considered core for the specialization from the list below. Current information about the specializations is available from the Graduate Programs office in the Faculty of Education. Each program specialization is subject to the normal faculty approval process.

EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 837 - Seminar in Education, Equity, and Social Theories (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)
Comprehensive Examinations

Candidates must complete a comprehensive examination by enrolling in EDUC 883-5. Normally, this occurs in the term in which course requirements are completed or in the term immediately following. The examination is set by faculty members associated with the program, in association with the graduate director.

Community Graduate Programs – Two Year Option

This program is also offered as a two year program that is often situated in communities throughout the provinces of British Columbia and Alberta. It caters to practicing educators who wish to improve their abilities to critically read, evaluate and integrate educational theory and research. The program's focus will be on a theme that integrates scholarly inquiry with focal interests and professional practice needs.

Classes normally are scheduled every second weekend at the program location.

School districts, educational institutions, groups and individuals interested in an MEd community graduate program should contact the office at 778.782.5897 or visit http://www.sfu.ca/education/gs/explore/programdevelopment.html

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.
Curriculum and Instruction
MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. This program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices and to consider the match between practices and developing education theories.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 35 units.

Students must complete three of
EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 837 - Seminar in Education, Equity, and Social Theories (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)
EDUC 858 - Intercultural Perspectives and Practices in Francophone School Contexts (5)
EDUC 864 - Research Designs in Education (5)

and three additional courses as chosen by the specialization

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

Specialization
The program can focus on an area of specialization such as equity studies, foundations, health, French education, imaginative education, or can be pursued as a general program. Each specialization will determine a minimum of three courses that will be considered core for the specialization from the courses listed above. Current information about the specializations is available from the graduate programs office in the Faculty of Education. Each program specialization is subject to the normal faculty approval process.

Comprehensive examination
The comprehensive examination normally occurs in the term in which course requirements are completed or in the term immediately following. The examination is set by faculty members associated with the program, in association with the graduate director.

Community Graduate Program – two year option
This program is also offered as a two year program that is often situated in communities throughout the provinces of British Columbia and Alberta. It caters to practicing educators who wish to improve their abilities to critically read, evaluate and integrate educational theory and research. The program's focus will be on a theme that integrates scholarly inquiry with focal interests and professional practice needs.

Classes normally are scheduled every second weekend at the program location.

Program Length
Students are expected to complete the program requirements within six 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

EdD

DOCTOR OF EDUCATION

The EdD programs are designed for educators who work full time.

EdD programs require successful completion of 40 units of graduate work consisting of 25 units divided among required and designated courses, EDUC 983-5 Doctoral Comprehensive Examination and EDUC 899-10 Doctoral Thesis.

For further information, contact Graduate Programs within the Faculty of Education at 778-782-8099 or educedcl@sfu.ca.

Admission Requirements

See Graduate General Regulations 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available at http://www.sfu.ca/education/gs/degree-grad.html.

Information concerning EdD programs can be obtained at http://www.sfu.ca/education/gs/degree-grad/doctoral.html.

Tel: 778-782-8099
Fax: 778-782-8119

Program Requirements

Required Courses

EDUC 950 - Approaches to Educational Research (5)
EDUC 964 - Seminar in Educational Theory (5)
EDUC 983 - Doctoral Comprehensive Examination (5)
EDUC 899 - Doctoral Thesis (10)

Designated Courses
Three 5 unit graduate courses will be designated by the specific EdD faculty team that is responsible for program focus, design, teaching and senior supervision. Designated courses will vary depending on program focus.

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in

EDUC 983 - Doctoral Comprehensive Examination (5)

Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following.

Thesis

A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

Educational Leadership

This EdD program looks beyond educational leadership as the application of generic management techniques. It prepares leaders for situations where technique is insufficient and prepares educational leaders to deal with currently pressing issues and to understand deeper ethical, political, socio-cultural, technological and educational matters.

Designated Courses

EDUC 960 - Ethics, Law and Professional Leadership (5)
EDUC 961 - Educational Governance, Reform and Diversity (5)
EDUC 962 - Leadership, Accountability and the Public Interest (5)

Doctorat en leadership éducationnel (Ed.D.)

Le programme de Doctorat en leadership éducationnel (EdD) est conçu spécialement pour former des chefs de file parmi les personnes qui travaillent ou planifient de travailler dans le domaine de l'éducation (écoles, collèges et centres de formation) ou dans d'autres services publics ou parapublics (santé, services sociaux, services communautaires, fonction publique, ONG, agences de développement, organismes culturels, etc.).

Cours Obligatoires

EDUC 960-5 Quelques enjeux éthiques, juridiques et politiques dans la gestion de la diversité
EDUC 961-5 Gouvernance éducationnelle et discours sur les réformes sociales
EDUC 962-5 Leadership, imputabilité et l'intérêt public


Tel: 778-782-6927
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.
EdD

DOCTOR OF EDUCATION

Description of Program
The EdD programs are designed for educators who work full time.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available at http://www.sfu.ca/education/gs/degrediploma.html. Information concerning EdD programs can be obtained at http://www.sfu.ca/education/gs/degrediploma/doctoral.html.

Program Requirements
This program consists of required courses, designated courses, a comprehensive examination and a thesis for a minimum of 45 units.

Students must complete
EDUC 950 - Approaches to Educational Research (5)
EDUC 964 - Seminar in Educational Theory (5)

and three 5 unit graduate courses designated by the specific EdD faculty team that is responsible for program focus, design, teaching and senior supervision (these courses will vary depending on program focus)

and a comprehensive examination
EDUC 983 - Doctoral Comprehensive Examination (5)

and a thesis
EDUC 899 - Doctoral Thesis (15)

The comprehensive examination is normally completed in the term in which course requirements are completed, or the term immediately following. A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry to the program, students enrol in EDUC 899 every term.

Educational Leadership
This EdD program looks beyond educational leadership as the application of generic management techniques. It prepares leaders for situations where technique is insufficient and prepares educational leaders to deal with currently pressing issues and to understand deeper ethical, political, socio-cultural, technological and educational matters.

Designated courses:
EDUC 960 - Ethics, Law and Professional Leadership (5)
EDUC 961 - Educational Governance, Reform and Diversity (5)
EDUC 962 - Leadership, Accountability and the Public Interest (5)

**Doctorat en leadership éducationnel (EdD)**
Le programme de Doctorat en leadership éducationnel (EdD) est conçu spécialement pour former des chefs de file parmi les personnes qui travaillent ou planifient de travailler dans le domaine de l'éducation (écoles, collèges et centres de formation) ou dans d'autres services publics ou parapublics (santé, services sociaux, services communautaires, fonction publique, ONG, agences de développement, organismes culturels, etc.).

**Cours Obligatoires:**
- EDUC 960-5 Quelques enjeux éthiques, juridiques et politiques dans la gestion de la diversité
- EDUC 961-5 Gouvernance éducationnelle et discours sur les réformes sociales
- EDUC 962-5 Leadership, imputabilité et l'intérêt public


**Program Length**
Students are expected to complete the program requirements within 18 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Faculty of Education
Simon Fraser University Calendar | Summer 2017

Education Individual Program

MASTER OF ARTS

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. Graduate programs leading to this degree culminate with a master's thesis (EDUC 898).

In exceptional cases, when no other regular master's program can accommodate special interests, an applicant may propose an individual program.

The program requires 25 units of course work and a thesis (EDUC 898).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Individual Program's Specific Admission Requirements

Applicants will submit a proposal detailing the following.

- the inquiry to be pursued for the master's thesis
- courses proposed and their sequence (called the plan of study and research)
- a rationale for how the proposed courses contribute to the master's thesis
- the program may contain a combination of up to 10 units of course work in Directed Readings and/or EDUC 811 or 812 Fieldwork
- an explanation of how the applicant's interests are not met by a regularly offered master's program

In addition to other criteria considered for admission, the director of graduate programs or designate will adjudicate the plan of study and research regarding availability of resources to support it and whether it can be completed in reasonable time.
Supervision

The individual program's curriculum plan must be developed with, and approved by, a faculty sponsor who automatically becomes the senior supervisor of the master's project or thesis. A second person suitably qualified in relation to the project or thesis joins the supervisory committee normally before the completion of the fourth course.

Thesis

Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing:

EDUC 898 - Master's Thesis (10)

The master's thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

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.
REVISED
CALENDAR ENTRY

**Education Individual Program**

**MASTER OF ARTS**

**Description of Program**
The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. In exceptional cases, when no other regular master's program can accommodate special interests, an applicant may propose an individual program.

**Admission Requirements**
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Applicants will submit a proposal detailing the following.

- the inquiry to be pursued for the master's thesis
- courses proposed and their sequence (called the plan of study and research)
- a rationale for how the proposed courses contribute to the master's thesis
- the program may contain a combination of up to 10 units of course work in Directed Readings and/or EDUC 811 or 812 Fieldwork
- an explanation of how the applicant's interests are not met by a regularly offered master's program

In addition to other criteria considered for admission, the director of graduate programs or designate will adjudicate the plan of study and research regarding availability of resources to support it and whether it can be completed in reasonable time.

**Program Requirements**
This program consists of 25 units of course work and a thesis for a minimum of 35 units.

**EDUC 898 - Master's Thesis (10)**

The individual program's curriculum plan must be developed with, and approved by, a faculty sponsor who automatically becomes the senior supervisor of the master's thesis. A second person suitably qualified in relation to the thesis joins the supervisory committee normally before the completion of the fourth course.

Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee. The master's thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.

**Program Length**
Students are expected to complete the program requirements within nine 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Faculty of Education
Simon Fraser University Calendar | Summer 2017

Education Individual Program

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

In exceptional cases, when no other regular master's program can accommodate special interests, an applicant may propose an individual program.

The program requires 30 units of course work and an MEd project (EDUC 881).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admissions is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Individual Program's Specific Admission Requirements

Applicants will submit a proposal detailing the following.

- the inquiry to be pursued for the master's project
- courses proposed and their sequence (called the plan of study and research)
- a rationale for how the proposed courses contribute to the master's project
- the program may contain a combination of up to 10 units of course work in Directed Readings and/or EDUC 811 or 812 Fieldwork
- an explanation of how the applicant's interests are not met by a regularly offered master's program

In addition to other criteria considered for admission, the director of graduate programs or designate will adjudicate the plan of study and research regarding availability of resources to support it and whether it can be completed in reasonable time.

Supervision
The individual program's plan of study must be developed with, and approved by, a faculty sponsor who automatically becomes the senior supervisor of the master's project. A second person suitably qualified in relation to the project joins the supervisory committee normally before the completion of the fourth course.

Project

In the individual program, the MEd culminates in a project that materially and substantially relates theory to practice, or that systematically examines a significant problem in education (EDUC 881-5).

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.
Education Individual Program

MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. In exceptional cases, when no other regular master’s program can accommodate special interests, an applicant may propose an individual program.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Applicants will submit a proposal detailing the following.

• the inquiry to be pursued for the master’s thesis
• courses proposed and their sequence (called the plan of study and research)
• a rationale for how the proposed courses contribute to the master’s thesis
• the program may contain a combination of up to 10 units of course work in Directed Readings and/or EDUC 811 or 812 Fieldwork
• an explanation of how the applicant’s interests are not met by a regularly offered master’s program

In addition to other criteria considered for admission, the director of graduate programs or designate will adjudicate the plan of study and research regarding availability of resources to support it and whether it can be completed in reasonable time.

Program Requirements
This program consists of 30 units of course work and a project for a minimum of 35 units.

EDUC 881 - Project (5)

The individual program’s plan must be developed with, and approved by, a faculty sponsor who automatically becomes the senior supervisor of the master’s project. A second person suitably qualified in relation to the project joins the supervisory committee normally before the completion of the fourth course.

The project materially and substantially relates theory to practice, or systematically examines a significant problem in education.

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Faculty of Education
Simon Fraser University Calendar | Summer 2017

Educational Leadership

GRADUATE CERTIFICATE

The graduate certificate in educational leadership is a professional credential signifying knowledge and ability in the management and administration of educational organizations.

This program is intended for current and prospective leaders in educational settings such as schools, colleges, and institutes for professional and vocational training. While the program is grounded both in research and in practice, it has a strong philosophical and conceptual orientation that prepares students to understand complex issues and problems in the workplace.

The certificate program requires 18 units of course work. As per graduate general regulation 1.7.6, students who successfully complete the certificate and are subsequently accepted into the Master of Education (MEd) in Educational Leadership program may apply 15 units from the certificate program toward completion of the MEd program.

For further information, contact Graduate Programs within the Faculty of Education at 778.782.5951 or cpmed@sfu.ca.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific credential and to a particular program or specialization. Updated application information is available from the Faculty of Education.

Program Requirements

Students complete a total of 18 units, including three of

EDUC 813 - Organizational Theory and Analyses (5)
EDUC 817 - Policy Processes (5)
EDUC 818 - Leadership Studies (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 864 - Research Designs in Education (5)

and
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.
REVISED
CALENDAR ENTRY

Educational Leadership
GRADUATE CERTIFICATE

Description of Program
The graduate certificate in educational leadership is a professional credential signifying knowledge and ability in the management and administration of educational organizations. This program is intended for current and prospective leaders in educational settings such as schools, colleges, and institutes for professional and vocational training. While the program is grounded both in research and in practice, it has a strong philosophical and conceptual orientation that prepares students to understand complex issues and problems in the workplace.

As per graduate general regulation 1.7.6, students who successfully complete the certificate and are subsequently accepted into the Master of Education (MEd) in Educational Leadership program may apply 15 units from the certificate program toward completion of the MEd program.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific credential and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses for a minimum of 18 units.

Students must complete three of
EDUC 813 - Organizational Theory and Analyses (5)
EDUC 817 - Policy Processes (5)
EDUC 818 - Leadership Studies (5)
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 864 - Research Designs in Education (5)

and
EDUC 714 - Special Topics (3)

Program Length
Students are expected to complete the program requirements within 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Educational Leadership

MASTER OF ARTS

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student’s field of specialization and competence in conducting significant and original research in education. Graduate programs leading to this degree culminates with a master’s thesis (EDUC 898).

This program is intended for current or prospective leaders who are engaged in educational activities in a variety of societal workplaces (e.g. schools, colleges, community agencies, health agencies, justice agencies, arts agencies). While the program is grounded both in research and in practice, it has a strong philosophical and conceptual orientation that encourages students to view issues and problems in the workplace in more complex and educative ways.

This program requires a minimum of 25 units of course work and a thesis (EDUC 898-10).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information is available from the Faculty of Education.

Program Requirements

Students complete all of

EDUC 813 - Organizational Theory and Analyses (5)
EDUC 817 - Policy Processes (5)
EDUC 818 - Leadership Studies (5)
EDUC 864 - Research Designs in Education (5)
EDUC 904 - Fieldwork III (5)

Students will be required to demonstrate appropriate research competence that may necessitate completing

EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 866 - Qualitative Methods in Educational Research (5)
Students may also complete additional elective courses, as required or approved by the senior supervisor.

**Thesis**

Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing:

EDUC 898 - Master's Thesis (10)

The master's thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

**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.
Educational Leadership

MASTER OF ARTS

Description of Program
The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student’s field of specialization and competence in conducting significant and original research in education. This program is intended for current or prospective leaders who are engaged in educational activities in a variety of societal workplaces (e.g. schools, colleges, community agencies, health agencies, justice agencies, arts agencies). While the program is grounded both in research and in practice, it has a strong philosophical and conceptual orientation that encourages students to view issues and problems in the workplace in more complex and educative ways.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a thesis for a minimum of 35 units. Students may also complete additional elective courses, as required or approved by the senior supervisor.

Students must complete
EDUC 813 - Organizational Theory and Analyses (5)
EDUC 817 - Policy Processes (5)
EDUC 818 - Leadership Studies (5)
EDUC 864 - Research Designs in Education (5)
EDUC 904 - Fieldwork III (5)

and a thesis
EDUC 898 - Master's Thesis (10)

Students will be required to demonstrate appropriate research competence that may necessitate also completing:
EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 866 - Qualitative Methods in Educational Research (5)

Thesis
Normally before the fifth course, a master’s thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member, chosen in consultation with the senior supervisor, constitute the supervisory committee. The master’s thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.
Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Simon Fraser University Calendar | Summer 2017

Educational Leadership

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

This program is intended for current and prospective leaders who are engaged in educational activities in a variety of societal workplaces (e.g. schools, colleges, community agencies, health agencies, justice agencies, art agencies). While the program is grounded both in research and in practice, it has a strong philosophical and conceptual orientation that encourages students to view issues and problems in the workplace in more complex and educative ways.

The program requires 30 units of course work and a comprehensive examination (EDUC 883-5).

For further information, contact Graduate Programs within the Faculty of Education at 778.782.5951 or cpmed@sfu.ca

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information is available at http://www.sfu.ca/education/gs/degrediploma.html.

Program Requirements

Students complete a total of 30 units, including all of

EDUC 813 - Organizational Theory and Analyses (5)
EDUC 817 - Policy Processes (5)
EDUC 818 - Leadership Studies (5)
EDUC 904 - Fieldwork III (5)

and one of

EDUC 822 - Evaluation of Educational Programs (5)
EDUC 864 - Research Designs in Education (5)
and one additional course (five units) approved by the student's senior supervisor.

After successful completion of three courses, students admitted to the MEd program may, on the senior supervisor's recommendation, and with the approval of the graduate director, transfer to the MA program.

**Comprehensive Examination**

Candidates complete a comprehensive examination by enrolling in

**EDUC 883 - MEd Comprehensive Examination (5)**

Normally, this occurs in the term in which course requirements are completed or in the term immediately following.

**Community Graduate Programs – Two Year Option**

This program is also offered as a two year program that is often situated in communities throughout the province of British Columbia. It caters to practicing educators who wish to improve their abilities to critically read, evaluate and integrate educational theory and research. The program’s focus will be on a theme that integrates scholarly inquiry with focal interests and professional practice needs.

Classes are normally scheduled every second weekend at the program location.

School districts, educational institutions, groups and individuals interested in an MEd community graduate program should contact the office at 778.782.5897 or visit http://www.sfu.ca/education/gs/explore/programdevelopment.html

**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.
Educational Leadership

MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. This program is intended for current and prospective leaders who are engaged in educational activities in a variety of societal workplaces (e.g. schools, colleges, community agencies, health agencies, justice agencies, art agencies). While the program is grounded both in research and in practice, it has a strong philosophical and conceptual orientation that encourages students to view issues and problems in the workplace in more complex and educative ways.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 35 units. After successful completion of three courses, students admitted to the MEd program may, on the senior supervisor's recommendation, and with the approval of the graduate director, transfer to the MA program.

Students must complete
EDUC 813 - Organizational Theory and Analyses (5)
EDUC 817 - Policy Processes (5)
EDUC 818 - Leadership Studies (5)
EDUC 904 - Fieldwork III (5)

and one of
EDUC 822 - Evaluation of Educational Programs (5)
EDUC 864 - Research Designs in Education (5)

and one additional course (five units) approved by the student's senior supervisor

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

The comprehensive examination normally occurs in the term in which course requirements are completed or in the term immediately following.

Community Graduate Program – two year option
REVISED
CALENDAR ENTRY

This program is also offered as a two year program that is often situated in communities throughout the provinces of British Columbia and Alberta. It caters to practicing educators who wish to improve their abilities to critically read, evaluate and integrate educational theory and research. The program's focus will be on a theme that integrates scholarly inquiry with focal interests and professional practice needs.

Classes normally are scheduled every second weekend at the program location.

Program Length
Students are expected to complete the program requirements within six 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.
Educational Practice

MASTER OF EDUCATION

The master of education in educational practice (MEd) is a professional degree that is available on completion of the two-year graduate diploma in advanced professional studies in education.

Students wishing to engage in this third year of study may seek admission to the program after successful completion of the graduate diploma in education. Students normally progress through this one-year program as a cohort. This program requires 30 units of 500 division EDPR courses, 15 core graduate units, and a comprehensive exam.

For further information, contact Field Programs at 778-782-5356 Tel, 778-782-5882 Fax, edprgpd@sfu.ca.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. For additional requirements and application information, see the Field Programs website at http://www.educ.sfu.ca/gs/field-programs/edpracticemedfp.html

Applications are reviewed twice a year. Completed applications must be received by February 1 for summer admission and May 1 for fall admission.

Supervision

A supervisor is appointed by the director of field programs upon admission to the program. The supervisory committee is comprised of members of the instructional team for the cohort.

Program Requirements

Students complete a total of 20 units, including all of

EDUC 807 - The Foundations of Action Research (5)
EDUC 811 - Fieldwork I (5)
EDUC 866 - Qualitative Methods in Educational Research (5)
EDUC 883 - MEd Comprehensive Examination (5)
Comprehensive Examinations

All MEd candidates must complete a comprehensive examination by enrolling in EDUC 883. Normally, this occurs in the term in which course requirements are completed.

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.
REVISED
CALENDAR ENTRY

Educational Practice
MASTER OF EDUCATION

Description of Program
The master of education in educational practice (MEd) is a professional degree that is available on completion of the two-year graduate diploma in advanced professional studies in education. Students wishing to engage in this third year of study may seek admission to the program after successful completion of the graduate diploma in education.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. For additional requirements and application information, see the Field Programs website at http://www.educ.sfu.ca/gs/field-programs/edpracticemedfp.html

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 50 units.

Students must complete
EDUC 807 - The Foundations of Action Research (5)
EDUC 811 - Fieldwork I (5)
EDUC 866 - Qualitative Methods in Educational Research (5)

and 30 units of 500 division EDPR courses

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

The comprehensive examination normally occurs in the term in which course requirements are completed.

Program Length
Students are expected to complete the program requirements within three terms. Students normally progress through this one-year program as a cohort.

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 Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Faculty of Education
Simon Fraser University Calendar | Summer 2017

Educational Psychology

MASTER OF ARTS

Through studies of theories, allied empirical research, methods of inquiry and professional practice, the program provides a foundation of knowledge across fundamental areas of educational psychology.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete all of the following required courses:

EDUC 805 - Social Development in the School Context (3)
EDUC 810 - Methods of Inquiry in Educational Psychology (3)
EDUC 826 - The Neurobiology of Language and Reading Development (3)
EDUC 828 - Instructional Practices for Inclusive Classrooms (3)
EDUC 829 - Contemporary Issues in Learning Disabilities (3)
EDUC 842 - Sociocultural Perspectives on the Psychology of Development and Education (3)
EDUC 860 - Contemporary Theory and Research in Educational Psychology (3)
EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 876 - Cognitive Intervention Research (3)
EDUC 970 - Systems and Paradigms in Educational Psychology (3)

In addition to the required courses above, MA students complete

EDUC 898 - Master’s Thesis (10)

Transfer Credit
Students may apply for transfer credit if graduate course work completed at another institution duplicates courses in this 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.
REVISED
CALENDAR ENTRY

Educational Psychology
MASTER OF ARTS

Description of Program
Through studies of theories, allied empirical research, methods of inquiry and professional practice, the program provides a foundation of knowledge across fundamental areas of educational psychology.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

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

Students must complete
EDUC 810 - Methods of Inquiry in Educational Psychology (3)
EDUC 841 - Seminar in Educational Psychology (3)

and one of
EDUC 860 - The Learning Sciences and Education (3)
EDUC 970 - Systems and Paradigms in Educational Psychology (3)

and one of
EDUC 805 - Social Development in the School Context (3)
EDUC 842 - Sociocultural Perspectives on the Psychology of Development and Education (3)

and one of
EDUC 760 - Academic and Social Behaviour Assessment in Education (3)
EDUC 829 - Contemporary Issues in Learning and Developmental Disorders (3)

and a thesis
EDUC 886 - MA Thesis (15)

Program Length
Students are expected to complete the program requirements within nine 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.
Educational Psychology

MASTER OF EDUCATION

Through studies of theories, allied empirical research, methods of inquiry and professional practice, the program provides a foundation of knowledge across fundamental areas of educational psychology.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete all of the following required courses:

- EDUC 805 - Social Development in the School Context (3)
- EDUC 810 - Methods of Inquiry in Educational Psychology (3)
- EDUC 826 - The Neurobiology of Language and Reading Development (3)
- EDUC 828 - Instructional Practices for Inclusive Classrooms (3)
- EDUC 829 - Contemporary Issues in Learning Disabilities (3)
- EDUC 842 - Socio-cultural Perspectives on the Psychology of Development and Education (3)
- EDUC 860 - Contemporary Theory and Research in Educational Psychology (3)
- EDUC 863 - Quantitative Methods in Educational Research (3)
- EDUC 876 - Cognitive Intervention Research (3)
- EDUC 970 - Systems and Paradigms in Educational Psychology (3)

In addition to the required courses above, MEd students complete

- five units of elective courses that have been approved by the senior supervisor

- EDUC 883 - MEd Comprehensive Examination (5)
Transfer Credit

Students may apply for transfer credit if graduate course work completed at another institution duplicates courses in this 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.
REVISED
CALENDAR ENTRY

Educational Psychology
MASTER OF EDUCATION

Description of Program
Through studies of theories, allied empirical research, methods of inquiry and professional practice, the program provides a foundation of knowledge across fundamental areas of educational psychology.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and two extended essays for a minimum of 30 units.

Students must complete
EDUC 810 - Methods of Inquiry in Educational Psychology (3)
EDUC 841 - Seminar in Educational Psychology (3)

and one of
EDUC 860 - The Learning Sciences and Education (3)
EDUC 970 - Systems and Paradigms in Educational Psychology (3)

and one of
EDUC 805 - Social Development in the School Context (3)
EDUC 842 - Sociocultural Perspectives on the Psychology of Development and Education (3)

and one of
EDUC 760 - Academic and Social Behaviour Assessment in Education (3)
EDUC 829 - Contemporary Issues in Learning and Developmental Disorders (3)

and nine units of elective graduate EDUC courses that have been approved by the senior supervisor

and two extended essays examined by two readers
EDUC 885 - MEd Extended Essays (6)

Program Length
Students are expected to complete the program requirements within six 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.
Please note:

To view the current calendar, go to www.sfu.ca/calendar

Simon Fraser University Calendar | Spring 2016

Educational Psychology

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. In this program, students develop specialized knowledge and skills through advanced study in educational psychology.

Students admitted to the program must have completed academic studies that equate to, or significantly parallel, courses in the master of arts (MA) program in educational psychology. Where gaps exist, an individual program of studies will be developed that includes courses from the master's program as well as other appropriate academic experiences (e.g., directed readings courses).

If EDUC 975 was taken in the MA program, PhD students are not required to retake the course.

This program does not prepare students for registration with the BC College of Psychologists unless students meet significant additional requirements outside the scope of this program.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available from the Faculty of Education.

Program Requirements

Students are required to complete

EDUC 971 - Advanced Topics in Educational Psychology (4)
EDUC 975 - Advanced Quantitative Methods in Educational Research (4)

Twelve units of additional course work chosen with the approval of the senior supervisor

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in
Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following.

**Thesis**

A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

**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, as listed above.
Educational Psychology

DOCTOR OF PHILOSOPHY

Description of Program

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. In this program, students develop specialized knowledge and skills through advanced study in educational psychology. This program does not prepare students for registration with the BC College of Psychologists unless students meet significant additional requirements outside the scope of this program.

Admission Requirements

Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Students admitted to the program must have completed academic studies that equate to, or significantly parallel, courses in the master of arts (MA) program in educational psychology. Where gaps exist, an individual program of studies will be developed that includes courses from the master’s program as well as other appropriate academic experiences (e.g., directed readings courses).

Program Requirements

This program consists of courses, a comprehensive examination and a thesis for a minimum of 40 units. If EDUC 975 was taken in the MA program, PhD students are not required to retake the course.

Students must complete
EDUC 971 - Advanced Topics in Educational Psychology (4)
EDUC 975 - Advanced Quantitative Methods in Educational Research (4)

and 12 units of additional course work chosen with the approval of the senior supervisor

and a comprehensive examination
EDUC 983 - Doctoral Comprehensive Examination (5)

and a thesis
EDUC 899 - Doctoral Thesis (15)

The comprehensive examination is normally completed in the term in which course requirements are completed, or the term immediately following. A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee.

Program Length

Students are expected to complete the program requirements within 18 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.
Educational Technology and Learning Design

MASTER OF ARTS

The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student's field of specialization and competence in conducting significant and original research in education. Graduate programs leading to this degree culminates with a master's thesis (EDUC 898).

The program takes a scholarly approach to learning technologies design, plans for its uses, and/or evaluation of technology based learning innovations. Designed to accommodate students who work full time during the day or who take a leave to study full time, the program supports diverse cohorts including K-12 teachers, college instructors, instructional designers, and aspiring academics. Applicants from a wide variety of educational and technical backgrounds are welcome.

The program requires a minimum of 28 units of course work and a thesis (EDUC 898-10).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Conditional Admission

Depending upon completed academic course work, students may be admitted conditionally upon completing Faculty of Education prerequisite courses.

Program Requirements

Students complete all of

EDUC 864 - Research Designs in Education (5)
EDUC 890 - Educational Media as Foundations of Curriculum (4)
EDUC 891 - Learning Design in Technology-Mediated Environments (4)
EDUC 892 - Cognitive Tools and Multimedia Learning (4)
EDUC 893 - Organizational and Social Aspects of Learning Technology Design (4)

and one of

EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 866 - Qualitative Methods in Educational Research (5)

and one elective course

Thesis

Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing:

EDUC 898 - Master's Thesis (10)

The master's thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

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.
Educational Technology and Learning Design
MASTER OF ARTS

Description of Program
The master of arts (MA) degree signifies the acquisition of advanced knowledge in the student’s field of specialization and competence in conducting significant and original research in education. This program takes a scholarly approach to learning technologies design, plans for its uses, and/or evaluation of technology based learning innovations. Designed to accommodate students who work full time during the day or who take a leave to study full time, the program supports diverse cohorts including K-12 teachers, college instructors, instructional designers, and aspiring academics. Applicants from a wide variety of educational and technical backgrounds are welcome.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education. Depending upon completed academic course work, students may be admitted conditionally upon completing Faculty of Education prerequisite courses.

Program Requirements
This program consists of courses and a thesis for a minimum of 34 units.

Students must complete
EDUC 864 - Research Designs in Education (5)
EDUC 890 - Educational Media as Foundations of Curriculum (4)
EDUC 891 - Learning Design in Technology-Mediated Environments (4)
EDUC 892 - Cognitive Tools and Multimedia Learning (4)
EDUC 893 - Organizational and Social Aspects of Learning Technology Design (4)

and one of
EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 866 - Qualitative Methods in Educational Research (5)

and a thesis
EDUC 898 - Master's Thesis (10)

Thesis
Normally, before the fifth course, a master’s thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee. The master’s thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Education
Simon Fraser University Calendar | Summer 2017

Educational Technology and Learning Design

DOCTOR OF PHILOSOPHY

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program develops highly qualified educational technology researchers and designers in academia, research and development labs, corporations, school boards or other settings. The program is organized in close conjunction with the master in educational technology and learning design program.

This program requires successful completion of a minimum of 20 units of course work culminating in a comprehensive examination and a doctoral thesis.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available at the Faculty of Education.

Admitted students satisfy all requirements for the master in educational technology and learning design. Applicants are welcomed from a variety of educational and technical backgrounds, although they may be required to complete courses from the master of arts (MA) program before beginning course work on the PhD.

Program Requirements

Students complete all of

EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 866 - Qualitative Methods in Educational Research (5)
EDUC 931 - Doctoral Seminar I in Educational Technology and Learning Design (4)
EDUC 932 - Doctoral Seminar II in Educational Technology and Learning Design (4)

and one of

EDUC 867 - Advanced Qualitative Research in Education (5) *
EDUC 975 - Advanced Quantitative Methods in Educational Research (4) *

The supervisory committee may require further work in the Faculty of Education or other faculties. Students are encouraged to complete additional courses from related units outside of the Faculty of Education.

In addition to the course requirements listed above, students must also participate in the Educational Technology Program Institute each term.

* prerequisites must also be satisfied, either prior to admission or during enrolment (see EDUC courses for prerequisites)

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in EDUC 983 - Doctoral Comprehensive Examination (5)

Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following.

Thesis

A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

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.
Educational Technology and Learning Design
DOCTOR OF PHILOSOPHY

Description of Program
Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program develops highly qualified educational technology researchers and designers in academia, research and development labs, corporations, school boards or other settings. The program is organized in close conjunction with the master in educational technology and learning design program.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Admitted students satisfy all requirements for the master in educational technology and learning design. Applicants are welcomed from a variety of educational and technical backgrounds, although they may be required to complete courses from the master of arts (MA) program before beginning course work on the PhD.

Program Requirements
This program consists of courses, a comprehensive examination and a thesis for a minimum of 40 units. The supervisory committee may require further work in the Faculty of Education or other faculties. Students are encouraged to complete additional courses from related units outside of the Faculty of Education. In addition to the course requirements listed below, students must also participate in the Educational Technology Program Institute each term.

Students must complete
EDUC 863 - Quantitative Methods in Educational Research (3)
EDUC 866 - Qualitative Methods in Educational Research (5)
EDUC 931 - Doctoral Seminar I in Educational Technology and Learning Design (4)
EDUC 932 - Doctoral Seminar II in Educational Technology and Learning Design (4)

and one of
EDUC 867 - Advanced Qualitative Research in Education (5) *
EDUC 975 - Advanced Quantitative Methods in Educational Research (4) *

and a comprehensive examination
EDUC 983 - Doctoral Comprehensive Examination (5)

and a thesis
EDUC 899 - Doctoral Thesis (15)
The comprehensive examination is normally completed in the term in which course requirements are completed, or the term immediately following. A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee.

* The prerequisites must also be satisfied, either prior to admission or during enrolment (see EDUC courses for prerequisites).

**Program Length**

Students are expected to complete the program requirements within 18 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

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Curriculum Theory and Implementation

DOCTOR OF PHILOSOPHY

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research.

This program requires successful completion of a minimum of 20 units of course work and culminates in a comprehensive examination and a doctoral thesis.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available from the Faculty of Education.

Program Requirements

Students complete all of

EDUC 901 - Seminar in the History of Educational Theory (5)
EDUC 902 - Interdisciplinary Seminar in Contemporary Educational Theory (5)
EDUC 911 - Colloquium in Curriculum Theory (I) (5)
EDUC 912 - Colloquium in Curriculum Theory (II) (5)

The supervisory committee may require further work in the Faculty of Education or other faculties. Students are encouraged to complete additional courses from related departments outside the Faculty of Education.
Philosophy of Education Stream

This program stream focuses on three interconnecting themes of ecology, culture and consciousness, and brings relevant philosophical traditions, theories, innovations, and methods to work with these themes.

Students complete all of

EDUC 901 - Seminar in the History of Educational Theory (5)
EDUC 902 - Interdisciplinary Seminar in Contemporary Educational Theory (5)
EDUC 921 - Seminar in Philosophy and Educational Theory (5)
EDUC 922 - Advanced Seminar in Epistemology and Education (5)

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in

EDUC 983 - Doctoral Comprehensive Examination (5)

Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following.

Thesis

A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

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.
Educational Theory and Practice
DOCTOR OF PHILOSOPHY

Description of Program
Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program and, if applicable, specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses, a qualifying examination and a thesis for a minimum of 36 units.

Students must complete a minimum of 18 units of graduate course work*

and a qualifying examination
EDUC 984 - Qualifying Examination (3)

and a thesis
EDUC 899 - Doctoral Thesis (15)

The Qualifying Examination is completed following submission of the research plan and completion of course work. A major part of this program is original research. A thesis describing this is submitted and defended. Upon entry to the program, and every term, students enroll in EDUC 899.

*Students may complete one of two optional streams. In lieu of elective course work, students must complete the listed required courses. The supervisory committee may require further course work in the Faculty of Education or other faculties. Students are encouraged to complete additional courses from other programs in Education and/or related departments outside the Faculty of Education.

Curriculum and Pedagogy Stream
Students complete all of the following required courses
EDUC 901A - Seminar in the History of Educational Theory A (3)
EDUC 901B - Seminar in the History of Educational Theory B (3)
EDUC 902A - Interdisciplinary Seminar in Contemporary Educational Theory A (3)
EDUC 902B - Interdisciplinary Seminar in Contemporary Educational Theory B (3)
EDUC 911 - Colloquium in Curriculum Theory (I) (3)
EDUC 912 - Colloquium in Curriculum Theory (II) (3)

Philosophy of Education Stream
This program stream focuses on three interconnecting themes of ecology, culture and consciousness, and brings relevant philosophical and wisdom traditions, theories, innovations, and methods to work with these themes.

Students complete all of the following required courses:
EDUC 901A - Seminar in the History of Educational Theory A (3)
EDUC 901B - Seminar in the History of Educational Theory B (3)
EDUC 902A - Interdisciplinary Seminar in Contemporary Educational Theory A (3)
EDUC 902B - Interdisciplinary Seminar in Contemporary Educational Theory B (3)
EDUC 921 - Seminar in Philosophy and Educational Theory (3)
EDUC 922 - Advanced Seminar in Epistemology and Education (3)

Program Length
Students are expected to complete the program requirements within 18 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Imaginative Education

GRADUATE CERTIFICATE

The graduate certificate in imaginative education is a professional credential signifying knowledge and ability in educational practice. This program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices in relation to research and theory. The program requires 15 units of course work. For further information, contact Graduate Programs within the Faculty of Education at 778.782.5951.

Admission Requirements

See graduate general regulations for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated. Admission is granted to a specific credential and to a particular program or specialization. Updated application information is available from the Faculty of Education.

Program Requirements

Students complete a total of 15 units, including all of

EDUC 725 - Engaging Students' Imaginations K-Post Secondary: Introducing Cognitive Tools (3)
EDUC 726 - Engaging Students' Imaginations K-Post Sec: Deepening Understanding and Applying IE to Subject Areas (3)
EDUC 728 - Assessing & Evaluating Imaginative Education (IE): Theoretical and Practical Issues (3)
EDUC 729 - Field Study in Imaginative Education (IE): Introduction to Action Research (3)
EDUC 730 - Field Study in Imaginative Education (IE): Conducting Action Research (3)

Students are also required to complete a short Orientation to On-Line Learning and Graduate Studies course at the start of the program. (0 Credits)
Imaginative Education

GRADUATE CERTIFICATE

Description of Program
The graduate certificate in imaginative education is a professional credential signifying knowledge and ability in educational practice. This program is for educators who wish to critically examine current educational theory, research and practice. Participants are encouraged to examine their own instructional practices in relation to research and theory.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific credential and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses for a minimum of 15 units.

Students must complete
EDUC 725 - Engaging Students' Imaginations K-Post Secondary: Introducing Cognitive Tools (3)
EDUC 726 - Engaging Students' Imaginations K-Post Sec: Deepening Understanding and Applying IE to Subject Areas (3)
EDUC 728 - Assessing & Evaluating Imaginative Education (IE): Theoretical and Practical Issues (3)
EDUC 729 - Field Study in Imaginative Education (IE): Introduction to Action Research (3)
EDUC 730 - Field Study in Imaginative Education (IE): Conducting Action Research (3)

Students are also required to complete a short Orientation to On-Line Learning and Graduate Studies course (0 units) at the start of the program.

Program Length
Students are expected to complete the program requirements within 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Languages, Cultures and Literacies

DOCTOR OF PHILOSOPHY

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program offers educators and researchers the opportunity to focus on the cultural and linguistic diversity that characterizes contemporary classrooms. The program provides opportunities for students to participate in ongoing research and ultimately to conduct their own research regarding how diversity might be recognized, strengthened and taken as a resource in public education. Courses offer a range of opportunities to question meanings and practices of social difference including those based on race, gender, language, class, and sexuality.

This program requires successful completion of a minimum of 18 units of course work plus a comprehensive examination and a doctoral thesis.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated. In some cases, students may be required to take an additional methodology course as part of the conditions of their admission.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available from the Faculty of Education.

Program Requirements

In year one, students complete all of:

EDUC 923 - Critical and Sociocultural Approaches to Educational Research (3)
EDUC 924 - Multilingualism, Globalization, and Identities (3)
EDUC 925 - Multiliteracies and Multimodalities (3)
EDUC 926 - Ethnographic and Multimodal Approaches to Educational Research (3)
EDUC 927 - Doctoral Seminar A (3) or EDUC 928 - Doctoral Seminar B (3)

Students in their second year will be expected to enroll in EDUC 927 or EDUC 928, whichever was not completed in Year 1.
Students are welcome to complete other courses in the Faculty of Education and throughout the University, in consultation with their senior supervisor.

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in

EDUC 983 - Doctoral Comprehensive Examination (5)

Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following. The comprehensive examination is completed as a written and oral examination submitted to the committee. Questions for the comprehensive examination will be posted at the beginning of the students’ program.

Thesis

A major part of this program is original research. A thesis describing this is submitted and defended. Upon entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

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.
Languages, Cultures and Literacies
DOCTOR OF PHILOSOPHY

Description of Program
Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program offers educators and researchers the opportunity to focus on the cultural and linguistic diversity that characterizes contemporary classrooms. The program provides opportunities for students to participate in ongoing research and ultimately to conduct their own research regarding how diversity might be recognized, strengthened and taken as a resource in public education. Courses offer a range of opportunities to question meanings and practices of social difference including those based on race, gender, language, class, and sexuality.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated. In some cases, students may be required to take an additional methodology course as part of the conditions of their admission.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses, a comprehensive examination and a thesis for a minimum of 38 units. Students are welcome to complete other courses in the Faculty of Education and throughout the University, in consultation with their senior supervisor.

Students must complete
EDUC 923 - Critical and Sociocultural Approaches to Educational Research (3)
EDUC 924 - Multilingualism, Globalization, and Identities (3)
EDUC 925 - Multiliteracies and Multimodalities (3)
EDUC 926 - Ethnographic and Multimodal Approaches to Educational Research (3)
EDUC 927 - Doctoral Seminar A (3)*
EDUC 928 - Doctoral Seminar B (3)*

and a comprehensive examination
EDUC 983 - Doctoral Comprehensive Examination (5)

and a thesis
EDUC 899 - Doctoral Thesis (15)

The comprehensive examination is normally completed in the term in which course requirements are completed, or the term immediately following. The comprehensive examination is completed as a written and oral examination submitted to the committee. Questions for the comprehensive examination will be posted at the beginning of the students' program. A major part of this program is original research. A thesis describing this is submitted and defended.
* Students in their second year will be expected to enroll in EDUC 927 or EDUC 928, whichever was not completed in Year 1.

Program Length
Students are expected to complete the program requirements within 18 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.
Please note:
To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

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Mathematics Education

Doctor of Philosophy

Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program is for those interested in becoming scholars and leaders in mathematics education. Prior knowledge of mathematics and issues related to teaching and learning mathematics is required.

This program requires successful completion of a minimum of 20 units of course work culminating in a comprehensive examination and a doctoral thesis.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Updated application information and application deadlines are available from the Faculty of Education.

Program Requirements

Students complete all of

EDUC 905 - Fieldwork IV (5)
EDUC 941 - Mathematical Learning and Thinking: Historical, Philosophical, and Psychological Dimensions (5)
EDUC 942 - Contemporary Theories and Methodologies in Mathematics Education (5)
EDUC 946 - Doctoral Seminar in Mathematics Education (5)

Comprehensive Examination

All candidates also complete a comprehensive examination by enrolling in

EDUC 983 - Doctoral Comprehensive Examination (5)
Normally, the comprehensive examination is completed in the term in which course requirements are completed, or the term immediately following.

**Thesis**

A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee. Upon entry to the program, every term, students enrol in:

EDUC 899 - Doctoral Thesis (10)

**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.
Mathematics Education

DOCTOR OF PHILOSOPHY

Description of Program
Doctor of philosophy (PhD) degrees signify the acquisition of advanced knowledge in a field of specialization and advanced competence in conducting significant and original education research. This program is for those interested in becoming scholars and leaders in mathematics education. Prior knowledge of mathematics and issues related to teaching and learning mathematics is required.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses, a comprehensive examination and a thesis for a minimum of 40 units.

Students must complete
EDUC 905 - Fieldwork IV (5)
EDUC 941 - Mathematical Learning and Thinking: Historical, Philosophical, and Psychological Dimensions (5)
EDUC 942 - Contemporary Theories and Methodologies in Mathematics Education (5)
EDUC 946 - Doctoral Seminar in Mathematics Education (5)

and a comprehensive examination
EDUC 983 - Doctoral Comprehensive Examination (5)

and a thesis
EDUC 899 - Doctoral Thesis (15)

The comprehensive examination is normally completed in the term in which course requirements are completed, or the term immediately following. A major part of this program is original research. A thesis describing this is submitted and defended. Normally, before the fourth course, a thesis research plan is presented to the supervisory committee.

Program Length
Students are expected to complete the program requirements within 18 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Secondary Mathematics Education

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

This cohort program, leading to the MEd degree in the teaching of secondary school mathematics, is offered jointly by the Faculty of Education and the Department of Mathematics. Students pursuing the MEd (course work) option will, in addition to 28 units of required course work, complete a minimum of two units of graduate electives in education and/or mathematics, and a comprehensive examination.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete 30 units, including all of

EDUC 844 - Issues in Mathematics Education (5)
EDUC 845 - Learning Mathematics with Computers (5)
EDUC 846 - Foundations of Mathematics Education (5)
EDUC 847 - Teaching and Learning Mathematics (5)
MATH 603 - Foundations of Mathematics (4)
MATH 604 - Geometry (4)

and a minimum of two units selected from Faculty of Education or Department of Mathematics graduate courses.

Comprehensive Examination
Candidates must complete a comprehensive exam by enrolling in EDUC 883 - MEd Comprehensive Examination (5).

Normally, this occurs in the term in which course requirements are completed or in the immediately following term.

**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.
Secondary Mathematics Education
MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. This cohort program, leading to the MEd degree in the teaching of secondary school mathematics, is offered jointly by the Faculty of Education and the Department of Mathematics.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 35 units.

Students must complete
EDUC 844 - Issues in Mathematics Education (5)
EDUC 845 - Learning Mathematics with Computers (5)
EDUC 846 - Foundations of Mathematics Education (5)
EDUC 847 - Teaching and Learning Mathematics (5)
MATH 603 - Foundations of Mathematics (4)
MATH 604 - Geometry (4)

and a minimum of two graduate units selected from Faculty of Education or Department of Mathematics graduate courses

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

The comprehensive examination normally occurs in the term in which course requirements are completed or in the immediately following term.

Program Length
Students are expected to complete the program requirements within six 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.
Secondary Mathematics Education

MASTER OF SCIENCE

The master of science (MSc) degree signifies advanced knowledge in a field of specialization and advanced competence in conducting significant and original research in education.

This cohort program, leading to the MSc degree in the teaching of secondary school mathematics, is offered jointly by the Faculty of Education and the Department of Mathematics.

Minimum requirements are successful completion of 28 units of course work and EDUC 898-10 Master’s Thesis.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete 28 units, including all of

EDUC 844 - Issues in Mathematics Education (5)
EDUC 845 - Learning Mathematics with Computers (5)
EDUC 846 - Foundations of Mathematics Education (5)
EDUC 847 - Teaching and Learning Mathematics (5)
MATH 603 - Foundations of Mathematics (4)
MATH 604 - Geometry (4)

Thesis

Normally, before the fifth course, a master’s thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in
consultation with the senior supervisor constitutes the supervisory committee and the student proceeds to the thesis by completing:

EDUC 898 - Master's Thesis (10)

The master's thesis is examined as prescribed in graduate general regulations 1.9 and 1.10.

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.
Secondary Mathematics Education

MASTER OF SCIENCE

Description of Program
The master of science (MSc) degree signifies advanced knowledge in a field of specialization and advanced competence in conducting significant and original research in education. This cohort program, leading to the MSc degree in the teaching of secondary school mathematics, is offered jointly by the Faculty of Education and the Department of Mathematics.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a thesis for a minimum of 38 units.

Students must complete
EDUC 844 - Issues in Mathematics Education (5)
EDUC 845 - Learning Mathematics with Computers (5)
EDUC 846 - Foundations of Mathematics Education (5)
EDUC 847 - Teaching and Learning Mathematics (5)
MATH 603 - Foundations of Mathematics (4)
MATH 604 - Geometry (4)

and a thesis
EDUC 898 - Master's Thesis (10)

Thesis
Normally, before the fifth course, a master's thesis research plan is presented to the tenured or tenure track member of the faculty whom the student proposes to be senior supervisor. The senior supervisor and at least one other faculty member chosen in consultation with the senior supervisor constitutes the supervisory committee. The master's thesis is examined as prescribed in Graduate General Regulations 1.9 and 1.10.

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Education
Simon Fraser University Calendar | Summer 2017

TEAL - Teaching English as an Additional Language (TESL/TEFL)

MASTER OF ARTS

The Master of Arts (MA) program is designed for educators working with English as Additional Language learners in a variety of local and international educational settings. The program will provide students with advanced knowledge of theoretical, research and practical issues in teaching English language learners. Students will initially be admitted to the MEd course work/comprehensive examination program.

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. Normally, two years of full-time classroom teaching experience is required for admission to the program. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

This master of arts program consists of five required courses (25 units) plus a thesis.

Students complete all of

EDUC 824 - Seminar in Second Language Teaching (5)
EDUC 825 - Second Language Learning and Education (5)
EDUC 856 - Sociocultural Perspectives on Education and Identity (5)

and one of

EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 836 - Equity Issues in Language, Education, and Society (5)
EDUC 854 - Teachers as Agents of Change (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)

and one research methods course, to be decided in consultation with the senior supervisor

and

EDUC 898 - Master's Thesis (10)

Transfer from the MEd Program

After successful completion of three of the above courses, including at least two of EDUC 824, 825, 856, students who were admitted to the master of education program may, on the senior supervisor’s recommendation, in consultation with the instructional team and with the approval of the graduate programs director, transfer into the master of arts program.

For further information, visit http://www.sfu.ca/education/gs.html or telephone graduate programs at 778.782.3984, or email educmast@sfu.ca.
TEAL – Teaching English as an Additional Language  
(TESL/TEFL)  
MASTER OF ARTS

Description of Program
The master of arts (MA) program is designed for educators working with English as additional language learners in a variety of local and international educational settings. The program will provide students with advanced knowledge of theoretical, research and practical issues in teaching English language learners.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Normally, two years of full-time classroom teaching experience is required for admission to the program. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated. Students will initially be admitted to the MEd course work/comprehensive examination program.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Transfer from the MEd program
After successful completion of three of the courses below, including at least two of EDUC 824, 825, 856, students who were admitted to the master of education program may, on the senior supervisor’s recommendation, in consultation with the instructional team and with the approval of the graduate programs director, transfer into the master of arts program.

Program Requirements
This program consists of courses and a thesis for a minimum of 35 units.

Students must complete
EDUC 824 - Seminar in Second Language Teaching (5)
EDUC 825 - Second Language Learning and Education (5)
EDUC 856 - Sociocultural Perspectives on Education and Identity (5)

and one of
EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 836 - Equity Issues in Language, Education, and Society (5)
EDUC 854 - Teachers as Agents of Change (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)

and one research methods course for a minimum of five graduate units, to be decided in consultation with the senior supervisor.
and a thesis
EDUC 898 - Master's Thesis (10)

Program Length
Students are expected to complete the program requirements within nine 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.
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Education
Simon Fraser University Calendar | Summer 2017

TEAL - Teaching English as an Additional Language (TESL/TEFL)

MASTER OF EDUCATION

The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice.

This program is designed for educators working with English as Additional Language learners in a variety of local and international educational settings. The program will provide students with advanced knowledge of theoretical, research and practical issues in teaching English language learners.

The MEd consists of 30 units of course work followed by the MEd comprehensive examination (EDUC 883-5).

Admission Requirements

See graduate general regulation 1.3 for University admission requirements. Normally, two years of full-time classroom teaching experience is required for admission to the program. This requirement is waived for admission to the TEAL-F stream. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Graduate education admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements

Students complete all of

EDUC 824 - Seminar in Second Language Teaching (5)
EDUC 825 - Second Language Learning and Education (5)
EDUC 856 - Sociocultural Perspectives on Education and Identity (5)

Student will complete three courses from the list of electives below

EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 836 - Equity Issues in Language, Education, and Society (5)
EDUC 854 - Teachers as Agents of Change (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)

Comprehensive Examination

Candidates must complete a comprehensive examination by enrolling in EDUC 883-5. Normally, this occurs in the term in which course requirements are completed or in the immediately following term.

Program Requirements- TEAL with a Fieldwork Component (TEAL-F) Stream

This full-time, 17-month M.Ed. program is designed for prospective English language teachers. It is distinctive in offering a fieldwork component to introduce TEAL-F students to Canadian educational settings, and in offering cohort-specific cultural and academic literacy support.

Students complete all of

EDUC 811 - Fieldwork I (5)
EDUC 824 - Seminar in Second Language Teaching (5)
EDUC 825 - Second Language Learning and Education (5)
EDUC 835 - Graduate Study in Second Language Education (5)
EDUC 856 - Sociocultural Perspectives on Education and Identity (5)
EDUC 905 - Fieldwork IV (5)

Students in the TEAL-F stream are strongly encouraged to take one or more electives from the list of TEAL elective courses.

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.
TEAL – Teaching English as an Additional Language
(TESL/TEFL)

MASTER OF EDUCATION

Description of Program
The master of education (MEd) is a professional degree signifying advanced knowledge about and advanced training in educational practice. This program is designed for educators working with English as Additional Language learners in a variety of local and international educational settings. The program will provide students with advanced knowledge of theoretical, research and practical issues in teaching English language learners.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Normally, two years of full-time classroom teaching experience is required for admission to the program. This requirement is waived for admission to the TEAL-F stream. In exceptional circumstances, applicants who do not meet these requirements may be considered if superior scholarly or professional achievement is demonstrated.

Admission is granted to a specific degree and to a particular program or specialization. Application information is available from the Faculty of Education.

Program Requirements
This program consists of courses and a comprehensive examination for a minimum of 35 units.

Students must complete
EDUC 824 - Seminar in Second Language Teaching (5)
EDUC 825 - Second Language Learning and Education (5)
EDUC 856 - Sociocultural Perspectives on Education and Identity (5)

and three of
EDUC 816 - Developing Educational Programs and Practices for Diverse Educational Settings (5)
EDUC 820 - Current Issues in Curriculum and Pedagogy (5)
EDUC 823 - Curriculum and Instruction in an Individual Teaching Speciality (5)
EDUC 830 - Implementation of Educational Programs (5)
EDUC 833 - Social and Moral Philosophy in Education (5)
EDUC 836 - Equity Issues in Language, Education, and Society (5)
EDUC 854 - Teachers as Agents of Change (5)
EDUC 855 - Multicultural and Race Relations Education: Policy Development and Program Implementation (5)

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

Normally, this occurs in the term in which course requirements are completed or in the immediately following term.
REVISED
CALENDAR ENTRY

Program Length
Students are expected to complete the program requirements within six terms.

TEAL with a fieldwork component (TEAL-F) stream
This full-time 17-month MEd program is designed for prospective English language teachers. It is distinctive in offering a fieldwork component to introduce TEAL-F students to Canadian educational settings, and in offering cohort-specific cultural and academic literacy support.

Students must complete*
EDUC 811 - Fieldwork I (5)
EDUC 824 - Seminar in Second Language Teaching (5)
EDUC 825 - Second Language Learning and Education (5)
EDUC 835 - Graduate Study in Second Language Education (5)
EDUC 856 - Sociocultural Perspectives on Education and Identity (5)
EDUC 905 - Fieldwork IV (5)

and a comprehensive examination
EDUC 883 - MEd Comprehensive Examination (5)

*Students in the TEAL-F stream are strongly encouraged to take one or more electives from the list of TEAL elective courses.

Program Length
Students are expected to complete the TEAL-F program requirements within four 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.
The Faculty of Environment Graduate Studies Committee has approved the request from the SFU-BCIT MSc in Ecological Restoration to create three new courses ECO 600, ECO 630 and ECO 640, and to revise the calendar entry for the program.

I am submitting the forms and supporting documents for approval from SGSC. The package includes:

1. Memo from Dr. Leah Bendell, SFU Chair of the SFU-BCIT MSc program
2. ECO 600 (0) Ecological Restoration I, New Course Form
3. ECO 630 (3) Applied Research Project I, New Course Form and the course outline
4. ECO 640 (3) Applied Research Project II, New Course Form and the course outline
5. Revised calendar entry for the program

Should you have any questions, please feel free to contact me directly.

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

[Signature]
Please note:

To view the Spring 2017 Academic Calendar go to http://www.sfu.ca/students/calendar/2017/spring.html

Ecological Restoration Program | Faculty of Environment
Simon Fraser University Calendar | Summer 2017

Ecological Restoration

MASTER OF SCIENCE

Simon Fraser University and the British Columbia Institute of Technology collaborate on the Master of Science (M.Sc.) in Ecological Restoration, a full time professional graduate program offering a combined emphasis on applied technical experience and advanced theoretical foundations of ecological restoration. This joint BCIT-SFU credential requires students to satisfactorily complete coursework at BCIT and SFU. For further information visit http://www.sfu.ca/fenv/prospective-students/graduate/ecological-restoration.html.

Admission Requirements

The MSc in Ecological Restoration is administered by SFU and BCIT. To qualify for admission to the program, a student must satisfy the university admission requirements for a Master's Program as stated in Section 1.3.3 of the Graduate Admission section of the SFU calendar.

The student must hold a four year bachelor’s degree in ecology, plant science, animal science, soil science, environmental science, resource science (land, water, fish and wildlife, forestry), physical geography, environmental engineering, or a related program from a recognized postsecondary institution.

In addition, students must have completed:

• one introductory course each in ecology and statistics

• two upper level courses in: biology, ecology (plant, fish, wildlife, restoration/reclamation, etc.), statistics, plants science, soil science, physical geography (hydrology, geomorphology, limnology, etc.), forest science, natural resource management, environmental science, or related courses

See Graduate General Regulations for English Language and reference requirements.

Program Requirements

The program consists of ten courses (including three courses, one core and two electives, in the student’s area of specialization) and an Applied Research Project. These courses can be completed over four academic semesters in the full time program.
The program is composed of three main areas: core program, area of specialization, and applied research project.

**Core Program (required for all students)**

ECOR 9100 Concepts of Ecological Restoration and the Physical Environment

ECOR 9110 Planning and Monitoring for Ecological Restoration

ECOR 9200 Field Applications of Restoration Principles

ECOR 9210 Restoration of Terrestrial Ecosystems; or ECOR 9220 Restoration of Aquatic Ecosystems

ECO 611 - Concepts of Ecological Restoration and the Biological Environment (3)

ECO 621 - Graduate Seminars in Research Methods (3)

ECO 622 - Project Management and Policy for Ecological Restoration (3)

ECO 641 - First Nations & Social Perspectives of Ecological Restoration (3)

NOTE: ECOR courses are based at BCIT.

**Areas of Specialization**

Students select three courses, one core course and two electives, in their area of specialization. The courses are:

- Restoration of Terrestrial Ecosystems Concepts or Restoration of Aquatic Ecosystems (as above)

- Two elective courses from Table 1

Table 1. Elective Area of Specialization courses available at SFU

Aquatic Cluster

EASC 601 - Advanced Groundwater Geochemistry (3)

EASC 70X Special Topics in Hydrology *

GEOG 611 - Hydrology (4)

GEOG 613 - Fluvial Geomorphology (4)

REM 625 - Risk Assessment and Decision Analysis for Management of Natural Resources (5)

REM 670 - Introduction to Forestry (5)

STAT 650 - Quantitative Analysis in Resource Management and Field Biology (5)

Terrestrial Cluster

BISC 838 - Population Dynamics and Demography (3)

GEOG 617 - Soil Science (4)

REM 610 - Applied Environmental Toxicology and Environmental Management of Contaminants (5)

REM 611 - Population and Community Ecology (5) **

REM 625 - Risk Assessment and Decision Analysis for Management of Natural Resources (5)

REM 670 - Introduction to Forestry (5)

STAT 650 - Quantitative Analysis in Resource Management and Field Biology (5)

* Please note that there are a variety of EASC courses of potential relevance to the program.

** Noted as a core REM course that may require a second offering.
Applied Research Project

In their Applied Research Project, students will conduct extensive fieldwork, normally in collaboration with industry partners and academic supervisors.

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.
ECOLOGICAL RESTORATION

MASTER OF SCIENCE

Description of Program
Simon Fraser University and the British Columbia Institute of Technology (BCIT) collaborate on the master of science (MSc) in ecological restoration, a full-time professional graduate program offering a combined emphasis on applied technical experience and advanced theoretical foundations of ecological restoration. This joint BCIT-SFU credential requires students to satisfactorily complete coursework at BCIT and SFU. For further information visit: http://www.sfu.ca/fenv/prospective-students/graduate/ecological-restoration.html.

Admission Requirements
The MSc in Ecological Restoration is administered by SFU and BCIT. Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar.

The student must hold a four year bachelor’s degree in ecology, plant science, animal science, soil science, environmental science, resource science (land, water, fish and wildlife, forestry), physical geography, environmental engineering, or a related program from a recognized post-secondary institution.

In addition, students must have completed:

- One introductory course each in ecology and statistics;
- Two upper level courses; in biology, ecology (plant, fish, wildlife, restoration/reclamation, etc.), statistics, plants science, soil science, physical geography (hydrology, geomorphology, limnology, etc.), forest science, natural resource management, environmental science, or related courses.

See Graduate General Regulations for English language and reference requirements.

Program Requirements
This program consists of core courses, specialization courses, and an applied research project. A minimum of 18 units are completed at SFU. ECOR courses are based at BCIT.

Students complete a minimum of 36 units, including all of all of
ECOR 9100 - Concepts of Ecological Restoration and the Physical Environment (3)
ECOR 9110 - Planning and Monitoring for Ecological Restoration (3)
ECOR 9200 - Field Applications of Restoration Principles (3)
ECO 611 - Concepts of Ecological Restoration and the Biological Environment (3)
ECO 621 - Graduate Seminars in Research Methods (3)
ECO 622 - Project Management and Policy for Ecological Restoration (3)
ECO 641 - First Nations & Social Perspectives of Ecological Restoration (3)

and applied research project I and II
ECOR 9300 – Applied Research Project I (3)
ECOR 9400 – Applied Research Project II (3)
or
ECO 630 – Applied Research Project I (3)
ECO 640 – Applied Research Project II (3)
REVISED
CALENDAR ENTRY

In the applied research project, students will conduct extensive fieldwork, normally in collaboration with industry partners and academic supervisors.

Students enrolled in ECOR 9300 and ECOR 9400 cannot enroll in ECO 630 or ECO 640 for further credit. Students enrolled in ECO 630 or ECO 640 cannot enroll in ECOR 9300 or ECOR 9400 for further credit.

To meet the 18 unit requirement, students are encouraged to access graduate courses offered by Geography, Biological Sciences, Earth Sciences, Resource and Environmental Management and the Bamfield Marine Station. Selection of courses should be done with advice from an ER faculty member and complement the area of specialization, either Terrestrial or Aquatic.

Course enrollment will be dependent on course availability and permission of the instructor.

Program Length
Students are expected to complete the program requirements in six 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.
The graduate program in the Department of Biomedical Physiology and Kinesiology seeks approval for calendar changes to comply with the Degree Audit Program.

The Faculty Graduate Program Committee reviewed and approved the proposed changes. The proposed changes have my approval.

P. Ruben
Memorandum

To: Chair, Faculty Graduate Studies Committee, Faculty of Science
From: Thomas Claydon, Associate Professor, BPK Graduate Program Committee Chair
Re: Changes due to the standardized formatting and SFU Calendar clean-up prompted by the Degree Audit Project
Date: March 1st, 2017

As a result of the Degree Audit Program, we would like to request the following changes to BPK graduate programs listed in the calendar. Revised and current program descriptions and relevant forms are attached.

Proposed changes to the SFU calendar:
1. BPK PhD program (current and revised calendar entries attached).
   a. We are requesting new program requirements.
      i. BPK 896 - PhD Comprehensive Examination.
      ii. BPK 897 - PhD Seminars.
         - The PhD Comprehensive Examination and two PhD Seminars are currently degree requirements, but are not offered as courses. Offering these requirements as courses will allow efficient tracking via the APR and for the degree requirements to appear on the student’s transcript. BPK 897 would be allowed to be repeated once to fulfill the two seminar requirement.
   b. We request that unit assignment for BPK 899 - PhD Thesis be changed from 6 to 30 units.
      - A 30 unit PhD thesis would be more consistent with our MSc degree, which is 30 units from 12 units of courses and 18 units of thesis work.
   c. As per standardized formatting requirements, we request the addition of the following new sections:
      - Description of Program
      - Admission Requirements – we request the addition of information regarding the possible entry routes into the PhD program. This includes moving the MSc to PhD transfer requirements from the MSc Program description into the Admission Requirements section of the PhD Program description.
      - Program Requirements - includes the proposed new courses BPK 896 and BPK 897, as well as the proposed unit change of BPK 899 from 6 to 30 units. We request that the descriptions of the PhD Comprehensive Examination and PhD Seminars be deleted and moved to the relevant course description for BPK 896, BPK 897. We also request that the “Dissertation” section be deleted and replaced with a sub-section “Thesis Requirements” within the Program Requirements section.
      - Program Length.
   d. We request that the description of the Interdisciplinary Oncology Graduate Specialization (IOGS) be deleted and a revised description be created as a stand-alone calendar entry for the specialization. The IOGS specialization description currently exists in both PhD and MSc program descriptions in both BPK and MBB. We propose that having the description as a stand-alone entry in the calendar ensures consistent requirements for the specialization, reduces repetition in the calendar, and allows future changes to be made in one, rather than multiple places. The description has been crafted in conjunction with MBB so that it addresses the degree requirements of both departments. We request the addition of a new
short description in BPK PhD Program Calendar entry to highlight the availability of the optional specialization.

2. BPK (course option) MSc program.
   a. We propose to terminate this program.
      • Admission to the course option MSc was put on hold in 2010. The last student enrolled completed in 2013. See attached Proposal to Terminate a Program.

3. BPK (thesis option) MSc program (current and revised calendar entries attached).
   a. We are requesting new program requirements.
      i. BPK 895 – MSc Proposal.
         • The MSc Proposal is currently a degree requirement, but is not offered as a course. Offering this requirement as a course will allow efficient tracking via the APR and for the degree requirement to appear on the student’s transcript.
   b. We request that the name of the program be changed from Biomedical Physiology and Kinesiology (thesis option) Master of Science to Biomedical Physiology and Kinesiology Master of Science, as per item #2.
   c. As per standardized formatting requirements, we request the addition of the following sections:
      • Description of Program
      • Admission Requirements
      • Program Requirements – includes the proposed new course BPK 895. We also request that the requirement to complete STAT 890 be added. STAT 890 was created in consultation with BPK a number of years ago as a required course for the BPK MSc program.
      • Program Length – we request that the current “Time Required for Degree” section be removed and replaced with the new Program Length standardized section.
   d. As for the PhD Program description, we request that the description of the Interdisciplinary Oncology Graduate Specialization (IOGS) be deleted from the MSc Program description and a revised description be created as a stand-alone calendar entry for the specialization. The IOGS specialization description currently exists in both PhD and MSc program descriptions in both BPK and MBB. We propose that having the description as a stand-alone entry in the calendar ensures consistent requirements for the specialization, reduces repetition in the calendar, and allows future changes to be made in one, rather than multiple places. The description has been crafted in conjunction with MBB so that it addresses the degree requirements of both departments. We request the addition of a new short description in BPK PhD Program Calendar entry to highlight the availability of the optional specialization.
   e. We request that the application criteria for transfer from the MSc to the PhD Program be moved to the Admission Requirements section of the PhD Program Calendar entry.

4. Appended:
   Current and Revised Calendar entries for the BPK PhD Program
   Current and Revised Calendar entries for the BPK MSc Program
   BPK 896 – PhD Comprehensive Examination: New Graduate Course Proposal form
   BPK 897 – PhD Seminar: New Graduate Course Proposal form
   BPK 899 – PhD Thesis: Graduate Course Change form
   BPK 895 – MSc Proposal: New Graduate Course Proposal form
   IOGS stand-alone calendar description
   Proposal to Terminate a Program (BPK (course-based) MSc)

Thomas Claydon, BPK Graduate Program Committee Chair
Current MSc Calendar Entry

Biomedical Physiology and Kinesiology (Thesis Option)

MASTER OF SCIENCE

Program Requirements

This program requires 12 units minimum of graduate courses and a thesis. If a supervisory committee deems that preparation is inadequate, more than this may be required. At least six of these units must be from graduate biomedical physiology and kinesiology (BPK) courses.

Students complete

- BPK 801 - Seminar on Research in Biomedical Physiology and Kinesiology (3)
- and a graduate course in statistics or research methods, such as HSCI 801
- and one additional graduate BPK course
- and one additional graduate BPK course or, with prior approval of the graduate program committee, from outside the Department of Biomedical Physiology and Kinesiology

Deviations from the above curriculum must be approved by the graduate program chair. For further information and regulations, see graduate general regulations.

Thesis Requirements

The school encourages early thesis proposal submission, which is circulated to faculty and resident graduate students, and formally presented for open forum discussion. A formal defence of the completed thesis is made to the examination committee at an open forum. The thesis proposal must precede the defence by at least four months. For regulations, see graduate general regulations.

Interdisciplinary Oncology Graduate Specialization (IOGS)

This specialization is for students who are interested in gaining exposure to diverse facets of cancer-related research. Application to the program is through the Interdisciplinary
Onology Steering Committee. The MSc course requirements for this specialization are as follows:

Students complete the following graduate courses:

BPK 801 - Seminar on Research in Biomedical Physiology and Kinesiology (3)
STAT 890 - Statistics: Selected Topics (4)
ONC 502 - Concepts in Oncology (3)
ONC 510 - Seminars in Oncology (3)

Additional courses may be taken, at the discretion of the student's Senior Supervisor and Supervisory Committee. Such courses may be selected from the following:* 

ONC 548 - Rotation in Oncology (3)
BPK 851 - Recent Advances in Experimental Carcinogenesis (3)
MBB 746 - Cell Death and Cell Survival (3)
MBB 762 - Human Genomics (3)
BISC 834 - Essential Cell Biology (3)
HSCI 775 - Seminar in Molecular Mechanisms of Epigenetics (3)
HSCI 776 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)
HSCI 778 - Seminar in Molecular Epidemiology of Infectious Diseases (3)

*Note: Any relevant Special Topics course from any department may be included upon permission of the IOCS Steering Committee. Oncology related courses at other institutions may also be used to satisfy the elective requirement. Please consult with the Interdisciplinary Oncology Graduate Specialization Steering Committee for queries regarding course eligibility.

MSc Research

A major part of the MSc specialization program will be devoted to original research. A thesis describing the work must be submitted and defended in accordance with SFU Graduate General Regulations.

Time Required for Degree

Requirements are normally completed in six terms.

Application Criteria for Transfer from MSc to PhD Program

Students currently in the biomedical physiology and kinesiology master's program may be considered for transfer to the PhD program. Such transfers will be infrequent and very
selective. Normally, only students enrolled in their third through sixth terms may apply to transfer to the PhD program. The graduate program committee (GPC) reviews such applications, and the GPC chair forwards a recommendation to the dean of graduate studies. The decision is made by the dean of graduate studies.

In addition to section 1.3.4 of the graduate general regulations, eligibility and the decision regarding transfer to the PhD in biomedical physiology and kinesiology will include the following criteria.

- strong support letters from the senior supervisor and at least one other academic referee
- excellent academic performance (e.g. minimum GPA of 3.67)
- strong background in research design and statistics or modeling as appropriate to the area
- completion of biomedical physiology and kinesiology graduate seminar course BPK (or KIN) 801
- evidence that the student is capable of completing and disseminating research. Such capability will be judged by research to date, publications and letters from referees.

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.
Biomedical Physiology and Kinesiology

MASTER OF SCIENCE

Description of Program
The MSc program in the Department of Biomedical Physiology and Kinesiology involves multidisciplinary approaches to investigate fundamental properties of human structure and function that relate to health, movement, and physiology. The Master's program provides research training through a series of graduate level courses combined with a research thesis presenting novel lines of enquiry related to the fields of Biomedical Physiology and Kinesiology.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Students enrolled in the MSc program may apply for transfer to the PhD program.

Program Requirements
This program consists of courses, a thesis proposal, and a thesis for a minimum of 30 units. If a supervisory committee deems that preparation is inadequate, more than the minimum requirements may be required.

Students must complete:
BPK 801 - Seminar on Research in Biomedical Physiology and Kinesiology (3)
STAT 890 - Statistics: Selected Topics (4)

and two additional elective graduate courses selected with input of the supervisory committee.

and a thesis proposal
BPK 895 - MSc Thesis Proposal (0)

and a thesis
BPK 898 - MSc Thesis (18)

Elective courses taken outside the Department of Biomedical Physiology and Kinesiology need prior approval of the graduate program chair.

Thesis Proposal Requirements
The Thesis Proposal will consist of a research proposal, and a related oral examination of the proposed research. The written research proposal will be 5 single-spaced pages, not including tables, figures and references. A formal, open forum, oral examination of the research proposal to the supervisory committee will be held. The research proposal must be circulated to faculty and resident graduate students ahead of the open forum oral examination.

Thesis Requirements
A major part of the MSc program will be devoted to original research. A thesis describing the work must be submitted and defended at an open forum in accordance with SFU Graduate General Regulations 1.10.

Program Length
Students are expected to complete the program requirements in six contiguous terms. Time limits for program completion are governed by Graduate General Regulations 1.12.
Optional Specialization in Interdisciplinary Oncology

This specialization within the BPK MSc Program is for students who are interested in gaining exposure to diverse facets of cancer-related research. Application to the Interdisciplinary Oncology Graduate Specialization (IOGS) is through the interdisciplinary oncology steering committee. Students must fulfill all Departmental requirements for the MSc.

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.
Biomedical Physiology and Kinesiology

DOCTOR OF PHILOSOPHY

Students are admitted to a program area that is defined and determined prior to acceptance by the school's graduate program committee. The program must be within the student's and the school's capabilities. Students must show competence in methodology relevant to proposed research.

Normally the supervisory committee will prescribe courses necessary to complete the student's academic preparation. In exceptional circumstances, the supervisory committee may allow the student to proceed without additional course work over and above that for a master's degree.

Study and research is designed to suit the background and research objectives of each student and may differ widely from student to student.

The student will present two school seminars on topics approved by the student's senior supervisor, of which one should be directly related to the student's thesis research. At least one of the seminars should be presented as a school seminar. The graduate program committee encourages students to participate in appropriate scientific meetings and conferences. As such, approval of a formal conference presentation, in lieu of one of the school seminars, will typically be granted.

Comprehensive Examination

The comprehensive exam will normally consist of a research proposal, and a related oral exam.

The research proposal will be written in the format of a CIHR Operating Grant application, with an eleven page limit exclusive of references, appendices, figures and tables. The proposal is to be written independently by the candidate, and should be written in enough detail to determine that the research is feasible and sufficient for PhD level research.

The oral examination is designed to assess the candidate's ability to understand the underlying science, and their ability to undertake the proposed research. It will consist of a 20-30 minute presentation of the candidate's research proposal, followed by a closed session. At the oral examination, the examiners will further explore the student's knowledge in any area that is relevant to the proposed research.

Students should normally expect to complete their comprehensive exams within the first six terms. The examining committee will include the senior supervisor who, in consultation with the candidate, will nominate the other examining committee members, subject to the
Current PhD Calendar Entry

approval of the graduate program committee. Normally this will consist of the members of
the student's supervisory committee, plus an additional examiner who is external to the
student's supervisory committee. The graduate program committee chair or designate will
chair the committee.

Dissertation

The completed dissertation is judged by the candidate's examining committee. If the
dissertation defence is failed, the candidate is ineligible for further candidacy in the degree
program at this University.

For information and regulations, see the graduate general regulations.

Interdisciplinary Oncology Graduate Specialization (IOGS)

This specialization is for students who are interested in gaining exposure to diverse facets
of cancer-related research. Application to the program is through the Interdisciplinary
Oncology Steering Committee. The PhD requirements for this specialization are as follows:

Entry with a BSc or equivalent:

Students who enter the program with a Bachelor of Science (BSc) degree, or equivalent, are
required to complete the same course requirements as for the thesis MSc.

Entry with an MSc Degree:

Students who enter the program with a Master of Science (MSc) degree will complete a
minimum of two courses, including:

ONC 502 - Concepts in Oncology (3)
ONC 510 - Seminars in Oncology (3)

Additional courses may be taken, at the discretion of the student's Senior Supervisor and
Supervisory Committee. Such courses may be selected from the following:

ONC 548 - Rotation in Oncology (3)
BPK 851 - Recent Advances in Experimental Carcinogenesis (3)
MBB 746 - Cell Death and Cell Survival (3)
MBB 762 - Human Genomics (3)
BISC 834 - Essential Cell Biology (3)
HSCI 775 - Seminar in Molecular Mechanisms of Epigenetics (3)
HSCI 776 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)
HSCI 778 - Seminar in Molecular Epidemiology of Infectious Diseases (3)

*Note: Any relevant Special Topics course from any department maybe included upon permission of the IOGS Steering Committee. Oncology related courses at other institutions may also be used to satisfy the elective requirement. Please consult with the Interdisciplinary Oncology Graduate Specialization Steering Committee for queries regarding course eligibility.

If a student has already completed the specialization as an MSc student, they may still enroll in the IOGS as a PhD student upon approval by the IOGS steering committee. Note that in this circumstance, ONC 510-3 must be taken for credit again in the PhD program, but ONC 502-3 cannot be taken again for credit.

Research

The major portion of the PhD specialization program will be devoted to original research. An original thesis which contributes to new knowledge must be presented and defended at the end of the degree program in accordance with SFU Graduate General Regulations. In addition, all BPK PhD candidates must meet all other requirements for the BPK PhD degree.

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.
Biomedical Physiology and Kinesiology

DOCTOR OF PHILOSOPHY

Description of Program
The PhD graduate program in the Department of Biomedical Physiology and Kinesiology uses multidisciplinary approaches to investigate fundamental properties of human structure and function that relate to health, movement, and physiology. The PhD program offers opportunity for trainees to engage in detailed and in-depth examination of novel lines of investigation in the fields of Biomedical Physiology and Kinesiology.

Admission Requirements
Applicants must satisfy the University admission requirements as stated in Graduate General Regulations 1.3 in the SFU Calendar. Students are admitted to a program area that is defined and determined prior to recommendation by the Department's graduate program committee. The program must be within the capabilities of the student and Department. Students must show competence in methodology relevant to proposed research.

Students may be admitted to the PhD program in Biomedical Physiology and Kinesiology via one of three routes:
- Admission to the PhD program with a Master's degree
- Transfer from the MSc to the PhD program
- Direct admission to the PhD program with a Bachelor's degree

Admission to the PhD program with a Master's degree
Students with a completed Master's degree who satisfy SFU admission requirements may be admitted to the PhD program.

Transfer from the MSc to the PhD program
Students currently in the Biomedical Physiology and Kinesiology Master's program may be considered for a transfer to the PhD program. Normally, only students enrolled in their third through sixth terms may apply to transfer to the PhD program. The graduate program committee (GPC) reviews such applications, and the GPC chair forwards a recommendation to the Dean of Graduate Studies. The decision is made by the Dean of Graduate Studies.

In addition to Graduate General Regulations 1.3.4, eligibility and the decision regarding transfer to the PhD in BPK will include the following criteria:

- strong support letters from the senior supervisor and supervisory committee members;
- excellent academic performance (e.g. minimum GPA of 3.67);
- strong background in research design and statistics or modelling as appropriate to the area
- completion of 3 of the 4 courses required by the MSc program, which must include BPK 801 and STAT 890;
- evidence that the student is capable of completing and disseminating research. Such capability will be judged by research to date, publications, and letters from referees.

Direct admission to the PhD program with a Bachelor's degree
In exceptional cases, students may be admitted to the PhD program direct from completion of a Bachelor's degree.

Program Requirements
This program consists of a comprehensive examination (BPK 896), two seminar presentations (BPK 897), and a thesis (BPK 899). Normally the supervisory committee will prescribe courses necessary to complete the student's academic preparation. However, the supervisory committee may allow the student to proceed without additional course work over and above that for a Master's degree. Students who transfer from the MSc to the PhD program are required to complete the elective course requirements for the MSc. Students who are a direct admit to the PhD
Revised PhD calendar entry

program with a Bachelor's must complete BPK 801, STAT 890, and two elective graduate courses as specified for the MSc Program. Students admitted with a Master's degree are recommended to complete BPK 801.

Study and research is designed to suit the background and research objectives of each student and may differ widely from student to student.

Students must complete:
a comprehensive exam
BPK 896- Comprehensive Exam (0)

and two seminars
BPK 897 - PhD Seminars (0)

and a thesis
BPK 899 - PhD Thesis (30)

Thesis Requirements
A thesis describing the PhD research must be submitted and defended at an open forum in accordance with Graduate General Regulation 1.10.

Program Length
Students are expected to complete the program requirements within fifteen terms from first enrollment, including students who have transferred from the MSc program. Time limits for program completion are governed by Graduate General Regulation 1.12.

Optional Specialization in Interdisciplinary Oncology
This specialization within the BPK PhD Program is for students who are interested in gaining exposure to diverse facets of cancer-related research. Application to the Interdisciplinary Oncology Graduate Specialization (IOGS) is through the interdisciplinary oncology steering committee. Students must fulfill all Departmental requirements for the PhD.

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.
Interdisciplinary Oncology Graduate Specialization (IOGS)
This specialization is for students who are interested in gaining exposure to diverse facets of cancer-related research. Application to the program is through the interdisciplinary oncology steering committee (www.sfu.ca/bpk/grad_program/IOGS_program).

Students must fulfill all departmental requirements for the degree in which they are enrolled.

The IOGS requires completion of two courses, which can count toward the departmental requirement for elective graduate courses.

The two required IOGS courses are:
ONC 502 - Concepts in Oncology (3)
ONC 510 - Seminars in Oncology (3)

Additional courses may be taken at the discretion of the student's senior supervisor and supervisory committee. Such courses may be selected from the following*:
ONC 548 - Rotation in Oncology (3)
BPK 851 - Recent Advances in Experimental Carcinogenesis (3)
BPK 806 - Special Topics in BPK: Medical Genetics (3)
MBB 505 - Problem Based Learning in Bioinformatics (3)
MBB 746 - Cell Death and Cell Survival (3)
MBB 762 - Human Genomics (3)
BISC 834 - Essential Cell Biology (3)
HSCI 775 - Seminar in Molecular Mechanisms of Epigenetics (3)
HSCI 776 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)
HSCI 778 - Seminar in Molecular Epidemiology of Infectious Diseases (3)

*Note: Any relevant special topics course from any department may be included upon permission of the IOGS steering committee. Oncology related courses at other institutions may also be used to satisfy the elective requirement. Please consult with the IOGS steering committee for queries regarding course eligibility.
MEMORANDUM

ATTENTION: Senate
FROM: Jeff Derksen,
Acting Chair of Senate Graduate Studies Committee (SGSC)
RE: Graduate General Regulation (GGR) Revisions: GGR 1.4.3, GGR 1.4.6, GGR 1.4.9, GGR 1.5.1, GGR 1.5.6, and GGR 1.5.8

At its meeting of June 5, 2017, SGSC reviewed and approved the revisions to GGR 1.4.3 (Continuity of Enrollment), GGR 1.4.6 (Course Audit), GGR 1.4.9 (Readmission), GGR 1.5.1 (Normal Grading System), GGR 1.5.6 (FD Notation) and GGR 1.5.8 (Student’s Record after Awarding Degree). This gives rise to the following motions, effective Spring 2018.

Motion 1
That Senate approve the revisions to GGR 1.4.3 (Continuity of Enrollment)

Motion 2
That Senate approve the revisions to GGR 1.4.6 (Course Audit)

Motion 3
That Senate approve the revisions to GGR 1.4.9 (Readmission)

Motion 4
That Senate approve the revisions to GGR 1.5.1 (Normal Grading System)

Motion 5
That Senate approve the revisions to GGR 1.5.6 (FD Notation)

Motion 6
That Senate approve the revisions to GGR 1.5.8 (Student’s Record after Awarding Degree)
MEMORANDUM

ATTENTION: Senate Graduate Studies Committee

FROM: Peter Liljedahl,
Acting Dean of Graduate Studies

DATE: May 25, 2017
PAGES: 1/8

RE: Editorial revisions to GGR 1.4.3, 1.4.6, 1.4.9, 1.5.1, 1.5.6, 1.5.8

Motion
That SGSC approve the revisions to GGR 1.4.3 (Continuity to Enrollment), GGR 1.4.6 (Course Audit), GGR 1.4.9 (Readmission), GGR 1.5.1 (Normal Grading System), GGR 1.5.6 (FD Notation) and GGR 1.5.8 (Student’s Record after Awarding Degree).

The rationale to the following GGRs are as follows:

GGR 1.4.3 (Continuity to Enrollment)
The terminology of “withdrawn” is being replaced with “discontinue” as a result of the changes effective Fall 2016 to GGR 1.4.8 and 1.4.9.

GGR 1.4.6 (Course Audit)
There is no longer a “late enrollment period” therefore a new deadline was added.

GGR 1.4.9 (Readmission)
An editorial change is necessary to clarify that readmission is for when a student has discontinued from their program and not when the program at SFU has been discontinued.

GGR 1.5.1 (Normal Grading System)
IP and CO are notations and do not impact the student’s CGPA. A correction is being requested to remove the IP and CO from being listed in the CGPA chart at the beginning of 1.5.1.

GGR 1.5.6 (FD Notation)
The revision is to align the GGR with the S10.01 appendix 3 policy on academic dishonesty. The university policy has not changed, however, the GGR did not include which situations would result in an FD remaining on a student’s transcript.

GGR 1.5.8 (Student’s Record after Awarding Degree)
Editorial revision as a result of the proposed change to GGR 1.5.6.
Calendar Entry Change for GGR 1.4.3 Continuity of Enrollment

<table>
<thead>
<tr>
<th>FROM</th>
<th>TO</th>
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</thead>
<tbody>
<tr>
<td>1.4.3 Continuity of Enrollment</td>
<td>1.4.3 Continuity of Enrollment</td>
</tr>
<tr>
<td>All graduate students are required to maintain continuous enrollment unless they have been granted a leave of absence from their program (see 1.8.4). Enrollment in an audit course only does not satisfy the requirement for continuity of enrollment. When a student is not enrolled and is not on an approved leave of absence from their program, the student is considered to have withdrawn from the University. Graduate students who are withdrawn from the University do not retain their award or scholarship.</td>
<td>All graduate students are required to maintain continuous enrollment unless they have been granted a leave of absence from their program (see 1.8.4). Enrollment in an audit course only does not satisfy the requirement for continuity of enrollment. When a student does not enroll and is not on an approved leave of absence, the student is discontinued from their program. Graduate students who are discontinued do not retain their award or scholarship.</td>
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<td>FROM</td>
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<tr>
<td><strong>1.4.6 Course Audit</strong></td>
<td><strong>1.4.6 Course Audit</strong></td>
</tr>
<tr>
<td>Graduate students may audit graduate courses, with permission of the instructor, senior supervisor and graduate program chair of the student's department. Such audits are recorded as AU on the student's transcript.</td>
<td>Graduate students may audit graduate courses, with permission of the instructor, senior supervisor and graduate program chair of the student's department. Such audits are recorded as AU on the student's transcript.</td>
</tr>
<tr>
<td>Prior to enrollment, the student and instructor must agree on the requirements for auditing the class. These requirements must include regular attendance at class meetings, completion of readings and participation in class activities.</td>
<td>Prior to enrollment, the student and instructor must agree on the requirements for auditing the class. These requirements must include regular attendance at class meetings, completion of readings and participation in class activities.</td>
</tr>
<tr>
<td>Audited courses will not count toward degree requirements.</td>
<td>Audited courses will not count toward degree requirements.</td>
</tr>
<tr>
<td>A student may change enrollment status in a course from audit to regular enrollment, or from regular enrollment to audit until the deadline for late enrollment for the term. Normally, no further change in enrollment status will be permitted after that date.</td>
<td>A student may change enrollment status in a course from audit to regular enrollment, or from regular enrollment to audit until the <strong>end of the second week of classes</strong>. Normally, no further change in enrollment status will be permitted after that date.</td>
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</table>
### Calendar Entry Change for GGR 1.4.9 Readmission

<table>
<thead>
<tr>
<th>FROM</th>
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</table>
| **1.4.9 Readmission**  
Students who have passed the deadline for reactivation, and are within the time limit for their program plus three terms of possible extension time, can apply for readmission through the regular admission process for new students. When a student's program is discontinued, the time away continues to count towards the time limit and possible extension time for program completion. Students who are readmitted to their program maintain the same start date and time limit from when they were first admitted to the program. | **1.4.9 Readmission**  
Students who have passed the deadline for reactivation, and are within the time limit for their program plus three terms of possible extension time, can apply for readmission through the regular admission process for new students. When a student is **discontinued from their program**, the time away continues to count towards the time limit and possible extension time for program completion. Students who are readmitted to their program maintain the same start date and time limit from when they were first admitted to the program. |
Calendar Entry Change for GGR 1.5.1 Normal Grading System

<table>
<thead>
<tr>
<th>FROM</th>
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<tbody>
<tr>
<td><strong>1.5.1 Normal Grading System</strong></td>
<td><strong>1.5.1 Normal Grading System</strong></td>
</tr>
<tr>
<td>The following grades are used at the graduate level in the University.</td>
<td>The following grades are used at the graduate level in the University.</td>
</tr>
<tr>
<td>A+ = 4.33 point (in use since 2002-3)</td>
<td>A+ = 4.33 point (in use since 2002-3)</td>
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<tr>
<td>A = 4.00 points</td>
<td>A = 4.00 points</td>
</tr>
<tr>
<td>A- = 3.67 points</td>
<td>A- = 3.67 points</td>
</tr>
<tr>
<td>B+ = 3.33 points</td>
<td>B+ = 3.33 points</td>
</tr>
<tr>
<td>B = 3.00 points</td>
<td>B = 3.00 points</td>
</tr>
<tr>
<td>B- = 2.67 points</td>
<td>B- = 2.67 points</td>
</tr>
<tr>
<td>C+ = 2.33 points (in use since 2002-3)</td>
<td>C+ = 2.33 points (in use since 2002-3)</td>
</tr>
<tr>
<td>C = 2.00 points</td>
<td>C = 2.00 points</td>
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<tr>
<td>F = 0 points</td>
<td>F = 0 points</td>
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<tr>
<td>IP = 0 points</td>
<td>N = 0 points</td>
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<tr>
<td>CO = 0 points</td>
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<tr>
<td>N = 0 points</td>
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</table>

A student in a master’s or doctoral program must maintain a cumulative grade point average (CGPA) of 3.0 in courses completed at Simon Fraser University. The CGPA is the cumulative average of the grade points earned in the Simon Fraser University graduate courses completed towards a graduate certificate, diploma, or towards a master’s or doctoral degree.

A student in a certificate or diploma program must maintain a cumulative grade point average (CGPA) of 2.5 in courses completed at Simon Fraser University. Courses graded on a satisfactory/unsatisfactory basis are not included in the grade point average.
When a student is working on a thesis, extended essay or project as part of the requirements for the degree, the notation IP (in progress) shall be entered on the transcript. IP is not a grade and is not used in calculating the student’s CGPA. When a thesis, extended essay or project is completed, the notation CO shall be entered on the transcript. CO is not a grade and is not used in calculating the student’s CGPA.

[...]

When a student is working on a thesis, extended essay or project as part of the requirements for the degree, the notation IP (in progress) shall be entered on the transcript. IP is not a grade and is not used in calculating the student’s CGPA. When a thesis, extended essay or project is completed, the notation CO shall be entered on the transcript. CO is not a grade and is not used in calculating the student’s CGPA.

[...]
### Calendar Entry Change for GGR 1.5.6 FD Notation

<table>
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<tr>
<th>FROM</th>
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<tbody>
<tr>
<td><strong>1.5.6 FD Notation</strong></td>
<td><strong>1.5.6 FD Notation</strong></td>
</tr>
<tr>
<td>The letter grade FD (fail, academic discipline) is given by the chair of the department when a student has committed academic dishonesty (see Policy S10.01 Appendix 3). The grade will remain on a student’s transcript until two years following graduation at which time it will convert to F.</td>
<td>The letter grade FD (fail, academic discipline) is given by the chair of the department when a student has committed academic dishonesty (see Policy S10.01 Appendix 3). The grade will convert to an F two years following graduation if the student did not commit further acts of academic dishonesty following the imposition of the FD grade.</td>
</tr>
</tbody>
</table>
Calendar Entry Change for GGR 1.5.8 Student's Record after Awarding Degree

<table>
<thead>
<tr>
<th>FROM</th>
<th>TO</th>
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</thead>
<tbody>
<tr>
<td>1.5.8 Student's Record after Awarding Degree</td>
<td>1.5.8 Student's Record after Awarding Degree</td>
</tr>
<tr>
<td>When Senate awards a graduate student's credential, the student record is normally considered closed for purposes of grade changes, degree standing and all changes to transcripts and parchments. The exceptions to this would be when there is an appeal pending that had been started prior to the awarding of the credential, or an administrative error on the part of the University.</td>
<td>When Senate awards a graduate student's credential, the student record is normally considered closed for purposes of grade changes, degree standing and all changes to transcripts and parchments. The exceptions to this would be when there is an appeal pending that had been started prior to the awarding of the credential, an administrative error on the part of the University or as per GGR 1.5.6.</td>
</tr>
</tbody>
</table>
To: Senate

From: Jo Hinchliffe, Secretary
Senate Nominating Committee

Date: June 22, 2017

Subject: Senate Committee Elections

This is a summary of the nominations received and outstanding vacancies for Senate committees.

All nominations must be received by the Senate Office from the Nominating Committee in time to be included in the documentation sent out for the next Senate meeting. Senators will be informed that further nominations may be made by individual members of Senate. Any such nominations must reach the Committee Secretary the Friday before the meeting of Senate, and no further nominations will be accepted after this time. The Committee Secretary will provide members of Senate at the Senate meeting with such further nominations as may have been received. Oral nominations during the meeting of Senate will not then be allowed.

If only one nomination is received for a position, the position will be elected by acclamation. If more than one nomination is received for a position, online voting will be held during the week following the Senate meeting on Monday, July 10, 2017. An email will be sent to all Senators with information about the candidates and a link to the online voting system. Voting will be permitted for 48 hours and election results will be released within three days of the end of voting.

<table>
<thead>
<tr>
<th>COMMITTEE</th>
<th>POSITION</th>
<th>TERM (from June 1, 2017)</th>
<th>NOMINATIONS RECEIVED (after June Senate elections)</th>
<th>CANDIDATES ELECTED (from June Senate meeting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC</td>
<td>Faculty Senator</td>
<td>2 years</td>
<td>Peter Tingling</td>
<td></td>
</tr>
<tr>
<td>CC</td>
<td>Student Member</td>
<td>1 year</td>
<td>Claire Christie</td>
<td></td>
</tr>
<tr>
<td>DQAC</td>
<td>Faculty Member</td>
<td>2 years</td>
<td>Laura Marks</td>
<td></td>
</tr>
<tr>
<td>DQAC</td>
<td>Convocation Senator</td>
<td>3 years</td>
<td>Sylvia Gajdics</td>
<td></td>
</tr>
<tr>
<td>DQAC</td>
<td>Undergraduate Student</td>
<td>1 year</td>
<td>Erik Sagmeon</td>
<td></td>
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<tr>
<td>DQAC</td>
<td>Undergraduate Student</td>
<td>1 year</td>
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<tr>
<td>ESC</td>
<td>Student Senator</td>
<td>1 year</td>
<td>Alam Khehra</td>
<td></td>
</tr>
<tr>
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<td>Graduate Student Member</td>
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<td>Vice Chair of Senate</td>
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<td>Peter Tingling</td>
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* SCIA Faculty members: In the event that the Faculty Member is unable to attend, the Faculty Dean is authorized to appoint an alternate replacement.

CC    Calendar Committee
DQAC  Diverse Qualifications Adjudication Committee
ESC   Electoral Standing Committee
LPAC  Library Penalties Appeal Committee
REB   Research Ethics Board
SAB   Senate Appeals Board
SCAR  Senate Committee on Agenda and Rules
SCCS  Senate Committee on Continuing Studies
SCEMP Senate Committee on Enrolment Management and Planning
SCIA  Senate Committee on International Activities
SCODA Senate Committee on Disciplinary Appeals
SCUH  Senate Committee on University Honours
SCUP  Senate Committee on University Priorities
SCUS  Senate Committee on Undergraduate Studies
SCUTL Senate Committee on University Teaching and Learning
SGAAC Senate Graduate Awards Adjudication Committee
SGSC  Senate Graduate Studies Committee
SLC   Senate Library Committee
SNC   Senate Nominating Committee
SPCSAB Senate Policy Committee on Scholarships, Awards & Bursaries
SUAAAC Senate Undergraduate Awards Adjudication Committee