THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

12 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **JANUARY CURRICULUM PROPOSALS**

The Senate Curriculum Committee has reviewed the material forwarded to it by the faculties, and encloses those proposals it deems as ready for approval.

As such, the following is recommended to Senate:

> *"That Senate approves the new and changed courses and programs from the Faculties of Arts, Applied Science, Commerce & Business Administration, Forestry, Graduate Studies, Medicine and Science as set out in the attached packages."*

Further, on the Senate website at http://students.ubc.ca/senate/schedule.cfm is the final set of reformatted Graduate Program statements (under materials for the January 2007 Senate). This exercise is being conduced to provide uniform and consistent representation of all Faculty of Graduate Studies graduate program requirements in the calendar. As Senators will recall, two other sets of statements have been previously approved. As such, the following is recommended to Senate:

> *"That Senate approves the revised Graduate Program statements (Audiology and Speech Sciences through Zoology, list not inclusive alphabetically)"*

Finally, the Senate Curriculum Committee is pleased to recommend to Senate a new graduate initiative in Engineering in conjunction with the National University of Singapore, and as such recommends the following to Senate:

> *"That Senate approves the joint degree program in Mechatronics Design to be offered by the Faculty of Applied Science at the University of British Columbia and the Faculty of Engineering at the National University of Singapore."*

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16 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **FACULTY OF APPLIED SCIENCE CURRICULUM REPORT**

Attached please find the recommended Category 1 undergraduate curriculum proposals from the Faculty of Applied Science.

1) The following new courses:
   a. **APSC 452** (3) Biomedical Equipment, Physiology, and Anatomy
   b. **APSC 456** (3) Clinical and Industrial Biomedical Engineering
   c. **CIVL 201** (3) Civil Engineering I
   d. **CIVL 202** (3) Civil Engineering II

2) The following new options in **Electrical Engineering**:
   a. **Nanotechnology and Microsystems**
   b. **Biomedical Engineering**

3) The following new courses:
   a. **EECE 300** (3) Molecules to Mechanisms
   b. **EECE 301** (2) Topics in Nanotechnology and Microsystems
   c. **EECE 400** (6) Nanotechnology and Microsystems Project
   d. **EECE 401** (3) Nanotechnology in Electronics
   e. **EECE 402** (3) Sensors and Actuators in Microsystems
   f. **EECE 403** (3) Micro/Nanofabrication and Instrumentation Laboratory
   g. **EECE 404** (3) Nanotechnology and Nature

4) The following changed program:
   a. **Engineering Physics**

5) The following new option in **Mechanical Engineering:**
   a. **Biomedical Engineering**

6) The following new courses:
   a. **MECH 305** (6) Data Analysis and Mechanical Engineering Laboratories
   b. **MECH 306** (4) Data Analysis and Mechatronics Laboratories
   c. **MECH 439** (1) Biomechanics Research
   d. **MECH 459** (6) Biomedical Design Project

FACULTY OF APPLIED SCIENCE(ENGINEERING): CATEGORY 1 UNDERGRADUATE CURRICULUM REPORT

FALL 2006

Undergraduate:

Applied Science	2
Civil Engineering	2
Electrical and Computer Engineering	3
Engineering Physics	7
Mechanical Engineering	8

FACULTY OF APPLIED SCIENCE (ENGINEERING)
CATEGORY 1 UNDERGRADUATE CURRICULUM REPORT

FALL 2006

Department: APPLIED SCIENCE Faculty Approval Date: November 9, 2006	Contact Person: Bruce Dunwoody Phone: 2-3701 Email: bruce.dunwoody@ubc.ca
APSC Undergraduate New Course(s)	
Effective Date: September 1, 2007. Proposed Calendar Entry: **APSC 452 (3) BIOMEDICAL EQUIPMENT, PHYSIOLOGY, AND ANATOMY.** **Principles and operation of biomedical equipment for cardiovascular system, respiratory system, renal dialysis, endoscopy, surgery, and imaging. Functional relationships of biomedical equipment to physiology and anatomy of major body systems. Restricted to students in EECE and MECH Biomedical Engineering options. Credit is given for one of APSC 452 or APSC 530. [3-0-2*]**	URL: n/a Present Calendar Entry: None Type of Action: New course. Rationale: This is needed in support of the undergraduate Biomedical Engineering option programs being offered by the Departments of Electrical & Computer Engineering and Mechanical Engineering. The course contents are considered core requirements by the biomedical engineering industry. Document ID#: APSC UG001
Effective Date: September 1, 2007. Proposed Calendar Entry: **APSC 456 (3) CLINICAL AND INDUSTRIAL BIOMEDICAL ENGINEERING.** **Principles of clinical practice, Canadian healthcare system, medical approach to diagnosis, ethics and regulations for clinical trials, medical technology management, medical device development and standards, biostatistics. Credit is given for one of APSC 456 or APSC 556. Restricted to students in EECE and MECH Biomedical Engineering options. [3-0-0]**	URL: n/a Present Calendar Entry: None Type of Action: New course. Rationale: This is an undergraduate version of APSC 556 which is needed in support of the undergraduate Biomedical Engineering option programs being offered by the Departments of Electrical & Computer Engineering and Mechanical Engineering. The evaluation criteria for the undergraduate version are consistent with other 400-level engineering courses whereas the graduate version requires one additional term project. Document ID#: APSC UG002
Department: CIVIL ENGINEERING Faculty Approval Date: November 9, 2006	Contact Person: Dr. Susan Nesbit Phone: 2-8703 Email: nesbit@inaterchange.ubc.ca
CIVL Undergraduate New Course(s)	
Effective Date: September 2007. Proposed Calendar Entry: **CIVL 201(3) CIVIL ENGINEERING I.** **Social context, decision-making, sustainable development, systems analysis, computational modeling using spreadsheets and other software tools. [3-1-0]**	URL: n/a Present Calendar Entry: n/a Type of Action: New course. Rationale: Replaces 3 credits of CIVL 200 and CIVL 225 in the core 2nd year program, providing better integration of topics. Document ID#: CIVL UG001

Effective Date: September 2007. Proposed Calendar Entry: **CIVL 202 (3) CIVIL ENGINEERING II.** **Design, infrastructure context, non-technical issues, knowledge integration, drawings, team work, case studies. [1*-1-3]**	URL: n/a Present Calendar Entry: n/a Type of Action: New course Rationale: Replaces 3 credits of CIVL 200 and CIVL 225 in the core 2nd year program, providing better integration of topics. Document ID#: CIVL UG002
Department: ELECTRICAL AND COMPUTER ENGINEERING Faculty Approval Date: November 9, 2006	Contact Person: Dr. Andre Ivanov Phone: 2-6936 Email: ivanov@ece.ubc.ca
EECE Undergraduate New Program (s)	
Effective Date: September 2007. Proposed Calendar Entry: Electrical Engineering *http://www.students.ubc.ca/calendar/index.cfm?tree=12,195,272,3* *To be follow the 4th Year Electrical Engineering Program:* **Nanotechnology and Microsystems Option** **Students who satisfactorily complete the following program will be given recognition as receiving the Bachelor of Applied Science in Electrical Engineering (Nanotechnology and Microsystems Option). To complete this option, students will take the program listed below. Students accepted into this option may also apply for acceptance into the UBC Cooperative Engineering Program and to the Project Integrated Program.** **TRADITIONAL SECOND YEAR** **APSC 201 3** **CPSC 260 4** **EECE 251 2** **EECE 253 2** **EECE 254 3** **EECE 256 3** **EECE 259 3** **EECE 261 3** **EECE 280 2** **EECE 281 3** **MATH 263 4** **MATH 265 2** **MATH 267 3** **Total Credits 37** **PROJECT INTEGRATED PROGRAM (PIP)**	URL: n/a Present Calendar Entry: n/a Action: New program. Rationale: To provide students with a solid foundation in Electrical Engineering as well as specific training in subjects that are becoming increasingly important as devices become smaller and systems become faster and more complex: •Electronics including emerging nanodevices •Micro/Nanoscale mechanisms and methods (physical, chemical, mechanical, biological and numerical) •Micro/nano system design and analysis •Micrometer and nanometer scale fabrication and instrumentation • Electromagnetics at small length scales The program will provide students with practical project experience in the micro and nano technology fields and continue to establish British Columbia as a centre of expertise. The courses in this option will be supported by 13 faculty with expertise in nanotube and nanowire devices, quantum computing, organic electronics, optoelectronics & photonics, Na/K channels, microactuators, microscale implantable devices, microfluidics, microsensors, and microprinting. Document ID#: EECE UG001

APSC 201	**3**
CPSC 260	**4**
EECE 201	**10**
EECE 202	**11**
MATH 263	**4**
MATH 265	**2**
MATH 267	**3**
Total Credits	**37**
THIRD YEAR	
EECE 300	**3**
EECE 301	**2**
	[JDWN
EECE 352	**3**
EECE 353	**3**
EECE 356	**4**
EECE 359	**3**
EECE 360	**3**
EECE 364	**4**
EECE 373	**4**
STAT 251	**3**
Complementary Studies Electives[1]	**6**
Total Credits	**38**
FOURTH YEAR	
APSC 450	**2**
EECE 400	**6**
	[JDWN
EECE 401	**3**
EECE 402	**3**
EECE 403	**3**
	[JDWN
EECE 450	**3**
Technical Electives[2]	**15**
Total Credits	**35**

[1] See Complementary Studies Courses, p. 97.
[2] To be chosen from the list of fourth year electives available from the Department, nine credits of which must be chosen from courses that are related to the option[JDWM4].

EECE Undergraduate Program Change(s)

Effective Date: September 2007.

URL: http://www.students.ubc.ca/calendar/index.cfm?tree=12,195,272,39

Proposed Calendar Entry:

Biomedical Engineering Option:
…

Third Year	
APSC 452	**3**
APSC 456	**3**
EECE 314	**3**
EECE 331	**3**
EECE 352	**3**
EECE 353	**3**
EECE 359	**3**

Present Calendar Entry:

Biomedical Engineering Option:
…

Type of Action: Revise calendar statement to include third year of program.

Rationale: Addition of Third Year course requirements, following on from Second Year offered for the first time in 06W. This is an updated version of the third year of the EE biomedical engineering option that was approved last year. New course APSC 452 replaces HKIN 190.

EECE 360 **3** **EECE 364** **4** **EECE 374** **4** **STAT 251** **3** **Complementary Studies Electives** **3** **Total Credits** **38** **[1] See Complementary Studies Courses, p. 97.** **[2] To be chosen from a list of electives available from the Department.**	Document ID#: n/a as this program was approved in its entirety Spring 2006
EECE Undergraduate New Course(s)	
Effective Date: September 2007. **EECE 300 (3) MOLECULES TO MECHANISMS. Forces, scaling, thermal, fluidic and mechanical properties relevant to the design of emerging devices and systems whose basic structures are at micrometer and nanometer scales. [3-0-1]**	URL: n/a Present Calendar Entry: n/a Action: New course. Rationale: To provide basic scientific and engineering principles that are needed to design and implement emerging electromechanical devices whose features and functions reach micrometer and nanometer length scales. Complementary to EECE352, which focuses on electronic properties of materials. Document ID#: EECE UG002
Effective Date: September 2007. Proposed Calendar Entry: **EECE 301 (2) TOPICS IN NANOTECHNOLOGY AND MICROSYSTEMS.** **Guest lectures and preparatory theory will highlight emerging devices and systems. Restricted to students admitted to the Nanotechnology and Microsystems Option in Electrical Engineering. [2-0-0] *Corequisite*: APSC 201.**	URL: n/a Present Calendar Entry: n/a Action: New course. Rationale: To provide an overview of the impact that Nanotechnology and Microsystems is having and can achieve. To present new areas of research and development, and of the concepts that form the basis for the new technologies. To provide technical writing experience. Document ID#: EECE UG003
Effective Date: September 2007. Proposed Calendar Entry: **EECE 400 (6) NANOTECHNOLOGY AND MICROSYSTEMS PROJECT.** **Project involving design, experimental and/or computer simulation work in an area related to nanotechnology and microsystems. Credit is given for one of EECE 400 or EECE 496. Restricted to students admitted to the Nanotechnology and Microsystems option in Electrical Engineering. [0-0-12] *Prerequisite*: Fourth year standing.**	URL: n/a Present Calendar Entry: n/a Action: New course. Rationale: To provide students registered in the Nanotechnology and Microsystems option with capstone projects in their areas of specialization. Document ID#: EECE UG004
Effective Date: September 2007. Proposed Calendar Entry:	URL: n/a Present Calendar Entry: n/a

EECE 401 (3) NANOTECHNOLOGY IN ELECTRONICS. **Covers topics of special importance to understanding and designing electronic devices in which quantum effects and the discrete nature of matter become important. [3-0-0] *Prerequisites*: One of EECE 352, PHYS 350, PHYS 304, CHEM 312, or *Corequisite*: MTRL 478.**	Action: New course. Rationale: To provide students with an understanding of how nano-electronic devices are designed by explaining their performance in terms of the underlying physical descriptions. The course prepares students with the fundamentals to deal with innovations in electronics that will occur over the course of their careers. The course complements EECE 480 which covers current electronic devices. Document ID#: EECE UG005
Effective Date: September 2007. Proposed Calendar Entry: **EECE 402 (3) SENSORS AND ACTUATORS IN MICROSYSTEMS.** **The mechanisms, design, fabrication and testing of microsensors, actuators and microelectromechanical systems (MEMS). [3-0-0]**	URL: n/a Present Calendar Entry: n/a Action: New course. Rationale: An in-depth course in the principles used in microsensors and microelectromechanical systems, including design, fabrication and testing considerations. Document ID#: EECE UG006
Effective Date: September 2007. Proposed Calendar Entry: **EECE 403 (3) MICRO/NANOFABRICATION AND INSTRUMENTATION LABORATORY.** **Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Restricted to students admitted to the Nanotechnology and Microsystems Option in Electrical Engineering. [1-4-0]**	URL: n/a Present Calendar Entry: n/a Action: New course. Rationale: To expose students to fabrication on the micrometer and nanometer scales, as well as to imaging and measurement of devices with micrometer and nanometer scale features. Document ID#: EECE UG007
Effective Date: September 2007. Proposed Calendar Entry: **EECE 404 (3) NANOTECHNOLOGY AND NATURE.** **Examples of nature's fabrication methods, sensors, actuators, energy harvesting, signaling and information processing, and comparisons with artificial methods. [3-0-0]**	URL: n/a Present Calendar Entry: n/a Action: New course. Rationale: To provide students with an understanding of how nature's nano-devices work by explaining their performance in terms of the underlying physical and statistical models. Document ID#: EECE UG008

FACULTY OF APPLIED SCIENCE (ENGINEERING)
CATEGORY 1 UNDERGRADUATE CURRICULUM REPORT

FALL 2006

Department: ENGINEERING PHYSICS Faculty Approval Date: November 9, 2006	Contact Person: Dr. Andre Marziali Phone: 2-5489 Email: andre@physics.ubc.ca
ENPH Undergraduate Program Change(s)	
Effective Date: September 2007.	URL: http://www.students.ubc.ca/calendar/index.cfm?tree=12,195,272,40

Proposed Calendar Entry:

Engineering Physics

Fifth Year

…

Mechanical Option

EECE 360	**3**
EECE 485	3
MECH 325	**4**
MECH 326	**3**
MECH 328	**3**
Technical electives relevant to Mechanical Engineering[1]	**3**

Mechatronic Science Option

EECE 485	**3**
MECH 325	**4**
MECH 326	**3**
MECH 420	**3**
MECH 422	**3**
Technical electives relevant to Mechanical Engineering[1]	**3**
Total Credits Computer Science Option	40
Total Credits Electrical Option	41
Total Credits Mechanical Option	38
Total Credits Mechatronic Science Option	**38**

[1] Chosen in consultation with the director.

Present Calendar Entry:

Engineering Physics

Fifth Year

…

Mechanical Option

EECE 485	3
~~MECH 327~~	~~3~~
~~MECH 375~~	~~3~~
~~MECH 466~~	~~4~~
Technical electives relevant to Mechanical Engineering[1]	~~6~~
Total Credits Computer Science Option	40
Total Credits Electrical Option	41
Total Credits Mechanical Option	38

[1] Chosen in consultation with the director.

Type of Action: Revise option core and total credits for Mechanical Option; add Fifth Year Mechatronic Science Option.

Rationale: As required due to course offering changes in the Department of Mechanical Engineering. Addition of Fifth Year Mechatronic Science course requirements, following on from Fourth Year Mechatronic Science Option offered for the first time in 06W.

Document ID#: n/a – approved previously

FACULTY OF APPLIED SCIENCE (ENGINEERING)
CATEGORY 1 UNDERGRADUATE CURRICULUM REPORT

FALL 2006

Department: MECHANICAL ENGINEERING Faculty Approval Date: November 9, 2006	Contact Person: Dr. Sheldon Green Phone: 2-5562 Email: green@mech.ubc.ca
MECH Undergraduate New Program (s)	
Effective Date: September 2007. MECHANICAL ENGINEERING http://www.students.ubc.ca/calendar/index.cfm?tree=12,195,272,43 *To be follow the 4th Year Mechanical Engineering Program and precede the Mechatronics Option:* Proposed Calendar Entry: **BIOMEDICAL ENGINEERING OPTION** **Students who satisfactorily complete the following program will be given recognition as receiving the Bachelor of Applied Science in Mechanical Engineering (Biomedical Engineering Option). To complete this option, students must take the program listed below. Students accepted into this option may also apply for acceptance into the UBC Coop Engineering Program. Enrollment in this option is limited.**	URL: n/a Present Calendar Entry: n/a Type of Action: New option. Rationale: There has been considerable growth of the North American and world biomedical and biotechnology sectors. This option would be similar to the Thermofluids and Mechatronics options in that it would provide a concentration and structure to the Mechanical Engineering degree. The program will help attract talented students to UBC, Applied Science and Mechanical Engineering. Document ID#: MECH UG001

Third Year	
APSC 452	**3**
EECE 365	**3**
MECH 305	**6**
MECH 325	**4**
MECH 326	**3**
MECH 328	**3**
MECH 360	**3**
MECH 364	**4**
MECH 375	**3**
MECH 380	**3**
MTRL 495	**3**
Total Credits	**38**
Fourth Year	
APSC 450	**2**
APSC 456	**3**
EECE 485	**3**
MECH 431[2]	**3**
MECH 439	**1**
MECH 459	**6**

MECH 466 4 **One of MECH 410, MECH 435, MECH 436** 3 **Technical Electives[3]** 9 **Complementary Studies Electives[4]** 6 **Total Credits** 40 **[1] Taken prior to Term 1 of second year.** **[2] Students who complete all of COMM 457 and COMM 473 will substitute an additional three credits of Technical Electives[3] in place of MECH 431.** **[3] To be chosen from a course list available in the Department Office.** **[4] See *Complementary Studies Courses*.**	
MECH Undergraduate New Course(s)	
Effective Date: September 2007. Proposed Calendar Entry: **MECH 305 (6) DATA ANALYSIS AND MECHANICAL ENGINEERING LABORATORIES. The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, and fluid dynamics. Instrumentation, data acquisition and data manipulation using modern computational tools. Common mechanical devices. [3-6-0] *Prerequisite:* All of MECH 220, MECH 221, MECH 222, MECH 223.**	URL: n/a Present Calendar Entry: n/a Type of Action: New course. Rationale: This course replaces MECH 304 and MECH 430 by combining course content. Document ID#: MECH UG002
Effective Date: September 2007. Proposed Calendar Entry: **MECH 306 (4) DATA ANALYSIS AND MECHATRONICS LABORATORIES.** **The use of probability and statistical methods for engineering applications. Mechanics of materials and heat transfer. Instrumentation, data acquisition and data manipulation using modern computational tools. Common mechanical devices. For students in Mechatronics option only. [3-3*-0] *Prerequisite:* All of MECH 220, MECH 221, MECH 222, MECH 223.**	URL: n/a Present Calendar Entry: n/a Type of Action: New course. Rationale: This course replaces MECH 303 and MECH 430 by combining course content. Document ID#: MECH UG003
Effective Date: September 2007. Proposed Calendar Entry: **MECH 439 (1) BIOMECHANICS RESEARCH. Seminar in Biomechanics research. [1-0-0]**	URL: n/a Present Calendar Entry: n/a Type of Action: New Course. Rationale: To provide students registered in the Biomedical Engineering option in Mechanical Engineering a background in and familiarity with the methods, results and impact of biomechanical research that is ongoing at UBC. Document ID#: MECH UG004

FALL 2006

Effective Date: September 2007. Proposed Calendar Entry: **MECH 459 (6) BIOMEDICAL DESIGN PROJECT. A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. For students in the Biomedical Option only. [1-2-2; 1-2-2]** ***Prerequisite:*** **Completion of 3rd year Biomedical Option in Mechanical Engineering.**	URL: n/a Present Calendar Entry: n/a Type of Action: New course. Rationale: This senior design project course, similar to the other MECH 45X courses, will have a biomedical focus and be specific to the Biomedical option. Document ID#: MECH UG005

[JDWM1]300 and 301 are new courses specific to the option, made possible by removing the requirement for taking EECE 361 and 314.
[JDWM2]This project course replaces 496. 474 has been removed.
[JDWM3]401/402/403 are new required courses.
[JDWM4]At present this list includes EECE 404[JDWM4] (a new course described below), EECE 479, EECE 480, EECE 482, EECE 488, EECE432 and selected EECE 490[JDWM4] courses as well as approved courses from other departments.

THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

16 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **FACULTY OF ARTS CURRICULUM REPORT**

Attached please find the recommended Category 1 undergraduate curriculum proposals from the Faculty of Arts.

1) The following new courses:

a.	**ASIA 356** (3)	Korean Cinema
b.	**ASIA 376** (3)	The Sikhs: Formations, Contexts, and Historical Development
c.	**ASIA 405** (3)	The Interaction of Science, Religion, and Philosophy in East Asia
d.	**ASIA 448** (3)	Narrative and Performance in South Asia
e.	**ASIA 466** (3)	The History of Christianity in Asia
f.	**ASIA 476** (3-9) D	Topics in Sikh and South Asian Studies
g.	**ASIA 477** (3)	New Religious Movements of East Asia
h.	**ASIA 484** (3)	The History of the Choson Dynasty
i.	**ASIA 485** (3)	Inventing Asian Religions in the West/East Encounter
j.	**PUNJ 301** (3)	Third-Year Punjabi (Part I)
k.	**PUNJ 302** (3)	Third-Year Punjabi (Part II)
l.	**NEST 311** (3)	Prehistoric Egypt
m.	**NEST 312** (3)	Religion in Ancient Egypt
n.	**NEST 313** (3)	Introduction to Middle Egyptian
o.	**SPAN 308** (3)	Spanish for Business
p.	**HIST 367** (3)	Europe in the Age of Enlightenment
q.	**HIST 396** (3)	Environmental History of North America
r.	**HIST 467** (3)	Topics in Indigenous History of the United States
s.	**HIST 486** (3)	Topics in Comparative Indigenous History
t.	**MUSC 105** (1)	Musicianship I
u.	**MUSC 106** (1)	Musicianship II
v.	**MUSC 205** (1)	Musicianship III
w.	**MUSC 206** (1)	Musicianship IV
x.	**MUSC 444** (3)	Establishing a Career in Music
y.	**PSYC 307** (3)	Cultural Psychology
z.	**PSYC 311** (3)	Psychology of Sport
aa.	**PSYC 358** (3)	Evolutionary Psychology
bb.	**PSYC 400** (6)	Clinical Psychology: A Health Profession
cc.	**PSYC 407** (3)	Cognition and Culture

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** **Effective Session** 2007S **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 356 (3) KOREAN CINEMA Introduction to the work of the major film makers.	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** Responding to students' request for a Korean counterpart to our existing Japanese film course (ASIA 354: Introduction to Japanese Cinema) and Chinese film course (ASIA 355: Chinese Cinema).

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 376 (3) THE SIKHS: FORMATIONS, CONTEXTS, AND HISTORICAL DEVELOPMENT An introduction to the historical development of Sikh traditions in India and Diaspora, from the 15th century to the present, with attention to broader historical contexts.	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** By offering a basic introductory class on the Sikhs in one semester we hope to promote the class as a high-enrollment course in the Department and that a one-semester introductory course on the Sikhs will increase student interest in South Asian and Sikh studies more generally.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** April 13, 2006 **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 405 (3) THE INTERACTION OF SCIENCE, RELIGION AND PHILOSOPHY IN EAST ASIA The influence of Confucianism, Buddhism, Daoism and Christianity on the way peoples of East Asia understood and manipulated the natural world, focusing on the natural sciences.	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** Confucianism and the various religious traditions in East Asian cultures not only influenced the way Chinese, Koreans, and Japanese thought about ethics and the supernatural realm, they also influenced the way they have viewed the natural world. This course will help students understand East Asian cultures today, from its Qigong teachers and surgeons in the biomedical tradition to geomancers and modern geographers, by introducing them to both traditional and modern approaches to natural phenomena. It will supplement already existing courses on the political, religious, and literary histories of those cultures, giving our students a broader understanding of East Asian civilization.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 22, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 448 (3) NARRATIVE AND PERFORMANCE IN SOUTH ASIA Key theoretical issues in the production of stories and their enactment in traditional and modern South Asian cultures. Intended for advanced undergraduates in South Asian narrative and performance theory. *Credit will not be granted for both ASIA 448 and ASIA 548	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** To make an undergraduate equivalent to ASIA 548 (previously known as ASIA 547), a graduate seminar on narrative theory in South Asia, suitable for advanced students interested in pursuing a graduate degree in South Asian studies.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** April 13, 2006 **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 466 (3) THE HISTORY OF CHRISTIANITY IN ASIA A survey of Christian proselytizing drives in South, Southeast and East Asia, focusing on the period since 1500 and the reasons for successes (the Philippines and Korea, for example) and failures (Japan). Credit will not be granted for both ASIA 466 and ASIA 566	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New courses **Rationale:** Often, when students study Asian cultures, they learn a lot about the traditional philosophies and religions of Asia but little about Christianity in Asia, other than a passing acquaintance with the the so-called "Christian century" in 16th century Japan and the arrival of Matteo Ricci and his fellow Jesuits in early 17th century China. Yet in the 21st century Christianity has become an Asian religion, one that plays a major role in South Korea, the Philippines, and East Timor, is a significant cultural force in parts of China and South Asia, and maintains a presence in almost all of the rest of Asia. This course is needed to give our students a more balanced view of the beliefs and values of the peoples of Asia today.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 476 (3-9) D TOPICS IN SIKH AND SOUTH ASIAN STUDIES Seminar class designed to explore current scholarly debates in South Asian and Sikh Studies. May be repeated for credit with permission of instructor. Credit will not be granted for both ASIA 476 and ASIA 576	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** To provide an opportunity to build advanced student interest in South Asia and the Sikhs, in a smaller seminar format. I would hope to have both advanced undergraduates and graduate students in this class. Topics may vary, so repetition of the course is possible with the permission of the instructor (to ensure that course content is sufficiently different). The syllabus provided is therefore exemplary of the kind of course that would be offered.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** April 13, 2006 **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** September 20, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 477 (3) NEW RELIGIOUS MOVEMENTS OF EAST ASIA Examines the rise of new religious movements in China, Japan and Korea over the last two centuries, from the Taiping, Tonghak, and Tenri-kyo to the Unification Church, SGI International and Falun Gong. Credit will not be granted for both ASIA 477 and ASIA 577	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New courses **Rationale:** Classes on the history of modern East Asia usually focus on the political, social, and economic changes East Asian societies have undergone under the impact of modernization and globalization. Few classes bother to look at another important area of change, religious culture. Yet changes in the religious sphere are as dramatic as they are in politics, society, and the economy. One example of the changes in East Asian religions has been the rise of new religious movements over the last couple of centuries. These new religions represent attempts to protect traditional values by cloaking them in modern dress. They usually represent assertions of traditional values in modern language and through modern institutions, a compromise between the need to feel pride in the accomplishments of ancestors and the need to feel as modern as people elsewhere on earth. Studying new religions is therefore a useful way to explore one way the peoples of East Asia have modernized tradition and therefore preserved their cultural identity despite the homogenizing pressure of globalization.

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UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** April 13, 2006 **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 484 (3) THE HISTORY OF THE CHOSON DYNASTY Political, social and cultural history of Korea's Choson dynasty, focusing on how it lasted from 1392 to 1910 and why it collapsed so quickly at the beginning of the twentieth century. Credit will not be granted for both ASIA 484 and ASIA 584	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** The Choson dynasty was not only Korea's longest dynasty, its ruling family stayed on the throne longer than any other Asian ruling family over the last two millennia. Moreover, it was under the Choson dynasty that classical Korean culture assumed the shape we know today. In addition, since the Choson dynasty was the last Korean dynasty before the modern era, it greatly influenced how Korea responded to the challenges of the modern world. For all these reasons, a course on this history of the Choson dynasty is an essential part of our Korean studies program. Modern Korean history and culture cannot be understood without an understanding of the history of the Choson dynasty.

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UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: ASIA 485 (3) INVENTING ASIAN RELIGIONS IN THE WEST/EAST ENCOUNTER An examination of how western imperial expansion transformed the descriptions and practices of Asian traditions through systems of classification, missionaries, discovery of languages, modernity and fragmentation.	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New courses **Rationale:** We have courses on the books that look at Asian religious traditions in isolation. This course seeks to critically show the interconnections and transformations that occurred within Asian religious discourse when faced with both the power and knowledge systems of the west.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department:** Asian Studies **Faculty Approval Date:** **Effective Session** 2007W **Term** 1 **Year** 2007 **for Change**	**Date:** August 15, 2006 **Contact Person:** Maija Scott **Phone:** 822-9266 **Email:** maija@interchange.ubc.ca
Proposed Calendar Entry: PUNJ 301 (3) THIRD-YEAR PUNJABI (PART I) Prose. Introduces popular and literary works in modern Punjabi. Emphasis is on reading and written expression, vocabulary development. Credit will not be granted for both PUNJ 300 and 301.	**URL:** n/a **Present Calendar Entry:** none **Type of Action:** New course **Rationale:** Making the third-year-level of Punjabi available in two 3-credit courses, in addition to the already existing the 6-credit form (offered as PUNJ 300) will possibly encourage more students to take Punjabi at the advanced level. We wish to retain both options (3 credit and 6 credit versions) in order to offer each year the form that seems appropriate for the program as it develops.
Proposed Calendar Entry: PUNJ 302 (3) THIRD-YEAR PUNJABI (PART II) Literature in Punjabi. Emphasis is on reading and written expression, vocabulary development. Credit will not be granted for both PUNJ 300 and 302.	**URL:** none **Present Calendar Entry:** n/a **Type of Action:** New course **Rationale:** Same as above.

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UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: CNERS** **Faculty Approval Date:** **Effective Session winter Term 1 Year 2006 for Change**	**Date: July 12, 2006** **Contact Person: D. Neufeld** **Phone: 2-4065** **Email: dietmar.neufeld@ubc.ca**
Proposed Calendar Entry: NEST 311 (3) Prehistoric Egypt A survey of the development and evolution of prehistoric humans and their material culture in Egypt from the Lower Paleolithic to the Chalcolithic	**URL:** (URL from the current web Calendar – not the draft calendar. This URL is not needed if you are only making changes to individual courses - for course entries simply list the course number.) **Present Calendar Entry: None** (Cut and paste from the current web Calendar.) **Type of Action: New Course** **Rationale:** This undergraduate course will be of great value to students for it provides an essential knowledge and in depth discussion of human material culture of the Near East over from the Old Stone Age to the earliest formation of states and cities. The course will expose students to a wide range of theoretical approaches and will engage them with opinions sometimes greatly different from their own. The students will develop their skills in critical thinking and enhance their competence in analyzing and presenting complex chains of arguments in written and oral form essential for pursuing a doctoral thesis. When you have supporting documents for Category 1 proposals please label each document with the course number, or the name of the program, being proposed.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: CNERS** **Faculty Approval Date:** **Effective Session Winter Term 1** **Year 2006 for Change**	**Date: July 12, 2006** **Contact Person: D. Neufeld** **Phone: 2-4065** **Email: Dietmar.neufeld@ubc.ca**
Proposed Calendar Entry: NEST 312 (3) Religion in Ancient Egypt A survey of the religious beliefs, cults and religious institutions in Pharaonic Egypt.	**URL:** (URL from the current web Calendar – not the draft calendar. This URL is not needed if you are only making changes to individual courses - for course entries simply list the course number.) **Present Calendar Entry: None** (Cut and paste from the current web Calendar.) **Type of Action: New Course** **Rationale:** This course will be of great value to students for it provides an essential knowledge of one of the oldest and longest lasting religions in the world. The course will expose students to a wide range of theoretical approaches and will engage them with opinions sometimes greatly different from their own. The students will develop their skills in critical thinking and enhance their competence in analyzing and presenting complex chains of arguments in written and oral form essential for pursuing a doctoral thesis. When you have supporting documents for Category 1 proposals please label each document with the course number, or the name of the program, being proposed.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: CNERS** **Faculty Approval Date:** **Effective Session Winter Term 1** **Year 2006 for Change**	**Date: July 12, 2006** **Contact Person: D. Neufeld** **Phone: 2-4065** **Email: Dietmar.neufeld@ubc.ca**
Proposed Calendar Entry: NEST 313 (3) Introduction to Middle Egyptian An introduction to the language of Ancient Egypt and to the main literary texts composed during the Middle Kingdom.	**URL:** **Present Calendar Entry: None** **Type of Action: New Course** **Rationale:** This course will be of great value for students in the undergraduate programme in Classical and Near Eastern Archaeology for it provides an essential knowledge of the Egyptian language. The course will expose students to a new field of philology and will thus engage them in a language and writing system supposedly very different from western systems.

UBC Curriculum Proposal Form
Change to Course or Program

Category: 1
New course in SPAN

Faculty: Arts **Department: FHIS** **Faculty Approval Date:** **Effective: Winter Session, Term 1 Year 2005 for Change**	**Date: 17/11/04** **Contact Person: Dr. D. Boccassini** **Phone: 2-4006** **Email: <daniela.boccassini@ubc.ca>**
Proposed Calendar Entry: **SPAN 308 (3)** SPANISH FOR BUSINESS. Pre-requisite: SPAN 202 or 12 credits of Spanish.	**URL:** **Present Calendar Entry:** None **Type of Action:** new course **Rationale**: The growing of Latin American economies during the last decade and the potential that shows its current situation points to this array of countries as a main business and economic target. North American Free Trade Agreement is the best example of the importance of the Spanish-speaking countries in the development of the North American economies. The knowledge of the culture and language of countries with whom Canada is treating will be a considerable asset for our students. This course will be of great value for undergraduate students in the Arts Coop Program, International Relations Program, and Spanish Degrees. ~~It will meet the Language Requirement for the International Business Program.~~ The course will expose the students to the Spanish language from a socio-linguistic point of view in order to understand the cultural and social component in which the language leans on. The students will develop the necessary linguistic skills to be able to study and to conduct business in Hispanic related environments**.**

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UBC Curriculum Proposal Form
Change to Course or Program

Category: (1) **Date: 1 May 2006**

Faculty: Arts Department: History Faculty Approval Date: 1 May 2006 **Effective Session Winter Term 1 Year 2007 for Change**	**Contact Person: Robert McDonald** **Phone: 2-6307** **Email: robertaj@interchange.ubc.ca** **URL:http://students.ubc.ca/calendar/courses.cfm?code=H**
Proposed Calendar Entry: **HIST 367 (3) Europe in the Age of the Enlightenment** **Europe during the age of the Enlightenment, from the end of the religious wars to the French Revolution, with emphasis on political, social, cultural and intellectual changes in their global context.**	**Present Calendar Entry: None** **Type of Action:** Add new course. **Rationale:** As part of a comprehensive reorganization of the History Department=s curriculum, the Europeanists have organized a set of one-term, chronologically-related courses to cover the sweep of European history. The crucial period of the Enlightenment from the mid-seventeenth century to the French Revolution is not currently included in the sequence. History 367 thus fills a gap in this set of courses. See the course syllabus by Dr.Chris Friedrich that accompanies this proposal.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: History** **Faculty Approval Date: 1 May 2006** **Effective Session Winter Term 1 Year 2007 for Change**	**Date: 1 May 2006** **Contact Person: Robert McDonald** **Phone: 2-6307** **Email: robertaj@interchange.ubc.ca**
Proposed Calendar Entry: **HIST 396 (3): Environmental History of North America** **Overview of land use and environmental change in Canada and the United States; examines the ideas and practices that shaped indigenous and non-indigenous resource exploitation, management, and activism to the end of the twentieth century.**	**URL:http://students.ubc.ca/calendar/courses.cfm?code=H** **Present Calendar Entry**: None **Type of Action**: Add a new course **Rationale**: To expand our offerings in a new area that reflects the expertise of newly-hired faculty. This course will be a survey of the major themes and arguments of the new field of environmental history, focusing on North America, where the literature is deep and strong. It will build on some of the issues introduced in the Department's proposed first year course in global environmental history, and will be preparatory for a more in-depth examination of these issues in the Department's fourth-year capstone seminars. See the course syllabus by Dr. Tina Loo entitled "The Environmental History of North America."

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: History** **Faculty Approval Date: 1 May 2006** **Effective Session Winter Term 1 Year 2007 for Change**	**Date: 1 May 2006** **Contact Person: Robert McDonald** **Phone: 2-6307** **Email: robertaj@interchange.ubc.ca**
Proposed Calendar Entry: **History 467 (3): Topics in Indigenous History of the United States.** **Interdisciplinary topics in the history of the United States' Indigenous Peoples from before European contact.** **Pre-requisite: History 302 or other background in the field is recommended.**	**URL:http://students.ubc.ca/calendar/courses.cfm?code=H** **Present Calendar Entry: None** **Type of Action:** Add new course **Rationale for new course:** To expand our offerings in First Nations history based upon the expertise of newly-hired faculty in U.S. Indigenous History. This course will allow for in-depth investigation of major themes and topics in U.S. Indigenous history. It will build upon material covered in history 302 and it will complement the material covered in HIST 466 & HIST 468. See the course syllabus by Dr. Coll Thrush entitled "The Frontier Myth in Modern American Culture"

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: History** **Faculty Approval Date: 1 May 2006** **Effective Session Winter Term 1 Year 2007 for Change**	**Date: 1 May 2006** **Contact Person: Robert McDonald** **Phone: 2-6307** **Email: robertaj@interchange.ubc.ca**
Proposed Calendar Entry: **History 468 (3): Topics in Comparative Indigenous History** **Comparative interdisciplinary analysis of selected topics in Indigenous history in North America and beyond.** **Pre-requisite: History 302 or other background in the field is recommended.**	**URL:http://students.ubc.ca/calendar/courses.cfm?code=H** **Present Calendar Entry: None** **Type of Action:** Add new course **Rationale:** This 4th-year course will promote a more focused-level of comparative analysis that builds upon the comparative survey at the 3rd year level (History 302). The course will offer an extended opportunity for comparative analysis of a wide range of topics including but not limited to national Indian policies, Indigenous activism, identity formation, and environmental change. The title allows for a useful degree of flexibility since the course could be taught as a comparative course in conjunction with a Latin Americanist, or with scholars working even further afield (e.g. Africa, the Pacific, or Asia). Alternately, it could address the histories of a number of specific Indigenous nations, highlighting the diversity of Indigenous histories and of Indigenous responses to colonialism. See the course syllabus by Dr. Paige Raibmon entitled "Seminar in Comparative Indigenous History: Indigenous Identity in Canada and the United States"

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UBC Curriculum Proposal Form
Change to Course or Program

Category: 1

Faculty: Arts **Department: Music** **Faculty Approval Date: XX Sept. 2006** **Effective Session _07W__ Term _1__** **Year___ for Change**	**Date: 15 September 2006** **Contact Person: John Roeder** **Phone: 2-3715** **Email: j.roeder@ubc.ca**
Proposed Calendar Entry: **MUSC 105 (1) Musicianship I** Sight singing; melodic and harmonic dictation; rhythm production; error detection; tuning; perception of harmony, form, and tonality; and improvisation in set idioms. Pass/fail. Restricted to B.Mus. students.	**URL: (none)** **Present Calendar Entry: (None)** **Type of Action:** ADD **Rationale:** For the past couple years, a number of faculty members have been lamenting the decline, or non-improvement, in the levels of musicianship commanded by the mid-range of students in the School. It has been pointed out, for example, that many students are unable to play rhythms correctly, or to sing simple melodies at sight. Part of the reason for this situation is surely the declining state of music in BC secondary schools, but it is also a consequence of the UBC curriculum, which has devoted too few instructional resources (compared to most other music schools) to training students in these skills. To fix these problems, we propose four separate musicianship courses. Each of the courses would end with a barrier examination, to be graded pass/fail. All four courses would be offered each term, allowing students to attempt whichever course was appropriate to their needs at that point. Some students would complete the MUSC 206 barrier examination in less than two years while others would have to repeat courses and could take more than two years to complete the sequence. No one would graduate without passing the MUSC 206 examination. While it would be possible to simply divide the 3 credits now carried by each of Music 100, 101… into 2 + 1, with 2 for each of the reduced theory courses, and one for each new musicianship course, this would be unwise. First, this would fail to recognize the increased workload on students. Second, it would result in theory courses that receive less credit than virtually any comparable course in the university. Third, it would create problems for the B.A. students, whose programs are built on 3-credit courses. For these reasons, we will be recommending that four credits be added to the B.Mus. for these new courses (1 each). Since this would mean a substantial added cost to students, we are proposing that each major in the School be lightened by a few credits (see the accompanying program change proposals). The proportion of non-Music to Music courses in all majors will still exceed that in BMus majors at comparable institutions (e.g. McGill, Toronto).

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: 1

Faculty: Arts **Department: Music** **Faculty Approval Date: XX Sept. 2006** **Effective Session _07W__ Term _1__** **Year___ for Change**	**Date: 15 September 2006** **Contact Person: John Roeder** **Phone: 2-3715** **Email: j.roeder@ubc.ca**
Proposed Calendar Entry: **MUSC 106 (1) Musicianship II** Continuation of MUSC 105. Pass/fail. Restricted to B.Mus. students. *Prerequisite:* MUSC 105 or placement examination.	**URL: (none)** **Present Calendar Entry: (None)** **Type of Action:** ADD **Rationale:** For the past couple years, a number of faculty members have been lamenting the decline, or non-improvement, in the levels of musicianship commanded by the mid-range of students in the School. It has been pointed out, for example, that many students are unable to play rhythms correctly, or to sing simple melodies at sight. Part of the reason for this situation is surely the declining state of music in BC secondary schools, but it is also a consequence of the UBC curriculum, which has devoted too few instructional resources (compared to most other music schools) to training students in these skills. To fix these problems, we propose four separate musicianship courses. Each of the courses would end with a barrier examination, to be graded pass/fail. All four courses would be offered each term, allowing students to attempt whichever course was appropriate to their needs at that point. Some students would complete the MUSC 206 barrier examination in less than two years while others would have to repeat courses and could take more than two years to complete the sequence. No one would graduate without passing the MUSC 206 examination. While it would be possible to simply divide the 3 credits now carried by each of Music 100, 101… into 2 + 1, with 2 for each of the reduced theory courses, and one for each new musicianship course, this would be unwise. First, this would fail to recognize the increased workload on students. Second, it would result in theory courses that receive less credit than virtually any comparable course in the university. Third, it would create problems for the B.A. students, whose programs are built on 3-credit courses. For these reasons, we will be recommending that four credits be added to the B.Mus. for these new courses (1 each). Since this would mean a substantial added cost to students, we are proposing that each major in the School be lightened by a few credits (see the accompanying program change proposals). The proportion of non-Music to Music courses in all majors will still exceed that in BMus majors at comparable institutions (e.g. McGill, Toronto).

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: 1

Faculty: Arts **Department: Music** **Faculty Approval Date: XX Sept. 2006** **Effective Session _07W__ Term _1__** **Year___ for Change**	**Date: 15 September 2006** **Contact Person: John Roeder** **Phone: 2-3715** **Email: j.roeder@ubc.ca**
Proposed Calendar Entry: **MUSC 205 (1) Musicianship III** Continuation of MUSC 106. Pass/fail. Restricted to B.Mus. students. *Prerequisite:* MUSC 106 or placement examination.	**URL: (none)** **Present Calendar Entry: (None)** **Type of Action:** ADD **Rationale:** For the past couple years, a number of faculty members have been lamenting the decline, or non-improvement, in the levels of musicianship commanded by the mid-range of students in the School. It has been pointed out, for example, that many students are unable to play rhythms correctly, or to sing simple melodies at sight. Part of the reason for this situation is surely the declining state of music in BC secondary schools, but it is also a consequence of the UBC curriculum, which has devoted too few instructional resources (compared to most other music schools) to training students in these skills. To fix these problems, we propose four separate musicianship courses. Each of the courses would end with a barrier examination, to be graded pass/fail. All four courses would be offered each term, allowing students to attempt whichever course was appropriate to their needs at that point. Some students would complete the MUSC 206 barrier examination in less than two years while others would have to repeat courses and could take more than two years to complete the sequence. No one would graduate without passing the MUSC 206 examination. While it would be possible to simply divide the 3 credits now carried by each of Music 100, 101… into 2 + 1, with 2 for each of the reduced theory courses, and one for each new musicianship course, this would be unwise. First, this would fail to recognize the increased workload on students. Second, it would result in theory courses that receive less credit than virtually any comparable course in the university. Third, it would create problems for the B.A. students, whose programs are built on 3-credit courses. For these reasons, we will be recommending that four credits be added to the B.Mus. for these new courses (1 each). Since this would mean a substantial added cost to students, we are proposing that each major in the School be lightened by a few credits (see the accompanying program change proposals). The proportion of non-Music to Music courses in all majors will still exceed that in BMus majors at comparable institutions (e.g. McGill, Toronto).

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: 1

Faculty: Arts **Department: Music** **Faculty Approval Date: XX Sept. 2006** **Effective Session _07W__ Term _1__** **Year___ for Change**	**Date: 15 September 2006** **Contact Person: John Roeder** **Phone: 2-3715** **Email: j.roeder@ubc.ca**
Proposed Calendar Entry: **MUSC 206 (1) Musicianship IV** Continuation of MUSC 205. Pass/fail. Restricted to B.Mus. students. *Prerequisite:* MUSC 205.	**URL: (none)** **Present Calendar Entry: (None)** **Type of Action:** ADD **Rationale:** For the past couple years, a number of faculty members have been lamenting the decline, or non-improvement, in the levels of musicianship commanded by the mid-range of students in the School. It has been pointed out, for example, that many students are unable to play rhythms correctly, or to sing simple melodies at sight. Part of the reason for this situation is surely the declining state of music in BC secondary schools, but it is also a consequence of the UBC curriculum, which has devoted too few instructional resources (compared to most other music schools) to training students in these skills. To fix these problems, we propose four separate musicianship courses. Each of the courses would end with a barrier examination, to be graded pass/fail. All four courses would be offered each term, allowing students to attempt whichever course was appropriate to their needs at that point. Some students would complete the MUSC 206 barrier examination in less than two years while others would have to repeat courses and could take more than two years to complete the sequence. No one would graduate without passing the MUSC 206 examination. While it would be possible to simply divide the 3 credits now carried by each of Music 100, 101… into 2 + 1, with 2 for each of the reduced theory courses, and one for each new musicianship course, this would be unwise. First, this would fail to recognize the increased workload on students. Second, it would result in theory courses that receive less credit than virtually any comparable course in the university. Third, it would create problems for the B.A. students, whose programs are built on 3-credit courses. For these reasons, we will be recommending that four credits be added to the B.Mus. for these new courses (1 each). Since this would mean a substantial added cost to students, we are proposing that each major in the School be lightened by a few credits (see the accompanying program change proposals). The proportion of non-Music to Music courses in all majors will still exceed that in BMus majors at comparable institutions (e.g. McGill, Toronto).

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: 1

Faculty: Arts **Department: Music** **Faculty Approval Date:** **Effective Session _06W___ Term _2__ Year___ for Change**	**Date: 1 February 2006** **Contact Person: John Roeder** **Phone: 2-3715** **Email: j.roeder@ubc.ca**
Proposed Calendar Entry: MUSC 444 (3) Establishing a Career in Music Best practices of the contemporary business of music, focusing on understanding present market conditions, and on targeting specific opportunities through grant-writing, resumes, press kits, publicity, recordings, and marketing. Restricted to fourth-year B.Mus. students.	**URL:** **Present Calendar Entry:** (none) **Type of Action:** (Add new course) **Rationale:** As a professional school, Music has an obligation to prepare B.Mus. students for the performing, teaching, and entrepreneurial activities of a musical career. The success of freelance musicians depends on their abilities not only to play and teach but also to create opportunities, manage their financial affairs, and effectively publicize their talents. For the last several years we have taught these skills in a one-term, special-topics course which has been fully enrolled and favorably reviewed. We are now willing to reallocate existing resources in order to make this course a regular fixture of our curriculum. It is numbered as a fourth-year course to indicate that it is intended for experienced students who know their skill sets and who will soon join the musical profession.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: Psychology** **Faculty Approval Date:** **Effective Session: Winter; Term: 1;** **Year for Change: 2007**	**Date: July, 2006** **Contact Person: Tannis MacBeth** **Phone: 822-4826** **Email: tmacbeth@psych.ubc.ca**
Proposed Calendar Entry: **PSYC 307 (3)** CULTURAL PSYCHOLOGY. Cultural influences on human thought and behavior; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Prerequisite: Either (a) PSYC 100 or (b) all of PSYC 101, PSYC 102, or (c) six credits of 200-level Psychology (but not 205 or 263).	**Present Calendar Entry:** none **Type of Action:** New course **Rationale:** PSYC 307 will focus on cultural psychology. Currently, cultural psychology has only been taught as an advanced undergraduate seminar (PSYC 407). Since that course was first proposed, there has been much expansion in the field, textbooks are available, and there has been considerable interest among students, making a larger lecture course warranted. The former course 407 is now being proposed as a more advanced course that will not overlap with 307, with 307 as prerequisite for 407. Several faculty members in the Psychology Department are experts in cultural psychology. This topic is briefly introduced in PSYC 100 (Introductory Psychology), but will be covered in this proposed course in much greater depth. **ID Number for Supporting Documents**: PSYC 307-NEW

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: Psychology** **Faculty Approval Date:** **Effective Session: Summer; Term: 1;** **Year for Change: 2007**	**Date: September, 2006** **Contact Person: Tannis MacBeth** **Phone: 822-4826** **Email: tmacbeth@psych.ubc.ca**
Proposed Calendar Entry: **PSYC 311 (3)** PSYCHOLOGY OF SPORT. Psychological theory, research, and skills training related to sport performance, exercise motivation, and adherence. Prerequisite: Either (a) PSYC 100 or (b) all of PSYC 101, PSYC 102. Credit will not be given for both PSYC 311 and HKIN 231 or HKIN 364.	**Present Calendar Entry:** none **Type of Action:** New course **Rationale:** This course has been offered 3 times as a special topic under PSYC 205, Contemporary Issues in Psychology, and has been full each time (80 to 100 students). We now want to offer it regularly as a more advanced stand-alone 3rd year course, with its own title and calendar entry, so that Psychology Honours, Majors, and Minors may have it credited toward their degree requirements. Students will need some background in psychological principles, hence the requirement of Introductory Psychology as a prerequisite, as is the case for our other third year courses. When we offered it under PSYC 205, this course had no prerequisite and assumed no background in Psychology. Human Kinetics offers a similar course (HKIN 231) Sport and Exercise Psychology (equivalent to HKIN 364, which was offered in the past). It is restricted first to second year Human Kinetics students, with a waitlist for others only if space becomes available. **ID Number for Supporting Documents**: PSYC 311-NEW

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: Psychology** **Faculty Approval Date:** **Effective Session: Winter** **Term: 1** **Year for Change: 2007**	**Date: July, 2006** **Contact Person: Tannis MacBeth** **Phone: 822-4826** **Email: tmacbeth@psych.ubc.ca**
Proposed Calendar Entry: **PSYC 358 (3)** EVOLUTIONARY PSYCHOLOGY. Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Prerequisite: Either (a) PSYC 100 or (b) all of PSYC 101, PSYC 102, or (c) six credits of 200-level Psychology (but not 205 or 263).	**Present Calendar Entry:** none **Type of Action:** New course **Rationale:** Evolutionary Psychology is an increasingly important area of theory and research within psychology. Many universities regularly offer undergraduate courses on evolutionary psychology (and some offer graduate programs as well). These courses have proven to be both popular and helpful in preparing students for graduate study. There is currently no such course in UBC's undergraduate curriculum. **ID Number for Supporting Documents**: PSYC 358-NEW

UBC Curriculum Proposal Form
Change to Course or Program

Category (1)

Faculty: Arts **Department: Psychology** **Faculty Approval Date:** **Effective session: Winter** **Terms: 1 and 2** **Year for Change: 2007**	**Date: July, 2006** **Contact person: Tannis MacBeth** **Phone: 822-4826** **e-mail: tmacbeth@psych.ubc.ca**
Proposed Calendar Entry: **PSYC 400 (6)** CLINICAL PSYCHOLOGY: A HEALTH PROFESSION. Theory, research, practice, and professional issues in clinical psychology, including a practicum placement. Prerequisite: PSYC 300. Credit will not be given for both PSYC 400 and PSYC 401.	**Present Calendar Entry:** none **Type of action:** new course **Rationale:** We have been using a single course number (PSYC 401, Introduction to Clinical Psychology) to describe both (a) a 1-term 3-credit course that is strictly classroom based and (b) a 2-term 6-credit course that includes a community practicum placement. Students have frequently been confused and some have enrolled in a course they didn't want to take because the use of the same course number prevented us from describing the differences between 401a and 401b. This new course, PSYC 400 (Clinical Psychology: A Health Profession), will focus on clinical psychology as a field of research *and* on the profession. It is unique because it blends classroom learning with a practicum placement and thus has a co-op character. Students acquire knowledge and skill in the field so as to prepare for careers in, and/or further graduate training in psychology or other helping professions. Some of the content (theory and research) overlaps with PSYC 401 (now a 1-term 3 credit course that is strictly classroom based). Unique to PSYC 400 is the added practicum component. Credit will therefore not be given for both PSYC 400 and PSYC 401. **ID number for supporting documents:** PSYC 400-new

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Arts **Department: Psychology** **Faculty Approval Date:** **Effective Session: Winter; Term: 1;** **Year for Change: 2007**	**Date: August, 2006** **Contact Person: Tannis MacBeth** **Phone: 822-4826** **Email: tmacbeth@psych.ubc.ca**
Proposed Calendar Entry: **PSYC 407 (3)** COGNITION AND CULTURE. Cultural learning; cultural variation and universality in cognition and emotion; cognitive and emotional bases of cultural phenomena. Prerequisite: One of PSYC 307 or PSYC 308 or permission of the instructor.	**Present Calendar Entry:** **PSYC 407 (3)** CULTURAL PSYCHOLOGY. Cultural influences on human thought; interactions of culture and self, cultural differences in ways of thinking, multicultural experiences, and methodological issues. Prerequisite: PSYC 308. **Type of Action:** Change to title and content. **Rationale:** PSYC 407 will now focus on cognition and culture. The previous version covered the broader topic of cultural psychology, which is now being proposed as a third year lecture course (PSYC 307; Cultural Psychology). This new PSYC 407 will focus specifically on the cognitive and emotional bases of cultural phenomena, cultural variation and universality in cognition and emotion, cultural learning, and on cultural evolution. Unlike 307, the readings for this course will all be original articles, and the readings will be discussed in an advanced seminar format. Either PSYC 307 or 308 is a prerequisite for 407, as some of the foundational ideas of culture and cognition are introduced in those courses, although they are not discussed to the extent that they will be explored in 407. Several faculty members in the department are experts in culture and cognition. **ID Number for Supporting Documents**: PSYC 407 - NEW

THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

16 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **FACULTY OF COMMERCE & BUS. ADMIN. CURRICULUM REPORT**

Attached please find the recommended Category 1 undergraduate curriculum proposals from the Faculty of Commerce and Business Administration.

1) The following program change:
   a. **Human Resources Management** option in the **Bachelor of Commerce** program.

2) The following new and changed courses:

a.	**COHR 301** (1.5)	Critical Thinking: Values
b.	**COHR 302** (1.5)	Critical Thinking: Information
c.	**COHR 303** (1.5)	Recruiting and Selection
d.	**COHR 304** (1.5)	Training and Development
e.	**COHR 305** (1.5)	Compensation
f.	**COHR 306** (1.5)	Performance Management
g.	**COHR 307** (1.5)	Introduction to Organizational Consulting
h.	**COHR 308** (1.5)	Collective Agreement Administration
i.	**COHR 309** (1.5)	Collective Negotiations
j.	**COHR 310** (1.5)	Industrial Relations in an Era of Globalization
k.	**COHR 311** (1.5)	Organizational Analysis
l.	**COHR 401** (1.5)	Organizational Change
m.	**COHR 402** (1.5)	Leadership
n.	**COHR 403** (1.5)	Managing Diversity
o.	**COHR 404** (1.5)	Power and Politics
p.	**COHR 405** (1.5)	Managing the Family Business
q.	**COHR 406** (1.5)	International Human Resource Management
r.	**COHR 407** (1.5)	Advanced Organizational Consulting
s.	**COHR 408** (1.5)	Organizational Design
t.	**COHR 409** (1.5)	Creativity and Innovation
u.	**COHR 410** (1.5)	Knowledge Management
v.	**COHR 411** (1.5)	Managing and Building Teams
w.	**COHR 412** (1.5)	Advanced Topics in Organizational Behavior
x.	**COHR 433** (1.5)	Employment Law A
y.	**COHR 434** (1.5)	Employment Law B

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Commerce and Business Administration **Department: OBHR** **Faculty Approval Date: March 21, 2006** **Effective Session _06W_ Term __1_ Year__2006-2007_ for Change**	**Date: January 26, 2006** **Contact Person: Pam Lim** **Phone: 2-8447** **Email: pam.lim@sauder.ubc.ca**
Proposed Calendar Entry: **Third and Fourth Year** The Human Resources Management option requires that students complete: • COHR 301, 302; and • One of the following series: Human Resource Management: o COHR 303, 304, 305, 306, 433, 434; and o 3 credits from COHR 307, 308, 309, 310, 311, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412 or Organizational Consulting: o COHR 306, 307, 401 o COHR 309 and 310; or COHR 433 and 434; and o 4.5 credits from COHR 303, 304, 305, 308, 311, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412 or Labour-Management Relations: o COHR 308, 309, 310, 433, 434; and o 4.5 credits from COHR 303, 304, 305, 306, 307, 311, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,199,295,138 **Present Calendar Entry:** **Third Year** Third year of this option requires that students complete: • COMM 327, 328 • nine credits of electives including three credits of non-Commerce electives. **Fourth Year** Fourth year of this option requires that students complete: • COMM 421, 425, 428 • 15 credits of electives including six credits of non-Commerce electives. **Type of Action:** Change option requirements **Rationale:** Provide students with greater alternatives, while also allowing more specialization within the HR area for those who seek more depth.

or Employment Relations: o COHR 307, 401, 433, 434 o Two of COHR 303, 304, 305, 306 o Two of COHR 308, 309, 310	
Proposed Calendar Entry: **COHR 301 (1.5) Critical Thinking: Values** Balancing organizational, personal, and community interests in a global economy. In addition to standard management textbooks and readings, the class will draw from the work of poets, fiction writers, essayists, and social critics. *Prerequisite:* COMM 292, COMM 392 **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New course **Rationale:** Redesign of option requirements
Proposed Calendar Entry: **COHR 302 (1.5) Critical Thinking: Information** Strategies to critically evaluate information relevant to Human Resource Managers. This course will examine common errors in logic, decision biases, and cause and effect relationships. *Prerequisite:* All of COMM 291, COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New course **Rationale:** Redesign of option requirements
Proposed Calendar Entry: **COHR 303 (1.5) Recruiting and Selection** Management activities, policies and practices required for effectively recruiting and selecting employees for organizations. *Prerequisite:* COMM 292, COMM 392 **[3-0-0]** **COHR 304 (1.5) Training and Development** Management activities, policies and practices required for designing effective training programs and increasing employees' ability to contribute to the organization. *Prerequisite:* COMM 292, COMM 392 **[3-0-0]**	**URL:** **Present Calendar Entry:** COMM 327 (3) **Human Resource Management** Introduction to activities, policies and practices required for effective human resource planning, external factors that influence human resource management. *Prerequisite:* COMM 292, COMM 392 **Type of Action:** Change **Rationale:** Redesign of option requirements

Proposed Calendar Entry: **COHR 305 (1.5) Compensation** Management activities, policies and practices required for effectively compensating and motivating individuals and teams in organizations. *Prerequisite:* COMM 292, COMM 392 **[3-0-0]** **COHR 306 (1.5) Performance Management** Activities, policies and practices required for evaluating and managing employee performance. *Prerequisite:* COMM 292, COMM 392 **[3-0-0]**	**URL:** **Present Calendar Entry:** None. **Type of Action:** New Courses **Rationale:** Redesign of option requirements
Proposed Calendar Entry: **COHR 307 (1.5) Introduction to Organizational Consulting** Frameworks from the social sciences useful for understanding organizational processes and how to apply these frameworks to particular organizational consulting challenges. Prerequisite: COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area.
Proposed Calendar Entry: **COHR 308 (1.5) Collective Agreement Administration** An introduction to the theory and practice of collective agreement administration and dispute resolution mechanisms. Prerequisite: COMM 292, COMM 392 **[3-0-0]**	**URL:** **Present Calendar Entry:** None **Type of Action:** New course **Rationale:** Redesign of option requirements

Proposed Calendar Entry: **COHR 309 (1.5) Collective Negotiations** Exploration of the structural, behavioural, and substantive aspects of negotiations with an emphasis on the development of negotiating skills to resolve conflicts and disputes. *Prerequisite:* COMM 292, COMM 392. **[3-0-0]** **COHR 310 (1.5) Industrial Relations in an Era of Globalization** Comprehensive examination of the Canadian industrial relations system, and its legal foundations, in the context of a global economy. *Prerequisite:* COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** COMM 421 (3) **Collective Bargaining** Structural, behavioural, legal and substantive aspects of labour management relations and the collective bargaining process. *Prerequisite:* COMM 392. **Type of Action:** Change **Rationale:** Redesign of option requirements
Proposed Calendar Entry: **COHR 311 (1.5) Organizational Analysis** An analysis of organizational structures and intraorganizational processes; effects of organizational factors on individual behaviour. Prerequisite: COMM 292, COMM 392 **[3-0-0]**	**URL:** **Present Calendar Entry:** COMM 320 (3) Organizational Analysis An analysis of organizational structures and intraorganizational processes; effects of organizational factors on individual behaviour. Prerequisite: COMM 292. **Type of Action:** Reduce credits **Rationale:** Redesign of option requirements
Proposed Calendar Entry: **COHR 401 (1.5) Organizational Change** The tactics and strategies for implementing constructive modifications in organizations. Prerequisite: COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** COMM 426 (3) Organizational Development The tactics and strategies for implementing constructive modifications in organizations. Interpersonal relations skill building is emphasized in classroom activities, while lectures and assignments explore applications in business and non-business organizations. Prerequisite: COMM 292. **Type of Action:** Reduce credits and change name **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources consulting area.

Proposed Calendar Entry: **COHR 402 (1.5) Leadership** Explores the characteristics of effective leadership and examines how to be a better leader. Prerequisite: COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students as they think about managing others.
Proposed Calendar Entry: **COHR 403 (1.5) Managing Diversity** Explores the business and legal cases for diversity in the workplace. Examines how to effectively manage a diverse work force. Prerequisite: COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area.
Proposed Calendar Entry: **COHR 404 (1.5) Power and Politics** Examines the sources and consequences of power in the context of different corporate and national cultures. Prerequisite: COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area
Proposed Calendar Entry: **COHR 405 (1.5) Managing the Family Business** Managing and working in a family business presents unique challenges: family issues can conflict with business issues. This course examines governance structures that make family businesses more effective. *Prerequisite:* COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is interest in this course among our undergrad students, as many businesses are family businesses, and start-up businesses face some of the same issues as family businesses.

Proposed Calendar Entry: **COHR 406 (1.5) International Human Resource Management** Application of human resource management practices to multinational enterprises. Comparative analysis of national human resource management systems. Prerequisite: COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area.
Proposed Calendar Entry: **COHR 407 (1.5) Advanced Organizational Consulting** Methods and techniques to diagnose and solve a broad range of organizational problems from the perspective of an organizational consultant. Prerequisite: COMM 292, COMM 392, COHR 325 **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area.

Proposed Calendar Entry: **COHR 408 (1.5) Organizational Design** Techniques and approaches for evaluating and adjusting the structures of organizations. *Prerequisite:* COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area.
Proposed Calendar Entry: **COHR 409 (1.5) Creativity and Innovation** Techniques and approaches to managing creativity and innovation in organizations. *Prerequisite:* COMM 292, COMM 392. **[3-0-0]**	**URL:** **Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, and this is an area that is of relevance to many specialties within commerce.

Proposed Calendar Entry:	URL:
COHR 410 (1.5) Knowledge Management Techniques and approaches to managing knowledge and learning in organizations. *Prerequisite:* COMM 292, COMM 392. **[3-0-0]**	**Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in many areas of business.

Proposed Calendar Entry:	URL:
COHR 411 (1.5) Managing and Building Teams Techniques and approaches for building effective teams, handling decision making in teams, creating reward structures, and developing appropriate leadership models. Prerequisite: COMM 292, COMM 392**.** **[3-0-0]**	**Present Calendar Entry:** NONE **Type of Action:** New Course **Rationale:** Introduction of an undergraduate course. There is significant interest in this course among our undergrad students, as this area is in high demand for graduates in the human resources area.

Proposed Calendar Entry:	URL:
COHR 412 (1.5) Advanced Topics in Organizational Behaviour Understanding, critiquing, and analyzing behaviour and social processes in organizations. This course focuses on provocative and current topics that could not be covered in depth in the introductory course. *Prerequisite:* COMM 292, COMM 392 **[3-0-0]**	**Present Calendar Entry:** COMM 420 (3) **Business and Management Values in Organizational Life** Balancing organizational, personal, and community interests in a global economy. In addition to standard management textbooks and readings, the class will draw from the work of poets, fiction writers, essayists, and social critics. *Prerequisite:* COMM 292. **Type of Action:** Reduce credits and change name **Rationale:** Redesign of option requirements

Proposed Calendar Entry: **COHR 433 (1.5) Employment Law A** Introduction to legislation that governs the employment relationship. *Prerequisite:* COMM 292, COMM 392, COMM 393. **[3-0-0]** **COHR 434 (1.5) Employment Law B** Application of legal principles to the employment relationship. *Prerequisite:* COMM 292, COMM 392, COMM 393. **[3-0-0]**	**URL:** **Present Calendar Entry:** COMM 433 (3) **Employment Law** Legal aspects of the employment relationship. Topics include: employment contracts, human rights legislation, standards of work legislation, the labour codes, Workers' Compensation Act and statutes dealing with related areas, e.g., unemployment and pension benefits. *Prerequisite:* COMM 393. **Type of Action:** Change – divide into two parts **Rationale:** Redesign of option requirements

THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

16 January 2007

To: Senate
From: Senate Curriculum Committee
Re: **FACULTY OF FORESTRY CURRICULUM REPORT**

Attached please find the recommended Category 1 undergraduate curriculum proposals from the Faculty of Forestry.

1) The following new courses:
   a. **WOOD 284** (3) Sawmilling
   b. **WOOD 292** (3) Two-Dimensional and Solid Computer-Aided Graphics

2) The following changed program:
   a. **Bachelor of Science in Natural Resources Conservation**

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Programs
Category: 1

Faculty: Forestry **Department:** Forest Sciences / Forest Resources Management **Faculty Approval Date:** March 7, 2006 **Effective Session:** 06W Term 1	**Date:** March 6, 2006 **Contact Person:** Scott Hinch **Phone:** 2-9377 **Email:** shinch@interchg.ubc.ca
Proposed Calendar Entry: The Faculty of Forestry > Bachelor of Science in Natural Resources Conservation > Introduction The B.Sc. (Natural Resources Conservation) is an interdisciplinary program designed to prepare students for careers in the conservation and management of ~~renewable~~ natural resources, ~~the management of protected areas, and landscape and local level planning for the integrated use of terrestrial and aquatic ecosystems.~~ The program provides students with a solid foundation across several disciplines ~~which reflect the multi-faceted character of conservation issues and conservation research. These include~~ including the natural and social sciences underlying the conservation and management of natural resources, an appreciation for the political and socioeconomic contexts which affect the design and outcomes of conservation and management strategies, and a working knowledge of technologically advanced tools and quantitative techniques available to renewable resources planners and managers. Throughout the program, emphasis is placed on developing communication skills, both oral and	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,203,418,172 **Current Calendar Entry:** The Faculty of Forestry > Bachelor of Science in Natural Resources Conservation > Introduction The B.Sc. (Natural Resources Conservation) is an interdisciplinary program designed to prepare students for careers in the conservation of renewable natural resources, the management of protected areas, and landscape and regional level planning for the integrated use of terrestrial and aquatic ecosystems. The program provides students with a solid foundation across several disciplines which reflect the multi-faceted character of conservation issues and conservation research. These include the natural and social sciences underlying the conservation and management of natural resources, an appreciation for the political and socioeconomic contexts which affect the design and outcomes of conservation and management strategies, and a working knowledge of technologically advanced tools and quantitative techniques available to renewable resources planners and managers. Throughout the program, emphasis is placed on developing communication skills, both oral and

written, including approaches to public participation in natural resources planning. Students must select one of two majors upon completion of second year: (1) Science and Management and (2) Global Perspectives. The Science and Management Major focuses on the conservation and management of renewable natural resources, and landscape and local level planning for both terrestrial and aquatic ecosystems. A notable feature of this major is the Integrated Field School, a semester-long course divided into modules, each concentrating on a particular component of B.C.'s environment. The Global Perspectives Major focuses on the conservation and management of renewable and non-renewable resources, policy formation and planning within a global context. Two notable features of this major are the international education that students receive through term-long study abroad or through an intensive short-term international field school, and the global issues capstone course which uses case studies and modeling approaches to explore the effects of decision-making on resource sustainability.	written, including approaches to public participation in natural resources planning and the techniques of conflict resolution. **Type of Action:** Modify text. **Rationale:** These changes introduce the two program majors, presented more fully in the next section. Please see the attached document (FRST_Spring_2006_2) for a detailed description and rationale.

Faculty: Forestry

Department: Forest Sciences / Forest Resources Management

Faculty Approval Date: March 7, 2006
Effective Session: 06W Term 1

Date: March 6, 2006
Contact Person: Scott Hinch
Phone: 2-9377
Email: shinch@interchg.ubc.ca

Proposed Calendar Entry:

The Faculty of Forestry > Bachelor of Science in Natural Resources Conservation > Degree Requirements

This program consists of a common first and second year consisting of 63 credits. Students apply to the program director for entry into one of the two majors upon completion of second year. Acceptance into the Global Perspectives major may be limited by demand, in which case acceptance will be based on academic standing at the completion of 2nd year.

First Year	
BIOL 111 and 121~~, and 141~~[1]	~~7~~ 6
CONS 101	1
ECON 101 and 102	6
ENGL 100-level	6
MATH 100, 102 or 104[2]	3
SOCI 100[3]	6
SOIL 200	3
Total Credits	~~32~~ 31
Second Year	
CONS 200	3
FRST 200	7
FRST 201	7

URL:
http://students.ubc.ca/calendar/index.cfm?tree=12,203,418,175

Current Calendar Entry:

The Faculty of Forestry > Bachelor of Science in Natural Resources Conservation > Degree Requirements

For students entering the Faculty of Forestry from senior secondary school, the program consists of a minimum of 123 in-session credits, normally taken over a four-year period.

First Year	
BIOL 111, 121, and 141[1]	7
CONS 101	1
ECON 101 and 102	6
ENGL 100-level	6
MATH 100, 102 or 104[2]	3
SOCI 100[3]	6
SOIL 200	3
Total Credits	32
Second Year	
CONS 200	3
FRST 200	7
FRST 201	7
FRST 231[4]	3
FRST 232	3

FRST 231[4]	3
FRST 232	3
GEOG 101, or GEOG 102 and GEOG 103	6
Elective	3
Total Credits	32

[1] Students with Biology 12 should replace BIOL 111 with three credits of electives. ~~BIOL 140 (2) may be taken in place of BIOL 141 (1); however, the extra credit may not be used towards meeting the total elective requirements for the program.~~

[2] Students who had less than a C+ average in Math 12 must take the non-credit MATH 012 prior to Mathematics courses. Students may enrol in MATH 180 (4 credits) instead of MATH 100 or 102 (3 credits), but the credit difference cannot be applied towards program electives.

[3] Students may take a 200-level SOCI course (three credits) and an elective (3 credits) ~~another social science course (three credits)~~ in place of SOCI 100. ~~The latter course must be chosen in consultation with the program director.~~

[4] Could be replaced with BIOL 300.

Major in Science and Management

Third Year	
CONS 330	3
CONS 340	3
CONS 481	3
FRST 318[1]	~~2~~ 3
FRST 385	3
FRST 386	3
FRST 395	3
FRST 495	3
SOCI 360	3

GEOG 101, or GEOG 102 and GEOG 103	6
Elective	3
Total Credits	32

[1] Students with Biology 12 should replace BIOL 111 with three credits of electives. ~~BIOL 140 (2) may be taken in place of BIOL 141 (1); however, the extra credit may not be used towards meeting the total elective requirements for the program.~~

[2] Students who had less than a C+ average in Math 12 must take the non-credit MATH 012 prior to Mathematics courses. Students may enrol in MATH 180 (4 credits) instead of MATH 100 or 102 (3 credits), but the credit difference cannot be applied towards program electives.

[3] Students may take a 200-level SOCI (three credits) and another social science course (three credits) in place of SOCI 100. The latter course must be chosen in consultation with the program director.

[4] Could be replaced with BIOL 300.

Third Year	
CONS 330	3
CONS 340	3
CONS 481	3
FRST 318[5]	2
FRST 385	3
FRST 386	3
FRST 395	3
FRST 495	3
SOCI 360	3
Elective	3

Elective	3
Total Credits	~~29~~ 30

Fourth Year	
CONS 440	3
CONS 451[2]	15
FRST 443	3
CONS 486	3
CONS 498 or elective[3]	3
Elective[4]	3
Total Credits	30

[1] Could be replaced with ECON 371 or 374 (3 credits).

[2] An integrated course taught in the Term 1. Registration is restricted to this course only during Term 1 and only to students in fourth year of NRC program.

[3] Elective must be a course numbered 300 or above.

[4] Elective must be a course numbered 300 or above. To be chosen in consultation with the program advisor.

Major in Global Perspectives

Courses which meet the requirements in each of the following areas may be found listed on the web site for this major (xxxxxxx).

Third and Fourth Years	
Core Areas[1]	21
Resources Systems[2]	12
Language Courses[3]	6
Electives[4]	15
CONS 452	6
International Experience[5]	
Total Credits	60

Total Credits	29

Fourth Year	
CONS 440	3
CONS 451[6]	15
FRST 443	3
CONS 486	3
CONS 498 or elective[7]	3
Elective[8]	3
Total Credits	30

[5] Could be replaced with ECON 371 or 374 (3 credits).

[6] An integrated course taught in the Term 1. Registration is restricted to this course only during Term 1 and only to students in fourth year of NRC program.

[7] Elective must be a course numbered 300 or above.

[8] Elective must be a course numbered 300 or above. To be chosen in consultation with the program advisor.

Type of Action: Modify program listing to allow introduction of two majors.

Rationale: These changes are necessary to broaden the educational experience we can provide the students in our Natural Resources Conservation Program. The first of these two majors (Major in Science and Management) is similar to the existing program. The second major (Major in Global Perspectives) allows students to study conservation and natural resources management issues from a global perspective.

Please see the attached document (FRST_Spring_2006_2) for a more detailed rationale.

[1] One 3-credit course for each of the following topic areas: (i) geomatics; (ii) conservation and biodiversity; (iii) resources and economics; (iv) resources and society; (v) international policy/governance and resources; (vi) indigenous perspectives; and (vii) globalization. Acceptable courses are listed on the web site for this major. [2] One 3-credit course in each of the following topic areas: (i) oceanography / fisheries / water systems; (ii) agriculture / food systems; (iii) forestry systems; and (iv) energy / mineral systems. Acceptable courses are listed on the web site for this major. [3] Credits may be obtained in any non-English language courses, but students are encouraged to learn a language that would help them in their study abroad term. Students who can pass an oral proficiency test for a non-English language relevant to their study abroad term would be exempt from this requirement and the language credits will be replaced by 6 credits of electives. The NRC program director would coordinate the proficiency test and approve the electives. [4] 6-credits of electives must be selected from the Resources Systems list. 9-credits of electives may be general, of which at least 3 credits must be at the 300 or 400 level. [5] The international experience requirement may be met by a minimum of 1-term study abroad, a 2 to 4 week international field school, an international co-op placement, or by an international internship.	

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Consultation Report

for Category 1 Curriculum Proposals.

This form should be stapled to the paper copy of the relevant curriculum change form.

Faculty:	Departments:	Date: (dd mm yy)
Forestry	**Forest Sciences & Forest Resources Management**	**04/12/06**

Name of Course or Program: **Two new majors for the BSCN program**
Identification Number:

Consultations:
List consultants, attach their signed memos, and include below your responses to any questions that they raised.

Name	**Dept/School**	**Faculty**
1. **Susan Allen**	**Earth and Ocean Sciences**	**Science**
Response: **Suggested a few different EOS courses under options. Accommodated.**		
2. **Bill Milsom**	**Zoology**	**Science**
Response: **Supportive.**		
3. **Brent Skura**	**Program Director, Global Resources Systems**	**Land and Food Systems**
Response: **Supportive. Had query regarding ISI students seeking "study abroad" within Canada. Not directly pertinent to this material.**		
4.		
Response:		
5.		
Response:		
6.		
Response:		

THE UNIVERSITY OF BRITISH COLUMBIA

FRST_Spring_2006_2

Proposed changes to the Natural Resources Conservation (NRC) Program

Committee: S. Hinch (co-chair), G. Hoberg (co-chair), S. Mitchell, B. Vanderkamp, P. Wood

Mar. 12, 2006

Executive Summary

We will create two 'streams' or 'majors' in the Natural Resources Conservation (NRC) program. One stream, a Major in Science and Management, would consist of the current program with some very minor modifications. The second stream, a Major in Global Perspectives, would consist of significant changes in the 3rd and 4th years. Both majors would lead to a BSc in NRC. No significant new teaching resources are required from within the Faculty of Forestry with the exception of one new 4th year 6-credit capstone course. By creating two majors, we could double the size of the NRC program over the next few years.

Background to Development of Natural Resources Conservation - Global Perspectives Major

The committee's original purpose was to investigate the feasibility of developing an undergraduate program in Sustainable Resource Management in the Faculty of Forestry. The primary motivation was to serve a perceived need for a more flexible degree program that would also help to increase our enrollment. After several meetings, we agreed that all of our existing programs in Forestry address issues of 'sustainability'. But we also agreed that none of our programs dealt explicitly with resource management from a global perspective. The existing forest resource management and conservation programs largely focus on BC issues and field experiences. Recent attempts at creating new 'international' programs in our faculty have not proceeded, although there is a clear desire from students and from our International Forestry Programs office to "increase the international content of courses, and challenge students with global issues, concerns and solutions".

Early in our deliberations, we found that the desirable components of a new program in sustainability (i.e. target incoming students, instructional approach, learning objectives, non-CFAB accredited) were strikingly similar to what already existed within our current NRC program. However, the required courses in the existing NRC program lack basic information on some resource systems, and hands-on international experience. In recent years some NRC students have been able to gain some of that information and experience through careful elective selection and undertaking a voluntary study abroad year. However, the current NRC program lacks adequate flexibility in terms of elective freedom to easily allow most students to obtain an education in global perspectives and resource management. This lack of flexibility also limits our ability to attract transfer students from arts or social science and enable them to use credits obtained elsewhere.

Demand for the Natural Resources Conservation Program

The current NRC program has been very successful in attracting new students both domestic and international, and in retention of existing students. As a result, we have seen the program grow by about 9% per year since 2001 (97 students) with present increases of 65% from 2001 (~160 students). International student enrollment in NRC has increased from 3 (2001) to 25 (2006) and presently 58% of all international students in Forestry are in NRC.

There is a market demand for graduates from the NRC program. Mail-out surveys of graduates have found that two thirds have been able to find employment and of those not employed, two thirds are receiving additional schooling[2]. Those that are employed describe their positions as ‘professional’ or ‘technical paraprofessional’. Based on informal phone surveys, graduates from the NRC program largely find employment as environmental consultants in private companies, biologists or planners with governmental agencies, or extension/biological specialists working with non-profit organizations. A smaller segment of NRC graduates enter graduate school, teachers college, or seek additional training at colleges[3].

The market demand for students with a background similar to that of an NRC degree is good over the next five to 10 years. At a national level, Human Resources and Development Canada predicts that students with such a degree will face fair to good work prospects and encounter low competition for employment with resource management or land use planning

organizations[4]. Average annual earnings are expected to be above the national average. The provincial picture is equally encouraging. Currently in BC, students with NRC-type degrees find employment largely in private consulting, education and government agencies[5]. Though public service positions are expected to diminish over the next few years, there currently is a shift to more private sector positions. The overall job growth rate is estimated at 1.5% (1998-2008), which is similar to the average growth rate for all occupations. Students with NRC-type degrees (i.e. applied biology or resource science degrees) will have good opportunities to work in environmental consulting. During the 1990s, non-profit organizations increased in Canada by 50% and in BC by over 300%[6]. Over two thousand persons are employed in Canada in this sector.

In the U.S., through 2010, employment for conservation scientists is expected to grow from 3-6%, and for environmental scientists and biologists, 21-35%[6]. This demand is spurred on by continuing emphasis on environmental protection, responsible land management, and compliance with environmental laws and regulations. As in Canada, employment will increasingly be in the private sector. In summary, the job market demand over the next 10 years for students with an NRC degree should be good, particularly if graduates consider employment as environmental consultants with private companies or non-profit organizations.

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[2]Dumaresq, C. 2003. The class of 2000 two years after graduation - Draft report of findings for UBC Forestry Graduates surveyed in 2002. Planning and Institutional Research, University of British Columbia.

[3]Hinch, S.G. 2003. Program Director, Natural Resources Conservation Program, Personal Communication.

[4]Human Resources Development Canada, Job Futures National Edition, Accessed through http://jobfutures.ca, Aug. 2003.

[5]Work Futures - British Columbia Occupational Outlooks. Accessed through http://www.workfutures.bc.ca, Aug. 2003.

[6]Barla, P., JG Power, JD Saphores, I Attridge, and S. Hilts. 2001. Land securement and stewardship activities in Canada by non-profit organizations. Accessed through http://www.green.ulaval.ca/fr/summary.pdf, Aug 2003.

[6]United States Department of Labor, Bureau of Labor Statistics, Occupational Outlook Handbook. Accessed through http://stats.bls.gov, Aug. 2003.

Demand for Education in Global Resource Conservation

There a several indications that the demand for education in resource conservation with a global perspective is growing. Despite declining numbers in most North American forestry programs, ones with international field schools are thriving. For instance, the Warnell School of Forest Resources at the University of Georgia introduced Study Abroad courses in 2001 and has attracted more than a tenfold increase in these courses in the past four years in conjunction with majors or minors in forestry or conservation disciplines.[7]

Other traditional applied biology programs where enrollments were declining have also seen a reversal in enrolment trends when programs were re-tooled to include international perspectives. For instance, at UBC, a recently created undergraduate degree in Global Resource Systems (BSc GRS) in the Faculty of Land and Food Systems (FLFS) has a total enrollment of 84 with 32 new 2nd year students this year alone (students enter their program in year 2). [NOTE - unofficial information has their new enrollment closer to 50 students.] Last year, 4-5 students transferred out of UBC Forestry programs, most out of NRC, into FLFS ones (either GRS or Agroecology). The GRS degree offers an enticing degree of study with a focus on sustainable agriculture within a specific region of the world. The degree requires students to pursue a major in some resource system as well as in some region (http://www.landfood.ubc.ca/programs/special_region_ug.htm). There are few required courses in the program (and few offered through FLFS) with students largely developing their own curriculum by taking courses predominantly in other faculties[8].

Our forestry recruiters have heard from many undergraduates that they would like to make a difference in a world they perceive as fraught with environmental problems. Degree programs that are applied, forward-looking, and action-oriented are especially enticing if they emphasize sustainability and have a global perspective. This is one reason why the NRC program in its current format has grown and why the majority of our faculty's international students are in NRC. Many of the current NRC students would like to see more global 'flavour' in their NRC program. In recent years many potential and registered NRC students have

[7] Warnell enrollment in Study Abroad courses: 2001 (29); 2003 (64); 2004 (210); 2005 (320).

requested that they be allowed to take a minor in some complementary discipline, in conjunction with a major in NRC. There are no options for this arrangement at present though a central theme of the areas that students have suggested a 'minor' in tend to involve international studies or commerce.

Despite the growing desire among NRC students for more global flavour in aspects of their degree, and 9% per year program growth, the Study Abroad program in the faculty of forestry has not seen a concomitant increase in NRC student participation (year, NRC/Total Forestry Study Abroad; 2001 0/5; 2002 1/3; 2003 2/6; 2004 3/6; 2005 2/5). The likely reason for lack of participation has been the lack of flexibility in the current NRC curriculum which prevents easy transfer of core courses from partner schools and the need to complete all courses from years 1-3 in order to enter the 4th year integrated field school.

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[8]While both the present FLFS degree in Global Resource Systems and the proposed Faculty of Forestry Natural Resources Conservation degree (major in Global Perspectives) have the goal of providing a resource-based, interdisciplinary, undergraduate BSc degree with some emphasis on international study, there are several key differences between them including program objectives, flexibility and core-course requirements. Theses programs will appeal to different types of students. The objective of the proposed NRC degree major is to prepare students for careers in the conservation and management of renewable and non-renewable resources, policy formation and planning within a global context. The program provides students with a foundation across several disciplines that reflect the multi-faceted character of conservation and management issues and research as well as a working knowledge of technologically advanced tools and quantitative techniques available to renewable resources planners and managers. Several of the core courses deal with forests and forestry. The FLFS-GRS degree has a less-directed, more general mandate. It recognizes that resource problems are complex and require solutions that are global in scope and offers a comprehensive and flexible degree emphasizing the study of agricultural and other related resource systems with a specific focus on one resource area and one region of the world. Several of the core courses deal with agriculture and food systems.

The proposed major has many more required courses (~100 credits) than FLFS-GRS (~80 credits), resulting from the former's emphasis on obtaining a required basic skill set in science, management and technological tools. The proposed major will cover more resource systems, though potentially in less detail, than the FLFS-GRS. The FLFS-GR program is customized by the student and has only ~20 credits of required courses from years 2-4, inclusive. Over 40 credits in the program are electives. Thus FLFS-GR is much more flexible, permitting greater latitude in course selection.

An Additional Stream of the NRC Program

We can address the need for enhanced conservation education in global issues, resources and perspectives, and enhance program flexibility by creating two 'streams' or 'majors' of the NRC degree. This would be achieved by making very minor curriculum changes in years 1 and 2 to the current NRC program which would be a common curriculum for both streams. Years 3 and 4 would remain unchanged for the current stream of the NRC degree which would be called 'Major in Science and Management'. The title reflects the general learning objectives. For the 'Major in Global Perspectives', we have designed a different 3rd and 4th year curriculum reflecting more flexibility and choice in course selection, more electives, a broader curriculum of resource topics, a capstone global resource issues modeling course, and, a requirement of international experience obtained by study abroad, international field schools, or related international volunteer or internship experience.

Description of NRC program

The following description of the current NRC program would remain unchanged and apply to the Major in Science and Management. "This is an interdisciplinary program designed to prepare students for careers in the conservation and management of renewable natural resources, and landscape and local level planning for both terrestrial and aquatic ecosystems. The program provides students with a solid foundation across several disciplines including the natural and social sciences underlying the conservation and management of natural resources, an appreciation for the political and socioeconomic contexts which affect the design and outcomes of conservation and management strategies, and a working knowledge of technologically advanced tools and quantitative techniques available to renewable resources planners and managers. Throughout the program, emphasis is placed on developing communication skills, both oral and written, including approaches to public participation in natural resources planning. A notable feature of the program is the Integrated Field School, a semester-long course divided into modules, each concentrating on a particular component of B.C.'s environment."

The Major in Global Perspectives would share many of the general objectives of that above with some modest but distinct differences (italics). "This is an interdisciplinary program designed to prepare students for careers in the conservation and management of renewable and *non-renewable resources, policy formation and planning within a global context.* The program provides students with a solid foundation across several disciplines including the natural and

social sciences underlying the conservation and management of natural resources, an appreciation for the political and socioeconomic contexts which affect the design and outcomes of conservation and management strategies, and a working knowledge of technologically advanced tools and quantitative techniques available to renewable resources planners and managers. Throughout the program, emphasis is placed on developing communication skills, both oral and written, including approaches to public participation in natural resources planning. *Two notable features of the program are the international education that students receive through term-long study abroad or through an intensive short-term international field school, and, the global issues capstone course which uses case studies and modeling approaches to explore effects of decision-making on resource sustainability."*

Relative Strengths of the Majors

NRC - Science and Management

-more scientifically rigorous

-more grounded in natural science

-extensive local and regional resource-use planning and management exercises from a Pacific Northwest perspective

-Integrated Field School (15 credits) with modules concentrating on different components of B.C.'s environment

-more in-line with Registered Professional Biologist criteria (additional year for Registered Professional Forester)

NRC - Global Perspectives

-additional resource system overviews (beyond forests, lakes/rivers, grass/rangelands to include agriculture/food, energy/minerals, oceanography)

-more emphasis on policy/planning

-international education experience (study abroad, international field schools, or international internships)

-global issues capstone course with case studies and modeling approaches to explore effects of decision-making on resource sustainability

Career and Post-Graduate Options

The present description of what NRC graduates do with their degree (below) was developed several years ago at the program's inception. Information provided by NRC graduates have confirmed these career and educational paths and we expect that students with a Major in Global Perspectives would follow similar general paths, but with broader opportunity for work abroad or with local employers with overseas or global interests.

"Because this degree offers a broad background in natural resources science and management, our graduates have found diverse employment working in areas of fisheries, wildlife, environment, policy, planning, and education for natural resource agencies at the international, federal, provincial, crown corporation, First Nations, municipal, and private industry (i.e. environmental consultant) levels. Graduates also use their degree as a basis for entry into professional programs (e.g. law, education, planning), entry into graduate school (e.g. MSc/PhD programs), or partial basis for acquiring professional certification (e.g. Registered Professional Forester or Registered Professional Biologist)."

Specific Curriculum Changes to Current NRC Program and Rationale

Common years 1 and 2 (see Appendix 1 for summary):

Major in Science and Management; Major in Global Perspectives

1) In Year 1 of the NRC program, the laboratory component of first year biology [Biol 140 (2)] would be removed from the program. The lecture component [Biol 121 (3)] would still be required. There are both pedagogic and practical reasons for doing this. The original purpose of the laboratory course was to give students experience working in laboratory situations; however, they now receive considerable laboratory exposure in Frst 200 (7), as well as in other courses. Half of our new students each year transfer in from other schools or programs, and are then assigned a 2nd year classification. This causes a very late registration date, which usually means that many first year courses (in particular the biology lab course) are full. Thus, many students don't take the 1st year lab course until the winter of 2nd year, or in their 3rd or 4th year. There is only limited value in taking a 1st year lab course in the senior years of their degree. The Forest Resources Management program dropped the biology lab course from their curriculum last year

for similar reasons. Dropping this lab course also reduces the first year credit load from 33 to 31 which is more in-line with credit loads in subsequent years of the program.

2) Students must take either Soci 100 (6) or any Soci 200 level (3). Either of these satisfies the prerequisite for the 3rd year required course in resource sociology (Soci 360). If they take the Soci 200 option, the calendar currently states that another 3 credit 'elective' social science course is additionally required. We propose to formally change this elective requirement to 'any course'. This increases the flexibility of the program and allows transfer students to use some of their additional credits regardless of whether they come from a natural science or social science background.

Years 3 and 4 (see Appendix 2 for summary):
Major in Science and Management

Years 3 and 4 of current NRC program remains unchanged and forms the last two years of the Major in Science and Management.

Years 3 and 4 (see Appendix 2 for summary):
Major in Global Perspectives
There would be five components to the curriculum in years 3 and 4 (core courses, resource system courses, international experience, a capstone integrated course, elective courses).

Core courses (21 credits) - see Appendix 3 for listing of courses
The rationale for the core courses is that there are several disciplines and subjects that are essential to any degree in resource management and conservation that should remain for this major. However, to allow greater flexibility than in the current NRC program we would allow students to select courses from a designated subset. Specifically, 1 course (3 credits) would be selected from a list of 2-3 available [not all courses would be offered in the Faculty of Forestry, though our faculty would offer at least one option for each core subject area]. One course in each of the following subject areas is required: geomatics, conservation biology and biodiversity,

resources and economics, resources and society, international policy or governance for management of resources, indigenous perspectives, and globalization.

Resource system courses (12 credits) - see Appendix 4 for listing of courses

The rationale is that students should have a general understanding of the biophysical aspects of different resource systems, though not necessarily be a specialist in any one system. We would require 1 course (3 credits) in each of the following four categories: water systems (oceanography, fisheries, limnology, and hydrology), agriculture / food / rangeland systems, forestry systems, energy / mineral systems. Note that these courses would have to be different ones than those selected as 'core' courses.

International experience (0 credits)

There are no credits earned specifically for this requirement however, students would be required to complete one of the following: undertake a minimum 1-term study abroad program, complete an intensive 2-4 week field school taken outside of Canada, or, complete a minimum 3 month international experience as a volunteer or intern in the area of resource conservation. An international 'co-op' term, in association with the Faculty of Forestry co-op program, would also suffice. Specifically, students would be encouraged to primarily exercise the first option and undertake study abroad because up to 15 course credits obtained could be transferred to the NRC degree to satisfy specific course or elective requirements. To exercise either of the other two options, students would first need permission of the NRC Program Director. Students could obtain 3 credits of elective (via a directed studies course) by writing a detailed essay of their experiences under either of those two options. 'International experience' would involve any country outside of Canada.

4th year capstone course (6 credits)

This course would require the integration of knowledge and experience gained through the degree to examine global resource issues using a scenario structuring and testing approach. Case studies, computer simulations, group projects and guest speakers would be utilized. A focus would be placed on how human needs, resource production potential, and regional and international policies affect the sustainability of resource production, environmental quality and

quality of life. S. Mitchell has offered to co-develop and teach this course. Proposed learning objectives and assessment procedures are presented in Appendix 5. [Note: specifics on this course would not need to be formally approved until 2007 so there is ample time to discuss the delivery and creation of this type of course.]

Language requirement (6 credits)

Students would be required to take 6 credits of any language (non-English). They would be encouraged to learn a language that would help them in their study abroad term. Students who can pass an oral proficiency test for a language (non-English) relevant to the study abroad term would be exempt and 6 credits of elective could then be substituted. The NRC program director would coordinate the proficiency test and approve the electives. It is recognized that 6 credits of any language would likely not be sufficient for students to be able to study abroad in that language but it should be enough to help with daily communication. There is also intrinsic value in students studying and appreciating foreign languages

Elective courses (15 credits)

Students would be required to take additional courses which they could use to further focus on specific resource systems, conduct an undergraduate thesis, or as general electives.

-6 credits must be selected from Resource Systems course list (ones not used to satisfy Resource systems requirements)

-6 credits of any courses at any level

-3 credits of any courses at 300/400 level

Program Management and Operation

All core or resource systems courses that involve choice would require approval of the NRC program director. Students will choose from an approved list of courses (Appendix 2) - additional allowances for alternative courses can be made at the discretion of the director and NRC program committee. The director would work with the International Forestry Programs office to facilitate study abroad and field school options.

Appendix 1. Proposed modifications to years 1 and 2 of current NRC program with creation of two majors. Yellow indicates specific proposed changes.

Current NRC Program	**Proposed NRC Program** Major in Science & Management Major in Global Perspectives
First Year - 33 credits	**First Year - 31 credits**
ENGL 100 level (6)	ENGL 100 level (6)
BIOL 111 or *gr12 + Elective (3)*	BIOL 111 or *gr12 + Elective (3)*
BIOL 121 (3)	BIOL 121 (3)
BIOL 140 (2) or BIOL 141 (1)	*no replacement*
CONS 101 (1)	CONS 101 (1)
SOIL 200 (3)	SOIL 200 (3)
ECON 101 (3)	ECON 101 (3)
ECON 102 (3)	ECON 102 (3)
SOCI 100 (6), or,	SOCI 100 (6), or,
SOCI 200-level (3) + soc. sci. elective (3)	SOCI 200 level (3) + general elective (3)
MATH 100, 102 or 104 (3)	MATH 100, 102 or 104 (3)
Second Year - 32 credits	**Second Year - 32 credits**
CONS 200 (3)	CONS 200 (3)
FRST 200 (7)	FRST 200 (7)
FRST 201 (7)	FRST 201 (7)
FRST 231 (3)	FRST 231 (3)
FRST 232 (3)	FRST 232 (3)
GEOG 101 (6) or	GEOG 101 (6) or
GEOG 102 (3) + GEOG 103 (3)	GEOG 102 (3) + GEOG 103 (3)
Elective (3)	*Elective (3)*

Appendix 2. Proposed modifications to years 3 and 4 of NRC program. The new Major in Science and Management follows the current NRC program. Note that the courses indicated in the left column are not intended to 'match' with any specific line item in the right column.

Major in Science & Management	Major in Global Perspectives
Third Year - 30 credits	**Third and Fourth Years (60 credits)**
CONS 330 (3)	**Core courses (21 credits)**
CONS 340 (3)	-one 3-credit course for each of the following topics:
CONS 481 (3)	-geomatics
FRST 318, ECON 371 or 374 (3)	-conservation biology and biodiversity
FRST 385 (3)	- resources and economics (3)
FRST 386 (3)	- resources and society
FRST 395 (3)	- international policy/governance and resources
FRST 495 (3)	-indigenous perspectives
SOCI 360 (3)	-globalization
Elective (3)	
	Resource systems courses (12 credits)
Fourth Year - 30 credits	-1 course (3) in each of the following categories:
FRST 443 (3)	- oceanography / fisheries / water systems
CONS 451 (15)	- agriculture / food systems
CONS 440 (3)	- forestry systems
CONS 486 (3)	- energy / mineral systems
Elective (300-400 level) (3)	
Elective (300-400 level) (3)	**International experience (0)** - minimum of 1 term study abroad program, or intl. co-op work term, or 2-4 wk intl. field school, or intl. internship
	Capstone course (6) - global resource issues involving scenario structuring and testing using case-oriented modeling
	Language courses (6)
	Electives (15) - resource systems (6) - general (6) - 300/400 level (3)
total credits over all years - 123	total credits over all years - 123

Appendix 3 - Core courses (21)
Students will take at least 1 course (3 credits) from each of the following categories. All are 3 credit courses unless Term is 1-2 which indicates a 6 credit course. ? indicates the course is not currently offered.

Course Topic	Course Name	Pre-reqs	Term	Other issues
Conservation Biology and Biodiversity (3)				
CONS 330	Conservation biology	CONS 200	2	Loose pre-req.
BIOL 408	Principles of applied ecology	BIOL 300 or FRST 232	2	
BIOL 416	Principles of conservation biology	BIOL 303	2	FRST 201 would count as pre-req.
FRST 495	Biological diversity and forest management	FRST 201 and 395	2	
FRST 395	Forest wildlife ecology and management	FRST 201 or BIOL 303	1	
BIOL 445	Darwin's fishes	3rd year of a BSc	2	
GEOG 307	Biogeography and global change	2nd year ecology course	2	FRST 201 would count as prereq
Geomatics (3)				
FRST 443	Remote sensing in forestry and agriculture		2	
CONS 340	Introduction to Geographic Information Systems	FRST 232, or, comp sci course	1	
GEOG 270	Introduction to Geographic Information Systems		1 or 2	
GEOG 376	Advanced Geographic Information Systems	GEOG 270, or, some GIS knowledge	1	
GEOG 471	Applied concepts in Geographic Information Systems	GEOG 376	2	
GEOG 475	Spatial data analysis	GEOG 270, or, some GIS knowledge	?	
Resources and Economics (3)				
FRST 318	Forest and conservation	ECON 101	2	

	economics			
FRST 419	Economics of the forest sector	ECON 101 and MATH 100 level	?	
ECON 234	Wealth and poverty of nations	ECON 101 and 102	1 or 2	
ECON 317	Poverty and inequality	ECON 101 and 102	?	
ECON 335	Fertility, families and human migration	ECON 101 and 102	2	
ECON 371	Economics of the environment	ECON 101 and 102	2	
ECON 374	Land economics	ECON 101 and 102	1	
ECON 471	Economics of nonrenewable resources	One of ECON 201,206,301,304	?	
ECON 472	Economics of renewable resources	One of ECON 201,206,301,304	1	
GEOG 361	Introduction to economic geography	GEOG 122	1	

Course Topic	Course Name	Pre-reqs	Term	Other issues
Resources and Society (3)				
SOCI 360B	Resource sociology	SOCI 100 or any 200 level SOCI	2	
FRST 470	Forests and society	4th yr standing	1	
SOCI 420A	Sociology of the environment	SOCI 100	2	
GEOG 310	Environment and resources	GEOG 101, or 2 of GEOG 102,103,210	1	
GEOG 410	Environment and society	GEOG 310	2	
GEOG 411	Environment and empire	3rd/4th yr standing and 6 credits physical geog.	1	
ANTH 330	Anthropology of Rural Peoples and the Global Economy		2	
ANTH 360	Introduction to ecological anthropology		1	
International Policy/Governance (3)				
CONS 440	Conservation policy	CONS 200	2	
FRST 415	Forest policy	ECON 101	1	
POLI 351	Environmental politics and		2	

	policy			
POLI 375A	Global environmental politics		2	
Indigenous Perspectives (3)				
CONS 370	Perspectives on First Nations and forest lands		2	
ANTH 220	First Nations of British Columbia	ANTH 100	1	
ANTH 304A	Ethnology of the Northwest coast		1	
ANTH 401A	First Peoples of North America		2	
FNSP 200C	First Nations of North America		1-2	
HIST 302	History of the Native Peoples of Canada		1-2	
IHHS 301	First Nations health and the traditional role of plants	Health science programs only	2	
Globalization (3)				
WOOD 461	Globalization and marketing of wood products	3rd year standing	2	
ECON 255	Understanding globalization	ECON 101 and 102	2	
GEOG 121	Geography, modernity and globalization I		1	
GEOG 122	Geography, modernity and globalization II	GEOG 121	2	

Appendix 4 - Resource Systems Courses (12 credits)

Students must take at least 1 course from each of the following categories, and also complete at least 6 additional credits from any of the categories. All are 3 credit courses unless Term is 1-2 which indicates 6 credit course. ? indicates course not currently offered. FRST 351 (2) would be treated as equivalent to a 3-credit course and students could get exempted from outstanding credit.

Course Topic	Course Name	Pre-requisites	Term	Other issues
Agriculture / Food / Range Systems				
AGRO 260	Agroecology I		1-2	Several field tours
AGRO 360	Agroecology II	AGRO 260	2	Field tours
AGRO 361	Key indicators of agroecosystem sustainability	AGRO 260 & 360 recomm.	2	
AGRO 401	Soil Processes	Phys & Chem I	1	
AGRO 402	Sustainable soil management		2	
AGRO 403	Field and laboratory methods in soil science	AGRO 401 concurrent	2	
AGSC 250	Land, food and community I	NA	1-2	
FNH 200	Exploring our food	2nd yr	1 or 2	
FNH 342	Consumer aspects of food	3rd yr	1	
FNH 355	World problems in nutrition		2	
FRE 306	Introduction to global food markets	ECON 100 or 101	1	
FRE 340	International agricultural development	ECON 100 or 101		
BIOL 343	Plants and peoples			
FRST 444	Agroforestry	1st yr ecol. course	1	
Forestry Systems				
FRST 305	Silviculture 1	2nd yr Forestry	1	
FRST 306	Silviculture 2	FRST 305	2	
FRST 351	Interior Field School	2nd yr Forestry	NA	
FRST 439	International Forestry		2	
Oceanography / Fisheries / Water Systems				
FRST 385	Watershed hydrology	3rd yr Forestry	1	
FRST 386	Aquatic ecosystems and fish in forested watersheds	3rd yr Forestry	2	
CONS 486	Fish conservation and management	FRST 386	2	
AGSC 301	Aquaculture field studies		NA	
EOSC 270	Marine Biodiversity	2nd Year Standing	2	

EOSC 370	Introduction to physical and chemical oceanography	1st yr Science	1	
EOSC 371	Introduction to biological and geological oceanography	EOSC 370 recom	2	= BIOL 305
EOSC 314	The ocean environment	2nd yr	1	
EOSC 478	Introduction to Fisheries Science		2	
BIOL 402	Aquatic ecology	BIOL 300, 302& 303	1	3rd yr Forestry would suffice
BIOL 405	Marine ecology	BIOL 205, 302, 320	2	
BIOL 465	Biology of fishes	BIOL 204	1	
BIOL 466	Applied biology of fishes	BIOL 465	2	

Course Topic	Course Name	Pre-requisites	Term	Other issues
Energy / Mineral systems				
EOSC 210	Earth science for engineers	2nd yr Forestry	1	
EOSC 311	The earth and its resources	2nd yr	1	
EOSC 312	The earth system and environmental evolution		2	
MINE 290	Introduction to mining and mineral processing		1	

Appendix 5 - Capstone Course (6 credits)

Course name: Global resource systems and sustainability

Learning objectives: This is the capstone course for the Global Perspectives Major. Students will apply their knowledge of resource systems and assessment tools, consider supply/demand issues (short and long term), governance and institutional capacity, and develop and compare alternative resource management/policy scenarios that satisfy criteria of environmental, economic, and social sustainability.

Approach: Students will arrive with introductory level modeling and GIS skills. Basics of computer modeling will be reviewed as needed. Problem analysis will take place at the level of a small country but in the context of that country's relations with the global community/markets. Students will work in small groups on one of 4 countries chosen to represent different regions of the world and stages of development. They will be provided with base inventories and statistics, they can track additional information down from the web and from other sources. They will be provided with modeling frameworks/tools. Instruction and discussions during the term would address analytical approaches and information sources. The project would be completed in 4 phases: Information assembly phase; Problem analysis phase; Scenario development and comparison phase (status quo and 1 enhanced capacity scenario); Write-up and defense phase.

Instruction: 3 class hours a week over two terms. A lead instructor will be assisted by co-instructors/guest-lecturers presenting on their specialties and topical issues. Participation by visiting lecturers/scientists and graduate students from developing countries will enhance the global perspective and facilitate the educational experience.

Evaluation: The course will take a problem-analysis approach with students working in small groups on a term-long project. Students will also prepare individual presentations, individual term papers, and participate in class discussions based on assigned readings and questions. Graduate student teaching assistants will assist in evaluations of students and with on-going mentoring.

THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

16 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **FACULTY OF GRADUATE STUDIES CURRICULUM REPORT**

Attached please find the recommended Category 1 graduate curriculum proposal from the Faculty of Education

1) The following changed program:
    a. **Human Development, Learning, and Culture** (formerly Development, Learning, and Culture)

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Human Development, Learning and Culture** **Degrees Offered: Ph.D. M.A. M.Ed.** ***Members*** **Professors** H. Goelman, S. Hymel, M. Porath. **Associate Professors** M. Bryson, L. Ford, A. Hubley, N. Perry, K. Schonert-Reichl. **Assistant Professors** J. Shapka. J. Vadeboncoeur ***Program Overview*** The graduate program in Human Development, Learning and Culture (HDL~~A~~C) is concerned with key factors (cognitive, linguistic, social-emotional and cultural) that inform models of typical and atypical learning and development across the life span and how best to support learners and learning in formal educational and other settings. HDL~~A~~C program courses and research weave together theoretical models and concepts in their application to real world educational issues. Investigations of learning and development are applied to a wide range of contexts including classroom, work and technological environments, and are	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,230 **Present Calendar Entry:** **Degrees Offered** *M.A., M.Ed.* *Ph.D.* **Doctor of Philosophy** The Department of Educational and Counselling Psychology, and Special Education offers programs of study leading to Ph.D. degrees in the following areas: ▪ Counselling Psychology ▪ Human Learning, Development, and Instruction ▪ Measurement, Evaluation, and Research Methodology ▪ School Psychology ▪ Special Education The Ph.D. in the Counselling Psychology program is accredited by the Canadian Psychological Association (CPA) and American Psychological Association (APA). Academic performance is not the sole criterion for promotion to graduation or continuation in programs in the Department of Educational and Counselling Psychology, and Special Education. All program areas also require that candidates demonstrate interpersonal and ethical qualities commensurate with working in educational or counselling settings. **Master of Arts and Master of**

interpreted through a variety of theoretical lenses ~~(e.g., constructivist, cognitive, socio-cultural, social-developmental)~~. Students are encouraged to participate in educational research throughout their program. Coursework emphasizes four primary areas: a) life span development and education, b) design of learning environments, c) culture and diversity, and d) research methods including ~~, both~~ qualitative and quantitative, experimental and developmental. HDL~~A~~C graduates have found careers in a variety of settings including university teaching and research, social policy analysis, curriculum and program evaluation, community and business.

Doctor of Philosophy

Admission Requirements

Applicants must satisfy the general academic requirements of the Faculty of Graduate Studies, and have completed a thesis-based master's degree equivalent to the HDL~~A~~C M.A. program~~(or its equivalent)~~ with an overall ~~grade~~ average of at least 80%. ~~Applicants are also required to write the Graduate Record Examination (GRE) general test, and, if applicable, the TOEFL test.~~ Transfer from the M.A. to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

Doctoral students are expected to acquire a broad background within the field of educational psychology including a basic knowledge of theories, principles and models of learning/development, an understanding of developmental processes in the cognitive, social-emotional and cultural domains, an understanding of individual differences, atypical development, and individuals with exceptionalities, and familiarity with current approaches to research. Coursework is determined on an individual, case-by-case basis in an individualized program of graduate studies developed by the student in consultation with his/her faculty advisory committee. Assuming an appropriate background at the master's level, students are required to take two to four HDL~~A~~C content area courses at the advanced level (500- and 600-level), and at least one course (3 credits) from outside HDL~~A~~C that is relevant to one's primary area of specialization. Students must also participate in a year-long, department-wide doctoral seminar (EPSE 601), complete at least two advanced courses in research methodology (qualitative and/or

Education

The Department offers programs of study leading to master's degrees in the following areas:

- Counselling Psychology (CNPS): M.A. and M.Ed.
- Human Learning, Development and Instruction (HLDI): M.A. and M.Ed.
- Measurement, Evaluation and Research Methodology (MERM): M.A. and M.Ed.
- School Psychology (SCPS): M.A. and M.Ed.

Master's degrees in Counselling Psychology are available in the following programs accredited by the Council for the Accreditation of Counselling and Related Educational Programs: Community Counselling, Counselling in Higher Education, and School Counselling.

Master's degrees in Special Education are available with concentrations in General Special Education, Autism/Developmental Disabilities, Behaviour Disorders, Education of the Blind/Visually Impaired, Education of the Deaf/Hard of Hearing, High Ability, and Learning Disabilities.

A combined Special Education and Educational Administration program is offered and a combined Ts'Kel and Special Education program is also available to First Nations students and other interested in First Nations education.

With the exception of School Psychology, all master's programs in the Department are available on a full-time or part-time basis.

Additional information about the master's programs is provided in the brochures related to the area of specialization.

Academic performance is not the sole criterion for promotion to graduation or continuation in programs in the Department. All program areas also require that candidates demonstrate interpersonal and ethical qualities commensurate with working in educational or counselling settings.

Please refer to ***Education*** for information on general admission requirements.

Prospective applicants are encouraged to visit the **Educational and Counselling Psychology, and Special Education website**.

quantitative), and pass a comprehensive examination to demonstrate breadth and depth of knowledge in the field. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Arts

Admission Requirements

Applicants must satisfy the general academic requirements of the Faculty of Graduate Studies. Applicants should have successfully completed an undergraduate degree and have adequate background in learning and development-related courses in Psychology, Anthropology, Education and/or related disciplines (e.g., Social and/or Health Sciences) or equivalent experience as determined by the HDLC admissions committee. EPSE 481 Introduction to Research in Education (or equivalent) and EPSE 482 Introduction to Statistics for Research in Education (or equivalent) are required prerequisites for MA applicants.

~~Applicants are required to write the Graduate Record Examination (GRE) general test, and, if applicable, the TOEFL test.~~

Program Requirements

Students in the 30-credit HDL~~A~~C Master of Arts (M.A.) program are required to take three core courses: ~~Human Development in Education (~~EPSE 505~~)~~, ~~Applications of Educational Psychology (~~EPSE 501~~)~~, and ~~Cultural Perspectives on Learning, Development and Media (~~EPSE 503~~)~~, plus three elective courses either within the HDL~~A~~C area (EPSE 584~~, on motivation,~~ EPSE 585~~ on social-emotional development~~, EPSE 503~~ on cognition language and literacy processes~~, or 511~~ on a special topic~~) or outside the area, selected in consultation with the student's advisory committee. Two methodology courses, one in quantitative methods (e.g., EPSE 592), and one in qualitative methods (e.g., EPSE 595) are also required. In addition, students participate in a research seminar (EPSE 571) which is designed to facilitate progress toward completion of their master's thesis (EPSE 599 - 6 credits).

For B.C. teachers: The Teacher Qualification Service requires a capstone experience, satisfied in this program through the completion of the ~~(~~thesis~~)~~.

Course descriptions for Counselling Psychology courses are listed with the CNPS subject code in the course description section of this Calendar. Courses for all other program areas are listed with the EPSE subject code.

Contact Information

Department of Educational and Counselling Psychology, and Special Education
Faculty of Education
2125 Main Mall
Vancouver, BC V6T 1Z4
Tel: 604-822-5351
TDD: 604-822-8229
Fax: 604-822-3302
Email: **lynda.mcdicken@ubc.ca**
Website: **www.ecps.educ.ubc.ca**

Tel (Counselling Psychology): 604-822-6371
Fax (Counselling Psychology): 604-822-2328
Email (Counselling Psychology): **karen.yan@ubc.ca**

Ms. Lynda McDicken, Graduate Program Assistant, ECPS
Ms. Karen Yan, Graduate Secretary, Counselling Psychology

Type of Action:

Program Name Change, & Edit Calendar entry.

Rationale:

The addition of "Human" to the program name brings the program name in line with current usage in this field, where "human development" is the most pervasive usage. Prior to 2004, this program was called "Human Development, Learning and Instruction", which was changed to "Development , Learning and Culture". What is needed, for recruitment purposes, in particular, is a program name that provides easy recognition in web searches and the like. "Human Development, Learning and Culture" will best serve this purpose.

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

~~TQS~~

Master of Education

Admission Requirements

Applicants must satisfy the general academic requirements of the Faculty of Graduate Studies. Applicants should have successfully completed an undergraduate degree and have adequate background in learning and development-related courses in Psychology, Anthropology, Education and/or related disciplines (e.g., Social and/or Health Sciences) or equivalent experience as determined by the HDLC admissions committee.

~~Applicants are required to write the Graduate Record Examination (GRE) general test, and, if applicable, the TOEFL test.~~

Program Requirements

Students in the 30-credit HDL~~A~~C M.Ed. program are required to take three core courses: ~~Human Development in Education (~~EPSE 505~~)~~, ~~Applications of Educational Psychology (~~EPSE 501~~)~~,~~ and Cultural Perspectives on Learning, Development and Media (~~EPSE 503~~)~~, plus four elective courses either within the HDL~~A~~C area (EPSE 584~~ on motivation~~, EPSE 585~~ on social-emotional development~~, 503~~ on cognition language and literacy processes~~, or EPSE 511~~ on a special topic~~) or outside the area, selected in consultation with your advisory committee. Two additional elective courses are also required, selected in consultation with the student's program advisor. At the end of their program, students participate in a required Graduating Seminar (EPSE 590), which is designed as a 'capstone experience' that brings together their goals and objectives as well as their accomplishments and experiences throughout the program in the development of a professional portfolio.

For B.C. teachers: The Teacher Qualification Service requires a capstone experience satisfied in this program through th~~e~~ G~~g~~raduating Seminar project (EPSE 590).

~~TQS~~

Contact Information: Department of Educational & Counselling Psychololgy, & Special Education 2125 Main Mall Vancouver, BC V6T 1Z4 **Tel:** 604-822-5351 **Fax:** 604-822-3302 **Email:** ecps.gradinfo@ubc.ca **Web:** www.ecps.educ.ubc.ca ~~**Lynda McDicken**~~, Graduate Program Assistant Derek Gagnier	

THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

16 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **FACULTY OF MEDICINE CURRICULUM REPORT**

Attached please find the recommended Category 1 undergraduate curriculum proposals from the Faculty of Medicine.

1) The following new course:
    a. INDE 400 (2) Self-directed Senior Elective

2) The following changed course:
    a. INDE 453 (6) Preparation for Medical Practice

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (1)

Faculty: Medicine **Department: MD Undergraduate Program** **Faculty Approval Date: September 25, 2006** **Effective Session __W__ Term ___ Year_2007__ for Change**	**Date: September 29, 2006** **Contact Person: Dr. A. Towle** **Phone: 604 875-5153** **Email: atowle@interchange.ubc.ca**
Proposed Calendar Entry: **INDE 400 (2) Self-directed Senior Elective in Clinical or Academic Medicine** A fourth-year self-directed elective to advance students' learning in clinical or academic medicine.	**URL:** (URL from the current web Calendar – not the draft calendar. This URL is not needed if you are only making changes to individual courses - for course entries simply list the course number.) **Present Calendar Entry:** None **Type of Action:** New self directed INDE Course Required **Rationale:** Due to reconfiguration of fourth year of the MD program, it is necessary to have a self directed elective in the month of February. The elective is designed to be self directed to give students the flexibility to arrange a program that allows them to attend the interviews for postgraduate positions that take place during this month. Students would submit a proposal for their self –directed elective to be approved by faculty. The elective could be clinical or academic (e.g. research project). The current fourth year curriculum was implemented in 2000. Two reviews were conducted by the MD Undergraduate Program in 2002 (of Years 3 and 4) and 2003 (of Year 4 in more detail). In view of medical school expansion it was decided to defer implementing changes to Year 4 until 2007 when the first expansion class would be entering into fourth year. Both of the reviews advocated the abolition of the current "phases"; the development of a more rigorous senior clerkship program in

	fourth year; and the integration of important curriculum themes currently taught in INDE 453 (Phase VI), such as ethics and evidence based medicine, throughout clinical education. In addition to bringing forward the recommendations from previous reviews, this proposal addresses the new opportunities and challenges of the distributed program. While students in the distributed sites will not be required to return to Vancouver for their program, the proposal will allow all students to participate in existing and new clinical experiences that make use of the variety of clinical settings across the province. When you have supporting documents for Category 1 proposals please label each document with the course number, or the name of the program, being proposed.
Faculty: Medicine **Department: MD Undergraduate Program** **Faculty Approval Date: September 25, 2006** **Effective Session __2007W__ Term ___ Year___ for Change**	**Date: September 29, 2006** **Contact Person: Dr. A. Towle** **Phone: 604 875-5153** **Email: atowle@interchange.ubc.ca**
Proposed Calendar Entry: INDE 453 (6) Preparation for Medical Practice Diagnostics; therapeutics; information management; evidence based practice; professionalism and ethics; cultural competence; advanced communication skills; patient safety; health and wellness; health care team.	**URL: INDE 453** (URL from the current web Calendar – not the draft calendar. This URL is not needed if you are only making changes to individual courses - for course entries simply list the course number.) **Present Calendar Entry:** **INDE 453 (10) Effective Learning Skills for Medical Practice** A 10-week full-time course that consists of 6 components: weekly themes with associated 2-hour lecture series; therapeutics; health care and epidemiology; advanced communication skills; cross-cultural healthcare ethics/law and politics. **Type of Action:** 1. Decrease credits from 10 to 6 2. Change title to Preparation for Medical

	Practice 3. Modify course description to include additional topics that address emerging important themes in medical education and ensure the curriculum remains up to date. 4. Change grading from H/P/F to P/F. **Rationale:** The current fourth year curriculum was implemented in 2000. Two reviews were conducted by the MD Undergraduate Program in 2002 (of Years 3 and 4) and 2003 (of Year 4 in more detail). In view of medical school expansion it was decided to defer implementing changes to Year 4 until 2007 when the first expansion class would be entering into fourth year. Both of the reviews advocated the abolition of the current "phases", the development of a more rigorous senior clerkship program, and the integration of important curriculum themes currently taught in INDE 453 (Phase VI), such as ethics and evidence based medicine, throughout clinical education. In addition to bringing forward the recommendations from previous reviews, this proposal addresses the new opportunities and challenges of the distributed program. While students in the distributed sites will not be required to return to Vancouver for their program, the proposal will allow all students to participate in existing and new clinical experiences that make use of the variety of clinical settings across the province. The content of the proposed Preparation for Medical Practice course is based on current INDE 453 objectives supplemented with new objectives related to diagnostics, and emerging important topics in medicine such as patient safety, health and wellness and the health care team.

THE UNIVERSITY OF BRITISH COLUMBIA

Enrolment Services
Senate and Curriculum Services
1874 – 2016 East Mall
Vancouver, BC
V6T 1Z1

16 January 2007

To: Senate
From: Senate Curriculum Committee

Re: **FACULTY OF SCIENCE CURRICULUM REPORT**

Attached please find the recommended Category 1 undergraduate curriculum proposals from the Faculty of Science.

Course	Title	Action
BIOL 490 (3)	Student Directed Seminars	New Course
EOSC 321 (3)	Igneous and Metamorphic Petrology	Change to course title, description, and pre-requisites
PHYS 305 (3)	Introduction to Biophysics	Change to pre-requisites and course description.

Contact: Dr. Bill Ramey
Phone: 822-3300

Faculty Approval Date: Oct. 25, 2006

Email: wramey@interchange.ubc.ca

BIOLOGY

Effective Date for Change: 07S

Proposed Calendar Entry:

BIOL 490 (3) Student Directed Seminars. Self-directed, collaborative studies, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrolment, and delivery methods will comply with the "Handbook for Student Directed Seminars". Normally not suitable as a specific BIOL Program elective. [3-0-0]
Prerequisite: Third-year standing.

Present Calendar Entry:
None.

Action: New course with pass/fail and percent graded sections.

Rationale: We have been offering student directed studies under the number BIOL 448. Sometimes these courses are set up as pass/fail and this requires setting up a section of BIOL 448 structured for pass/fail. We herein propose to create a new course, BIOL 490 for the purpose of future student directed seminars.

Supporting Documents: SCI-06-1-BIOL 490

EARTH AND OCEAN SCIENCES	
Effective Date for Change: 07W **Proposed Calendar Entry:** EOSC 321 (3) **Igneous and Metamorphic Petrology.** **The origin and formation of igneous and metamorphic rocks.** [2-3-0] Prerequisite: EOSC 221, **EOSC 327**. **Co-requisite: EOSC 333**.	**Present Calendar Entry:** EOSC 321 (3) ~~**Principles of Igneous Processes.** Study of igneous processes with emphasis on the origins of volcanic rocks and deposits.~~ [2-3-0] Prerequisite: EOSC 221. **Action:** Change course title, description and prerequisites. Add co-requisite. **Rationale:** EOSC is consolidating and reorganizing teaching of petrology and geochemistry. We are combining the content of two courses, EOSC 321 Principles of Igneous Processes and EOSC 322 Metamorphic Petrology, into a single course. The material removed is covered in other upper-division EOSC courses. **Supporting Documents:** SCI-06-1-EOSC 321

PHYSICS AND ASTRONOMY

Effective Session: 06W **Proposed Calendar Entry:** PHYS 305 (3) Introduction to Biophysics. **Physical principles involved in biological systems at the microscopic and molecular scales. Topics include diffusion, low Reynolds number dynamics, the physicist's view of biomolecular structure, models of molecular motors and membranes.** **Prerequisite: One of PHYS 203, PHYS 257, PHYS 313, CHEM 201, CHEM 205 and one of PHYS 102, PHYS 108, PHYS 153.**	**Present Calendar Entry:** PHYS 305 (3) Introduction to Biophysics. ~~An introduction for physicists (assumed to have no background in biology) to the basics of molecular biology, followed by selected examples where insights from physics and mathematics have helped solve important biological problems. Intended for students with third or fourth year standing in physics. Not for credit for life science students. Prerequisite: a minimum third year standing in Science.~~ **Action:** Change prerequisites to include specific courses. Remove statement that course is not for credit for Life Science students. Replace existing generic description of course content with more specific information on the topics that are included in the course. **Rationale:** Since the introduction of the Honours Biophysics program, PHYS 305 has been updated to accommodate the needs of the Biophysics students by reflecting advances in the field and the improved biological background of the students. The course is now a more rigorous examination (from mathematical and thermodynamic perspectives) of microscopic and molecular level biological processes. Specific course prerequisites in place of "third year standing in Science" clarify the level of background that is required, and make the course more accessible to students in other faculties (eg. biomedical engineering students in Applied Science). The introductory biological material in this course is now very small, and there is no reason to exclude biology or biochemistry students who have a sufficient background in thermodynamics. **Supporting Documents:** SCI-06-1-PHYS 305

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email: joyce.tom@ubc.ca**
Proposed Calendar Entry: **Audiology and Speech Sciences** **Degrees Offered: Ph.D. M.Sc.** ***Members*** **Professors** **Associate Professors** **Assistant Professors** ***Program Overview*** The School of Audiology and Speech Sciences endeavours to advance knowledge of human communication and its disorders by actively engaging in research, and by educating individuals to become audiologists, speech-language pathologists, and researchers. In its teaching and research programs, the School emphasizes both the importance of basic science to the understanding of communication disorders and the relevance of clinical data to theories of human communication. The School's Master of Science and Doctor of Philosophy programs are designed to insure that graduates are grounded in the basic and applied sciences, can address complex communication problems within an	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,207 **Present Calendar Entry:** ***Audiology and Speech Sciences*** **Degrees Offered** *M.Sc.* *Ph.D.* **Doctor of Philosophy** The School of Audiology and Speech Sciences offers a program leading to the Doctor of Philosophy with specialization in one of the following areas: neurolinguistics/linguistic aphasiology, developmental phonetics and phonology, language acquisition, developmental language disorders, discourse analysis, phonological and phonetic disorders, speech understanding in the elderly, electrophysiologic and otoacoustic emissions diagnosis, and hearing science. A brochure giving details of this program is available from the School's office. **Master of Science** The School of Audiology and Speech Sciences offers a post-graduate program leading to the Master of Science. This program is primarily designed to provide the scientific and clinical education necessary for the professions of audiology and speech-language pathology. These professional fields require a thorough understanding of human communication and its disorders. The Master of Science program thus builds upon background studies in linguistics, psychology, acoustics, physiology and other

interdisciplinary framework, and understand the relevance of theory in research as well as practical endeavours.

Doctor of Philosophy

The School of Audiology and Speech Sciences offers a program leading to the Doctor of Philosophy with specialization in one of the following areas: neurolinguistics/linguistic aphasiology, developmental phonetics and phonology, language acquisition, developmental language disorders, discourse analysis, phonological and phonetic disorders, speech understanding in the elderly, electrophysiologic and otoacoustic emissions diagnosis, and hearing science.

Admission Requirements

An applicant to the doctoral program should have completed a Master's degree, typically in Audiology and Speech Sciences, Psychology, Linguistics, or a related discipline.

Eligibility for admission will be decided by the **Doctoral Studies Committee**. The committee will consist of the Graduate Advisor and a minimum of three other full members of the graduate faculty who are full-time faculty at the School. For details, please see www.audiospeech.ubc.ca/programs/phdentry.htm

Program Requirements

Students are required to take courses in research methodology and in major and minor areas of specialization, with the sequence of courses and seminars totaling at least 18 credits beyond the Master's degree.

All doctoral students are required to successfully complete a comprehensive examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science

The School of Audiology and Speech Sciences offers a post-graduate program leading to the Master of Science. This program is primarily designed to provide the scientific and clinical education necessary for the professions of audiology and speech-language pathology. These professional fields require a thorough understanding of human communication and its disorders. The Master of Science program thus related disciplines, and incorporates both basic and applied science. After completing basic level courses, students pursue advanced work in a professional specialty, i.e. either audiology or speech-language pathology. Supervised clinical externships are provided in hospitals, schools, rehabilitation centres, and other service settings throughout the Province of British Columbia. Graduates of the clinical education program will have completed the academic and practical requirements for professional certification. This program will usually require 24 to 36 months to complete, depending upon the student's academic preparation.

Contact Information

See *The School of Audiology and Speech Sciences* for a more detailed description of the School's philosophy, curriculum and application procedures.

School of Audiology and Speech Sciences
Faculty of Medicine
James Mather Building
5804 Fairview Avenue
Vancouver, BC V6T 1Z3
Tel: 604-822-5591
Fax: 604-822-6569
Email: sue@audiospeech.ubc.ca
Website: www.audiospeech.ubc.ca

Ms. Sue Bryant, Program Assistant

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

builds upon background studies in linguistics, psychology, acoustics, physiology and other related disciplines, and incorporates both basic and applied science. After completing basic level courses, students pursue advanced work in a professional specialty, i.e. either audiology or speech-language pathology. Supervised clinical externships are provided in hospitals, schools, rehabilitation centres, and other service settings throughout the Province of British Columbia. Graduates of the clinical education program will have completed the academic and practical requirements for professional certification. This program will usually require 24 to 36 months to complete, depending upon the student's academic preparation. The School's Master of Science graduates meet the requirements for professional practice in audiology or speech-language pathology in Canada.

Admission Requirements

Admission is on a competitive basis. Students admitted to the M.Sc. degree program must meet the general admission requirements for Master's degree programs set by the Faculty of Graduate Studies. Applicants must also have appropriate undergraduate preparation as defined below.

For students seeking to specialize in Audiology, the routes for preparation are diverse and could include an undergraduate degree in, for example, linguistics, psychology, biology, or physics.

For students seeking to specialize in Speech-Language Pathology find that degree programs in Linguistics or Psychology are the best route to achieving the necessary undergraduate preparation for the M.Sc. degree program.

Students with other academic backgrounds who have outstanding academic records and who are interested in applying to either specialization stream should write to the Chair of the School's Admissions Committee with the details of their academic preparation.

For details, please see www.audiospeech.ubc.ca

Program Requirements

Completion of the Master of Science requires fulfillment of the prerequisite requirements, completion of a minimum of 30 credits total, including graduate coursework, externships and a thesis or graduation paper. Grades of 68% (B-) or higher are required in at least three of the clinical externship courses. These requirements are most commonly met in the course of study described on

the School's website.

Contact Information:

School of Audiology and Speech Sciences
James Mather Bldg., 5804 Fairview Avenue
Vancouver, BC V6T 1Z3

Tel: 604-822-5591
Fax: 604-822-6569
Email: inquiry@audiospeech.ubc.ca
Web: www.audiospeech.ubc.ca

Sue Bryant, Program Assistant

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Classics** **Degrees Offered: Ph.D. M.A.** ***Members*** **Professors** A. A. Barrett, S. D. Sullivan, R. Todd, E. H. Williams. **Associate Professors** D. Arbel, P. C. Burns, R. Cousland, F. De Angelis, R. Menkis, P. G. Mosca, D. Neufeld. **Assistant Professors** L. Bablitz, E. Cooper, D. Creese, R. Daum, T. Hikade, C. Johnson, C. Marshall, M. Yazigi. ***Program Overview*** The Classics graduate program offers courses of instruction leading to both the Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.). The M.A. in Classics is taken by concentrating on one of three fields: (a) Latin and Greek; (b) Latin; (c) Greek. The Ph.D. in Classics offers a core program in Latin and Greek language and literature, and also less language-intensive options in Classical Archaeology and Ancient History.	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,217** **Present Calendar Entry:** **Degreees Offered** *M.A.* *Ph.D.* **Classics and Classical Archaeology** **Master of Arts and Doctor of Philosophy** The thesis for the M.A. in Classics may be written in one of the following: Greek language and literature, Latin language and literature, Greek history, Roman history, Greek or Roman archaeology, or ancient philosophy. Major essays may be written in any of these fields by students following the M.A. program with comprehensive examinations. The comprehensive examinations may be weighted toward Greek or Latin studies without concentrating exclusively on either. Satisfactory knowledge of both Latin and Greek is required. The M.A. in classical archaeology is awarded for successful completion of 30 credits of course work, a major essay, and comprehensive examinations. Brochures describing the M.A. and Ph.D. programs are available from the Department of Classical, Near Eastern, and Religious Studies. **Ancient Culture, Religion and Ethnicity in the Mediterranean and the Near East (ACRE)**

Doctor of Philosophy

Admission Requirements

Prerequisites for the Ph.D. include either (1) an M.A. in Classics or equivalent, or (2) in exceptional cases, an honours B.A. with First class standing and clear demonstration of advanced research ability. Transfer from the M.A. to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

For details on the prerequisites and the Graduate Regulations (including language prerequisites and requirements), see {H| http://cnrs.arts.ubc.ca/index.php?id=3743|website}.

Program Requirements

Students are required to take 18 credits of graduate courses beyond the MA. These courses are to be chosen in consultation with the Classics Graduate Adviser. Students may, with permission of the Graduate Committee, take a maximum of 3 credits in 500 level courses in other departments. In addition, the program requires reading knowledge of two modern languages appropriate to the field of study and preliminary examinations. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

For details program requirements, see {H| http://cnrs.arts.ubc.ca/index.php?id=3743|website}.

Master of Arts

Admission Requirements

Prerequisites for the M.A. program include a Bachelor of Arts in Classics or equivalent.

Entry into the program requires a minimum of 18 credits in Greek and/or Latin courses at the 400 level. Students who have completed fewer credits than the above will be required to complete an unclassified year.

Master of Arts

Applicants for admission must meet the minimum requirements of the Faculty of Graduate Studies. This program will involve a broad, multidisciplinary approach to the Ancient Mediterranean and Near Eastern worlds. Cross-cultural perspectives will be encouraged. This program will involve a broad, multidisciplinary approach to the Ancient Mediterranean and Near Eastern worlds. Cross-cultural perspectives will be encouraged.

To be admitted with full standing applicants must hold a bachelor's degree. This will normally be in Classics (Latin and Greek), Classical Studies (non-language program), or Near Eastern/Religious Studies, but could be in a related discipline (e.g. Anthropology, History, Philosophy, Political Science, etc).

Well qualified and highly recommended applicants with the equivalent of a Minor (30 credits) in one of the above areas will be required to complete a further 12 credits during the first year of graduate study. Undergraduate courses taken to complete the Major do not count for credit towards the Master's degree.

Students who do not meet admission requirements may, in exceptional circumstances, and within the limits set down by the Faculty of Graduate Studies, be admitted as qualifying students until they obtain the necessary prerequisites for full admission.

Applicants must have completed at least 6 credits (or equivalent) in one of the classical languages prior to admission (minimum grade: B-/68%): GREK 100 (Introductory classical Greek) or GREK 125 (New Testament Greek) or LATN 100 (Introductory Latin) or HEBR 305 (Introductory Biblical Hebrew) or ARBC 300 (Introductory Classical Arabic). It is strongly recommended that applicants have completed two years of language study before entrance.

Religious Studies

Master of Arts

Advanced study in Religious Studies is offered in the Department of Classical, Near Eastern, and Religious Studies. Candidates may choose any one of the following areas of concentration: Biblical studies; Judaic studies; Christian thought and institutions; Islamic studies; history of religion. The candidate may select a program with thesis (30 credits in course work, including

For details on the language prerequisites and requirements, see program's {H| http://cnrs.arts.ubc.ca/index.php?id=3746|website}.

Program Requirements

There are two options for the Master of Arts.; 1. Thesis Option. In exceptional cases students who have completed 24 credits of Latin and/or Greek at the 400-level before entering the program will be allowed to attain the degree by course work and thesis. Under this option the thesis counts for 12 credits. The remaining 18 credits must be in Latin and Greek courses numbered 500 or above

2. Course-based Option. The degree will normally be attained by 30 credits of course work in Latin and Greek, reading examination(s), and a major essay. Of the 30 credits, at least 24 must be numbered 500 or above, while the remaining six may, at the discretion of the program, be at the undergraduate level.

Contact Information:

Classical, Near Eastern & Religious Studies
Buchanan C260, 1866 Main Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-2515
Fax: 604-822-9431
Email: cnrs@interchange.ubc.ca
Web:
http://cnrs.arts.ubc.ca/index.php?id=3743

Christine Dawson, Graduate Secretary

12 credits for thesis) or without thesis (30 credits in course work, in addition to comprehensives and major essay). A competent reading knowledge of the appropriate languages must be acquired before writing the thesis or comprehensives and major essay.

Further information regarding the M.A. is available on application to the Department. Brochures describing the program in more detail are also available on request. For information regarding programs in Asian Religions consult the Asian Studies Department.

Contact Information

Department of Classical, Near Eastern and Religious Studies
BUCH C260
1866 Main Mall
Vancouver, BC V6T 1Z1
Tel: 604-822-2515
Fax: 604-822-9431
Email: **crdawson@interchange.ubc.ca**
Website: **www.cnrs.ubc.ca**

Ms. Christine Dawson, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Comparative Literature** **Degrees Offered: Ph.D. M.A.** ***Members*** **Professors** J. X. Cooper, M. S. Duke, E. Durbach, M. Fee, A. V. Globe, G. Good, D. J. Gregory, S. E. Grace, E.-M. Kröller, J. O'Brian, G. J. Pratt, V. A. Raoul, R. Sarkonak, M. L. Weir. **Associate Professors** V. D. Arbel, D. Boccassini, P. C. Burns, R. A. Cavell, R. F. De Grandis, N. S. N. Godfrey, N. Frelick, C. M. S. Hellwig, A. Lamontagne, T. M. Kemple, B. S. McIlroy, J. S. Mostow, D. Neufeld, P. Petro, T. Salumets, A. Smith, S. Taubeneck, C. Testa, M. Vessey, G. H. Winthrop-Young. **Assistant Professors** G. Onyeoziri-Miller, W. G. Winder. ***Program Overview*** While retaining a primary focus in the study of literary texts, the Program in Comparative Literature attempts to bridge the gaps which have arisen as a result of the institutional compartmentalization of knowledge, and thus to arrive at a more productive understanding of literature in global contexts. Through courses in the history of literary theory and in current developments	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,220 **Present Calendar Entry:** **Degrees Offered** *M.A.* *Ph.D.* **Program Overview** The Program in Comparative Literature offers opportunities for advanced intercultural/interdisciplinary study leading to the Doctor of Philosophy and Master of Arts. Fields of study include literary theory, Asian literature, and the major literatures of Europe and of the Americas. Undergraduates who are interested in preparing for the degrees should acquire competence in at least two languages other than their native language. In addition, comprehensive knowledge of at least one, and preferably two, literatures should be acquired through study in a double major program or through the honours program of one of the language departments. Thirty credits of course work are required for the non-thesis M.A., 24 for the M.A. with thesis, and 18 for the Ph.D. Normally, in the second year, Ph.D. students will write their candidacy examinations and then proceed to the thesis. Details of seminars to be offered each year are given in the program brochure, *Comparative Literature Courses*. For detailed requirements concerning the M.A., with or without thesis, and for the Ph.D., a *Handbook for Graduate Students in Comparative Literature* is available from the Program in Comparative Literature. A full description and additional information is available on the **Comparative Literature website**. **Contact Information**

in this rapidly expanding field, the program seeks to provide a foundation for the study of interrelationships among discourse systems in the humanities and social sciences. Students select from a range of courses in Comparative Literature, in the national literatures studied in their original languages, and in other related disciplines in order to develop a coherent program of individual study which will have its own logic and lead to interdisciplinary work of a high order.

Comparative Literature studies at the University of British Columbia may be grouped under four major headings. (Note that in each case texts in at least two different languages must be involved.)

1. Comparisons across linguistic and cultural groups,
2. Comparisons among the Arts,
3. Comparisons across discourse systems,
4. Comparisons involving Western poetics and literary theory.

For detailed information about the program and its requirements, please see the Comparative Literature {H|complit.arts.ubc.ca|website}.

Doctor of Philosophy

Admission Requirements

The Ph.D. represents the culmination of education in the discipline of Comparative Literature. Applicants must have fluency in three different languages including English and knowledge of literary texts studied in the three original languages. Normally an M.A. degree with First class standing is the prerequisite for admission. Applicants from certain countries outside North America, Great Britain, and Europe may be required to enroll in the M.A. program even if they already possess an M.A. degree. Students with a high A standing and fluency in three languages who have passed the Qualifying Examination have the option of transferring into the Ph.D. program after one year of master's study. The languages studied must be available (taught) at the graduate level at UBC.

For detailed information, please consult the program {H|complit.arts.ubc.ca|website}.

Program in Comparative Literature
Buchanan C258, 1866 Main Mall
Vancouver, BC V6T 1Z1
Tel: 604-822-5157
Fax: 604-822-9431
Email: **crdawson@interchange.ubc.ca**
Website: **complit.arts.ubc.ca**

Mrs. Christine Dawson, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

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Program Requirements

Ph.D. studies consist of at least 18 credits of coursework. Additional coursework may be selected in consultation with the student's supervisory committee. All doctoral students are required to complete a candidacy examination successfully. The candidacy examination consists of four written papers and an oral examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Arts

Admission Requirements

Applicants to the M.A. in Comparative Literature at UBC must have academic education in the literature of three languages (English may be chosen) and have studied in the original three languages during their final two years as undergraduates. Language competence will be established by obtaining at least a high second-class grade in a fourth-year course (six credits) in that language. Senior courses with a literary or theoretical focus will be accepted for entrance into Comparative Literature, but senior level courses in areas such as composition, reading knowledge, the translation of technical documents, will not be accepted. The languages studied must be available at the graduate level at UBC.

For detailed information, please consult the program {H|complit.arts.ubc.ca|website}.

Program Requirements

M.A. studies consist of 30 credits (the equivalent of five one-year courses), occasionally more for students who have been admitted before fulfilling all undergraduate preparation. While students who enter the Programme with a comprehensive Bachelor's degree including literary education in three different languages, one of which may be English, can complete the degree within twelve months, most students take two years. Those who continue past the second year will normally not be eligible for financial assistance from the Department.

M.A. candidates in the Comparative Literature Program who have their advisor's permission and are accepted by the instructor of the course in translation may include a translation in partial satisfaction of their thesis requirements.)

Contact Information:

Program in Comparative Literature
Buchanan C258, 1866 Main Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-5157
Fax: 604-822-9431
Email: complit@interchange.ubc.ca
Web: complit.arts.ubc.ca

Christine Dawson, Graduate Secretary

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Counselling Psychology** **Degrees Offered: Ph.D. M.A. M.Ed.** ***Members*** **Professors** N. Amundson, W. Borgen, J. Daniluk, S. Kahn, B. Long, M. Westwood, R. Young. **Associate Professors** M. Arvay, B. Haverkamp, I. Ishiyama, S. James, R. McCormick, I. Schultz. **Assistant Professors** L. Miller. ***Program Overview*** The Counselling Psychology (CNPS) program offers Ph.D., M.A., and M.Ed. programs. The Ph.D. program is accredited by the Canadian and American Psychological Associations, and the master's programs are being reviewed for accreditation by the CCA Council on Accreditation of Counsellor Education Programs. Faculty members are involved in a wide range of research activities including intercultural counselling, First Nations counselling, career development and counselling, stress and coping, sexuality and reproductive health, disabilities, trauma, working with families and children in school settings, prevention of anxiety disorders, and empirically supported approaches utilizing	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,229 **Present Calendar Entry:** **Doctor of Education, Doctor of Philosophy, Master of Education, Master of Educational Technology and Master of Arts** Graduate programs in education are offered by various units in the Faculty of Education, as well as by the Faculty as a whole: ▪ The Department of Curriculum Studies offers graduate programs in art education, business education, home economics education, mathematics education, music education, physical and health education, science education, social studies education, technology studies education, and curriculum studies. ▪ The Department of Educational and Counselling Psychology, and Special Education offers graduate programs in counselling psychology; educational psychology; human learning, development and instruction; measurement, evaluation and research methodology; school psychology; and special education. ▪ The Department of Educational Studies offers graduate programs in adult education, educational administration, higher education, history of education, philosophy of education, sociology of education, educational studies and educational leadership and policy. ▪ The Department of Language and Literacy Education offers graduate

both quantitative and qualitative methodologies.

Doctor of Philosophy

Admission Requirements

Applicants must satisfy the general academic requirements of the Faculty of Graduate Studies, and have completed a thesis-based master's degree equivalent to the CNPS M.A. in counselling (or its equivalent) with an overall grade average of at least 80%. Applicants are also required to write the Graduate Record Examination (GRE) general test, and, if applicable, the TOEFL test. .

Program Requirements

The Ph.D. program is designed to educate counselling psychologists as researchers, practitioners, and educators. The focus of the program is on developing doctoral level competence in research, counselling theory and counselling skills. The program involves completion of 51 credits of coursework, theory and specialty comprehensive examinations, a 1600 hour internship and a dissertation meeting the Faculty of Graduate Studies requirements. In order for students to meet deadlines for comprehensive examinations and candidacy, the department requires students to be engaged in full time study prior to advancement to candidacy.

Master of Arts

Admission Requirements

Applicants must satisfy the general academic requirements of the Faculty of Graduate Studies. In addition, applicants should have completed senior undergraduate courses in each of learning, statistics and either abnormal psychology or behaviour disorders. CNPS 362, 363 and 365 also are required prerequisites. Applicants should have a minimum of three years work/volunteer experience that involves helping relationship with children, adolescents and/or adults. Applicants are required to write the Graduate Record Examination (GRE) general test, and, if applicable, the TOEFL test.

Program Requirements

The program requires completion of 48 credits of course work and a 6-credit thesis. In addition to offering core courses in programs in English as a second language literacy education, modern languages education and teacher librarianship.

- The Centre for Cross-Faculty Inquiry in Education offers graduate programming focused on themes that reflect interestes from across the Faculty of Education.
- The Faculty of Education offers a joint online degree program in partnership with Tec de Monterrey, a Mexican university that specializes in online education. It provides students with an opportunity to participate with a culturally diverse student population.

Where appropriate, joint programs, which involve collaboration among the areas listed above, or which involve an area outside the Faculty of Education, can be arranged. For information on Graduate Certificates and Off-Campus Graduate work see ***Graduate Programs*** under the Faculty of Education section in this Calendar.

Master's Degrees

Students seeking entry to the Master of Arts (M.A.) in Education and the Master of Educational Technology (M.E.T.) programs should consult the individual program or unit for information regarding specific admission requirements. These are also outlined in the individual websites listed below:

- **Dept. of Curriculum Studies**
- **Dept. of Educational & Counselling Psychology, and Special Education**
- **Counselling Psychology Program**
- **Dept. of Educational Studies**
- **Dept. of Language and Literacy Education**
- **School of Human Kinetics**
- **Centre for Cross-Faculty Inquiry in Education**
- **Master of Educational Technology**

For information on off-campus graduate work please **email** or phone 604-822-2013.

research, counselling theory and skill acquisition/practica, the program provides the opportunity for students to focus on one of the three areas recognized by the organization that accredits the program (CACEP). These areas of focus are School Counselling, Counselling in Higher Education, Community and Agency Counselling. The program may be completed on a full- or part-time basis.

Master of Education

Admissions Requirements

Applicants must satisfy the general academic standards of the Faculty of Graduate Studies. In addition, applicants should have completed senior undergraduate courses in each of learning, statistics and either abnormal psychology or behaviour disorders. CNPS 362, and 365 also are required prerequisites. Applicants should have a minimum of three years work/volunteer experience that involves helping relationship with children, adolescents and/or adults. If applicable, applicants are required to write the TOEFL test.

Program Requirements

The program requires completion of 48 credits of coursework. In addition to offering core courses in counselling theory, skill acquisition/practica and research the program provides the opportunity for students to focus on one of the three areas recognized by the organization that accredits the program (CACEP). These areas of focus are School Counselling, Counselling in Higher Education, Community and Agency Counselling. The program may be completed on a full- or part-time basis.

Contact Information:

Department of Educational and Counselling Psychology, and Special Education
2125 Main Mall
Vancouver, BC V6T 1Z4

Tel: 604-822-5351
Fax: 604-822-3302
Email: ecps.gradinfo@ubc.ca
Web: www.ecps.educ.ubc.ca/cnps/

, Graduate Program Assistant

Contact Information

General information on graduate programs in education may be obtained from the Office of Graduate Programs and Research.

Faculty of Education
2125 Main Mall, Room 2601
Vancouver, BC V6T 1Z4
Tel: 604-822-5512
Fax: 604-822-8971
Email: **ogpr@interchange.ubc.ca**

Prospective applicants are encouraged to visit the **Education Graduate Programs website**.

Type of Action:

Edit Calendar entry.

Rationale:

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THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Creative Writing** **Degrees Offered: M.F.A.** ***Members*** **Professors** S. Alderson, K. Maillard. **Associate Professors** P. Thompson, L. Svendsen, B. Wade. **Assistant Professors** M. Cadell, R. Tregebov, M. Medved. ***Program Overview*** The Creative Writing Program offers two streams of study leading to the Master of Fine Arts (M.F.A.). The first is a two year resident program. The second is an online distance program with part-time and residency options (see website for genres). See also Creative Writing/Film and Creative Writing/Theatre calendar entries The Creative Writing Program publishes ***PRISM international*** and *FUGUE*; resident graduate students participate in the editing and production of the magazines. **Master of Fine Arts**	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,223** **Present Calendar Entry:** **Degrees Offered** *M.F.A.* **Program Overview** The Creative Writing Program offers a two-year course of resident study leading to the Master of Fine Arts (M.F.A.). Candidates may choose to take the M.F.A. in Creative Writing, or concentrate in playwriting in conjunction with the Theatre Program (CRWR/Theatre). The joint Creative Writing and Film Program (CRWR/Film) requires that the candidate must be accepted by the Film Program first before applying to the CRWR/Film Program. Consult the **Film Program website**. The deadline for receiving (not postmarked) manuscripts is November 5, 2004 for September 2005 entrance date. Late manuscripts will not be considered. Candidates for the Creative Writing Program should submit work in two or more of the genres listed in the brochure, specifying which is their major area of interest. Short and long fiction are considered one genre. Candidates who intend to focus on translation should submit translated material in any of the above genres and a sample of their own original creative writing. Consult the **Department website** or **email** for more information. Admission to the M.F.A. in Playwriting is on the basis of a script submission, including some work in another genre, and also relevant course work in theatre at the undergraduate level or equivalent.

Admission Requirements

Applicants must satisfy the general requirements set by the Faculty of Graduate Studies and should submit work in two or more of the genres listed in the Creative Writing brochure, specifying which is their major area of interest. Short and long fiction are considered one genre. Applicants who intend to focus on translation should submit translated material in any of the above genres and a sample of their own original creative writing. Consult the Creative Writing Program website or email for more information.

The deadline for receiving (not postmarked) manuscripts is first Friday of November, for the following September entrance date. Late manuscripts will not be considered. Length of the manuscripts accompanying the application depends on choice of genres. Guidelines are available from the Creative Writing Program Office or on the {H|www.creativewriting.ubc.ca|program's website}.

Program Requirements

During the two years of the program, a minimum of 36 credits of coursework must be completed, including a minimum of 18 credits at the graduate level and a 6-credit thesis. (A reduction of the second-year residency requirement will be considered in exceptional circumstances.) The Creative Writing Program consists of work in three genres, chosen in consultation with the program advisor, as described in the program brochure.

The thesis consisting of a full-length work in the area(s) of their special interest will be completed in the second year. The thesis may be a substantial revision and extension of work done during the first year. A work of translation may be used to fulfill the thesis requirement by students with the required ability and linguistic knowledge.

Students may be required to take advanced creative writing undergraduate courses as part of their programs.

Contact Information:

Creative Writing Program
1866 Main Mall, Buchanan Room E462

Length of the manuscripts accompanying the application depends on choice of genres. Guidelines are available from the Creative Writing Program Office or **www.creativewriting.ubc.ca**.

Master of Fine Arts in Creative Writing

The program leading to the M.F.A. in creative writing is based on the premise that capable student authors can benefit from judicious criticism and the requirement to produce work regularly and to meet deadlines. Workshops, conferences, and tutorials are designed to focus attention on the student's poetry, fiction, drama, imaginative non-fiction, the writing of children's literature, and literary translation. Students are expected to read various books and journals for technical improvement in their own writing. For admission requirements, see above.

The Creative Writing Program publishes *PRISM international* and *FUGUE*; graduate students participate in the editing and production of the magazines.

During the two years of the program, a minimum of 36 credits of work must be completed, including a thesis. (A reduction of the second-year residency requirement will be considered in exceptional circumstances.) The Creative Writing Program consists of work in three genres, chosen in consultation with the program advisor, as described in the program brochure.

In the second year, students will complete a six-credit thesis consisting of a full-length work in the area(s) of their special interest. The thesis may be a substantial revision and extension of work done during the first year. A work of translation may be used to fulfil the thesis requirement by students with the required ability and linguistic knowledge. (M.A. candidates in the Comparative Literature Program who have their advisor's permission and are accepted by the instructor of the course in translation may include a translation in partial satisfaction of their thesis requirements.)

Students may be required to take advanced creative writing undergraduate courses as part of their programs.

Master of Fine Arts in Stage Playwriting

The Creative Writing and Theatre graduate

Vancouver, BC V6T 1Z1

Tel: 604-822-0699
Fax: 604-822-3616
Email: patrose@interchange.ubc.ca
Web: www.creativewriting.ubc.ca

Pat Rose, Creative Writing Program and Graduate Secretary

programs offer a joint program leading to the M.F.A. in Stage Playwriting. Applicants must be accepted by both Creative Writing and Theatre. For admission requirements, see above.

Students are required to take appropriate course work in the Programs of Creative Writing and Theatre, as described in their respective brochures. They must also be involved in the staging or production of some of their own work and, in fulfilment of the six-credit thesis requirement, write the equivalent of a full-length stageplay acceptable to both programs. The thesis requirement must be met in the second year and may be a substantial revision and extension of work done during the first year.

Contact Information

Creative Writing Program
1866 Main Mall, Buchanan Room E462
Vancouver, BC V6T 1Z1
(note: We are situated on the East Mall side of the building)
Tel: 604-822-0699
Fax: 604-822-3616
Email: **patrose@interchange.ubc.ca**
Website: **www.creativewriting.ubc.ca**

Ms. Pat Rose, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

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THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Creative Writing / Theatre** **Degrees Offered: M.F.A.** ***Members*** **Professors** - **Associate Professors** S. Heatley, S. Malloy, B. Wade. **Assistant Professors** - ***Program Overview*** The Creative Writing and Theatre Programs of the Department of Theatre, Film, and Creative Writing offer a two-year course of resident study leading to the Master of Fine Arts (M.F.A.) in Stage Playwriting. Applicants must be accepted by both the {I|11271|Creative Writing} and {I|11364|Theatre} Programs. See also Creative Writing and Theatre calendar entries. **Master of Fine Arts** **Admission Requirements**	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,223** **Present Calendar Entry:** **Degrees Offered** *M.F.A.* **Program Overview** The Creative Writing Program offers a two-year course of resident study leading to the Master of Fine Arts (M.F.A.). Candidates may choose to take the M.F.A. in Creative Writing, or concentrate in playwriting in conjunction with the Theatre Program (CRWR/Theatre). The joint Creative Writing and Film Program (CRWR/Film) requires that the candidate must be accepted by the Film Program first before applying to the CRWR/Film Program. Consult the **Film Program website**. The deadline for receiving (not postmarked) manuscripts is November 5, 2004 for September 2005 entrance date. Late manuscripts will not be considered. Candidates for the Creative Writing Program should submit work in two or more of the genres listed in the brochure, specifying which is their major area of interest. Short and long fiction are considered one genre. Candidates who intend to focus on translation should submit translated material in any of the above genres and a sample of their own original creative writing. Consult the **Department website** or **email** for more information. Admission to the M.F.A. in Playwriting is on the basis of a script submission, including some work in another genre, and also relevant course work in theatre at the undergraduate level or equivalent.

Applicants must satisfy the general requirements set by the Faculty of Graduate Studies. Admission to the M.F.A. in Stage Playwriting is on the basis of a script submission, including some work in another writing genre, and also relevant course work in theatre at the undergraduate level or equivalent. Inquiries should be directed to the Creative Writing Program. Please consult the Creative Writing Program {H|www.creativewriting.ubc.ca|website} for additional information regarding manuscript submission and deadlines.

Program Requirements

Students are required to 36 credits of coursework in creative writing and theatre, a six credit thesis and including five 6-credit CRWR workshops chosen in consultation with the graduate advisor. They must also be involved in the staging or production of some of their own work and, in fulfillment of the six-credit thesis requirement, write the equivalent of a full-length stageplay acceptable to both programs. The thesis requirement must be met in the second year and may be a substantial revision and extension of work done during the first year.

Contact Information:

Creative Writing Program
1866 Main Mall, Buchanan Room E462
Vancouver, BC V6T 1Z1

Tel: 604-822-0699
Fax: 604-822-3616
Email: patrose@interchange.ubc.ca
Web: www.creativewriting.ubc.ca

Pat Rose, Creative Writing Program and Graduate Secretary

Length of the manuscripts accompanying the application depends on choice of genres. Guidelines are available from the Creative Writing Program Office or **www.creativewriting.ubc.ca**.

Master of Fine Arts in Creative Writing

The program leading to the M.F.A. in creative writing is based on the premise that capable student authors can benefit from judicious criticism and the requirement to produce work regularly and to meet deadlines. Workshops, conferences, and tutorials are designed to focus attention on the student's poetry, fiction, drama, imaginative non-fiction, the writing of children's literature, and literary translation. Students are expected to read various books and journals for technical improvement in their own writing. For admission requirements, see above.

The Creative Writing Program publishes *PRISM international* and *FUGUE*; graduate students participate in the editing and production of the magazines.

During the two years of the program, a minimum of 36 credits of work must be completed, including a thesis. (A reduction of the second-year residency requirement will be considered in exceptional circumstances.) The Creative Writing Program consists of work in three genres, chosen in consultation with the program advisor, as described in the program brochure.

In the second year, students will complete a six-credit thesis consisting of a full-length work in the area(s) of their special interest. The thesis may be a substantial revision and extension of work done during the first year. A work of translation may be used to fulfil the thesis requirement by students with the required ability and linguistic knowledge. (M.A. candidates in the Comparative Literature Program who have their advisor's permission and are accepted by the instructor of the course in translation may include a translation in partial satisfaction of their thesis requirements.)

Students may be required to take advanced creative writing undergraduate courses as part of their programs.

Master of Fine Arts in Stage Playwriting

The Creative Writing and Theatre graduate

programs offer a joint program leading to the M.F.A. in Stage Playwriting. Applicants must be accepted by both Creative Writing and Theatre. For admission requirements, see above.

Students are required to take appropriate course work in the Programs of Creative Writing and Theatre, as described in their respective brochures. They must also be involved in the staging or production of some of their own work and, in fulfilment of the six-credit thesis requirement, write the equivalent of a full-length stageplay acceptable to both programs. The thesis requirement must be met in the second year and may be a substantial revision and extension of work done during the first year.

Contact Information

Creative Writing Program
1866 Main Mall, Buchanan Room E462
Vancouver, BC V6T 1Z1
(note: We are situated on the East Mall side of the building)
Tel: 604-822-0699
Fax: 604-822-3616
Email: **patrose@interchange.ubc.ca**
Website: **www.creativewriting.ubc.ca**

Ms. Pat Rose, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Economics** **Degrees Offered: Ph.D. M.A.** ***Members*** **Professors** P. Beaudry, B. Copeland, M. Deverux, W. E. Diewert, M. Eswaran, R. G. Evans, D. Green, A. Kotwal, T. Lemieux, H. Neary, D. Paterson, M. Peters, A. Redish, W. C. Riddell. **Associate Professors** N. Fortin, P. Francois, P. Norman. **Assistant Professors** K. S. Anderson, G. Celik, A. Chneerov, M. Drelichman, S. Firpo, P. Ghosh, Y. Halevy, K. Milligan, S. Sakata, H. Siu, U. Song, O. Yilankaya. ***Program Overview*** The Department of Economics ranks as one of the top economics departments in Canada and graduates of our Ph.D. and M.A. programs have been offered jobs at prestigious institutions around the globe. The Department has internationally recognized expertise in many fields including: macroeconomics, labour economics, international trade and finance, environmental economics, industrial organization, information and incentives, economic theory, health economics,	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,197,282,70 **Present Calendar Entry:** The Department of Economics offers programs of study that lead to the degrees of Doctor of Philosophy, Master of Arts and Bachelor of Arts. For information on graduate programs, see ***Economics*** in the Graduate Studies section. The Department also collaborates with Canadian Studies, International Relations, Mathematics, Modern European Studies, Philosophy, Political Science, Statistics, Urban Studies, Women's Studies and the Faculty of Commerce. For details about current offerings, consult the **departmental website**. **Admission to the Major or Honours Program** Admission to the Major or Honours program in Economics is not automatic. To be admitted students must submit a formal application. Because there are a limited number of places some students who satisfy the minimum prerequisites may not be admitted. Selection for admission is based on the average standing in all credits of post-secondary coursework attempted, with the exception of 12 credits that may be excluded from the calculation. The average is calculated on at least 54 credits, including six credits of first-year English, six credits of Principles of Economics, six credits of first-year Calculus and six credits of second- or third-year level courses in Economics. Students not admitted to the Major in Economics who are eligible to take ECON 490 may be admitted to the final 30 credits of the program, but only if places become available, which is unlikely. Students who are considering a Major, Combined Major, or Honours program in Economics are encouraged to seek advice on

development economics and economic history. Our programs are small enough to provide detailed supervision of dissertations, but large enough to offer expertise in a wide range of theoretical, applied and policy areas.

Doctor of Philosophy

The Ph.D. program is designed to equip students to design and implement an economic research program, with a view toward a career as an academic, or in the private or public sectors.

Recent graduates have been offered tenure track positions at leading departments in Canada, the US, the UK, and Australia, as well as non-academic positions at consulting companies in Canada and the US, and in a variety of government departments.

Admission Requirements

Applicants for admission to the Ph.D. program are normally expected to hold a Master's degree in economics and to have demonstrated ability to undertake advanced studies and independent research. However, students who have *outstanding records* in undergraduate honours programs in Economics and show substantial ability to do independent work at an advanced level may be admitted directly to the Ph.D. program. Such students should have a full year of post-introductory microeconomics and a half year of post-introductory macroeconomics, the equivalent of Math 200 at UBC (Calculus III: Analytic geometry in 2 and 3 dimensions, partial and directional derivatives, chain rule, maxima and minima, second derivative test, Lagrange Multipliers, multiple integrals with applications), and a year of statistics and econometrics.

Program Requirements

The Program consists of a thesis (Econ 599) plus 51 credits of coursework that include ECON 600, 602, 603, 627, 628, 640 and 690. Students take 2 years of coursework in the core areas of microeconomics, macroeconomics and econometrics in the first year and, in the second year, in fields of their choice. Students then write a dissertation meeting the Faculty of Graduate Studies requirements (typically this takes 2 to 3 years) in their chosen field.

Master of Arts

The M.A. program is a 12-month program designed

their program from department advisors upon completion of their first 54 credits (or if possible, on completion of their first 30 credits).

Application

A written application for admission to the Major or Honours program should be received by June 15, prior to registering for the final 60 credits, to ensure that the student will be considered for admission. Application forms are available on the **Economics website** or from the Undergraduate Admissions Secretary, Department of Economics, The University of British Columbia, 997-1873 East Mall, Vancouver, BC, V6T 1Z1.

The application form must be accompanied by a copy of the student's permanent record from UBC (unless application is post-marked May 20 or earlier) and official transcripts of the student's record from all other post-secondary educational institutions attended.

Major in Economics

To be admitted to the Major program a student must have obtained 54 credits applicable to the Bachelor of Arts, including six credits of first-year English, six credits of Principles of Economics, six credits of first-year Calculus, and six credits of second- or third-year level courses in Economics.

In addition to the above prerequisites and Faculty requirements the program must include:

- ECON 301 (or 201 or 206 or 304) and 302 (or 202 or 207 or 305)
- ECON 325 and 326
- ECON 490
- six additional credits of economics at the 400 level; at least nine additional credits in ECON at the 300- or 400-level so that the total number of credits taken in Economics are 42.

Students should note the prerequisites for senior courses and plan their programs accordingly. Particular attention should be paid to the prerequisites for ECON 490; ECON 325 and 326 (or their equivalent) must be successfully completed before the student may enrol in ECON 490.

For guidance on the course selection that enable students to emphasize different interests within

to prepare students for employment in the private or public sectors, or to enter a Ph.D. program.

Admission Requirements

Applicants for admission to the M.A. program are normally expected to have a strong undergraduate academic record especially in economic theory, statistics, and econometrics, with at least one year of calculus. Additional study of calculus and linear algebra is strongly advised. For detail requirements, please see our {H|www.econ.ubc.ca|website}.

Program Requirements

The program includes 18 credits taken as Econ 500, 502, 526, 527, 594 plus 12 additional credits of electives. The electives are typically 500-level Econo courses.

The thesis option takes two-to three years. It requires prior arerangement but substitutes the 12 credits of Econ elective in the standard program with the 12 Con 599 thesis.{H|www.econ.ubc.ca|website}.

Contact Information:

Department of Economics
997-1873 East Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-4616
Fax: 604-822-5915
Email: econgrad@econ.ubc.ca
Web: www.econ.ubc.ca

Maureen Chin, Graduate Secretary

Economics (e.g., international, development and history, environment, public policy etc), see the **departmental website**. Students with over 80% average in their first-year economics and mathematics courses are strongly advised to apply for the Honours Program.

Graduate School Track

Graduate studies in Economics require a strong background in economic theory, econometrics and mathematics. Therefore, students who intend to pursue graduate studies in Economics are strongly advised to take ECON 303 or ECON 306, ECON 307, ECON 421, ECON 425, MATH 200 and MATH 221.

Combined Major in Economics and Political Science

Admission to the program is subject to the admission restrictions and application process that pertain currently to the Majors in Economics and Political Science. In addition to Faculty requirements the program has Economics and Political Science requirements. Students completing the Foundations Program will be exempted from the requirement of POLI 100.

Economics Requirements

Students take an 18-credit core, plus ECON 490 and nine credits of electives in Economics of which at least three credits must be at the 300/400-level. The 18-credit core consists of ECON 101, 102, 301 (or 201 or 206 or 304), 302 (or 202 or 207 or 305), 325 and 326.

Political Science Requirements

Students take a 15-credit core plus 15 credits of electives at the 300/400 level chosen in consultation with an advisor from the Political Science Department. The 15-credit core consists of POLI 100, 101, 240 and 350 plus three credits chosen from POLI 220 or 260.

Combined Major in Economics and Philosophy

Admission to the program is subject to the admission restrictions and application process that pertain currently to the Major in Economics. In addition to Faculty requirements, the program has Economics and Philosophy requirements.

Economics Requirements

Students take an 18-credit core, plus ECON 490 and nine credits of electives in Economics of which at least three credits must be at the 300/400-level. The 18-credit core consists of ECON 101, 102, 301(or 304 or 201 or 206), 302 (or 305 or 202 or 207), 325 and 326. Students are strongly advised to take ECON 318 and ECON 319.

Philosophy Requirements

Students take an 18-credit core plus 12 credits of electives at the 300/400 level. The 18-credit core consists of PHIL 220, 230, 240, 330 and 340 plus three credits of history of philosophy from PHIL 310, 311, 314 or 315.

B.A. Combined Major in Economics and Mathematics

Admission to the program is subject to the admission restrictions and application process that pertain currently to the Major in Economics. For the B.Sc. Combined Major in Mathematics and Economics, see the listing under the Faculty of Science.

First and Second Years

In addition to Faculty requirements, students take the following courses:

- ECON 101 and 102[1]
- ECON 304 (or 206), and ECON 305 (or 207)
- MATH 104 (or 100 or 102 or 180 or 184 or 120)
- MATH 105 (or 101 or 103 or 121)
- MATH 200 (or 226), 215, 220, 221

[1]Students can take ECON 307 and three additional credits of Economics numbered 300 or higher instead of ECON 101 and 102.

Third and Fourth Years

In addition to Faculty requirements, students take the following courses:

- ECON 306, 325[2], 326, 490

- MATH 320
- Six additional credits of Economics numbered 300 or higher, of which at least three credits must be at the 400 or 500 level.
- Nine additional credits of Mathematics numbered 300 or higher. Suitable electives include MATH 302, 303, 321, 402, 403, 418, 419 and 443.

[2]STAT 200 can substitute for ECON 325.

B.A. Combined Major in Economics and Statistics

Admission to the program is subject to the admission restrictions and application process that pertain currently to the Major in Economics. For the B.Sc. Combined Major in Statistics and Economics, see the listing under the Faculty of Science.

(list of courses that students may take in addition to the Faculty requirements was taken out due to formatting, it is available on the website)

Honours in Economics

To be admitted to the Honours program a student must have obtained 60 credits applicable to the Bachelor of Arts, with an overall average of 68% or better on all credits attempted and have completed successfully: six credits of first-year English, six credits of first-year Calculus, six credits of Principles of Economics, and six credits of Economics courses at the 200 (or 300) level (with at least a 68% average in the best 12 credits of Economics courses).

Students considering an Honours program in Economics should consult the Department's Honours advisor on completion of their first 60 credits (if possible, on completion of their first 30 credits).

In addition to the prerequisites the program must include:

- ECON 325 and 326
- ECON 304 (or 206) and 305(or 207)
- ECON 306 and 307 with at least a 68% average

- another twelve credits in Economics courses at the 400 level
- another nine credits in Economics courses at the 300 or 400 level
- ECON 495 and 499.

Graduate studies in Economics require a strong background in economic theory, econometrics and mathematics. Therefore, students who intend to pursue graduate studies in Economics are strongly advised to take ECON 421, ECON 425, MATH 200 and MATH 221.

To proceed to the final 30 credits of the Honours program a student must have attained at least a 68% average in all courses taken in Economics.

Minor in Economics

Students who are enrolled in a Major program other than Economics, and who obtain at least 30 credits and no more than 42 credits in Economics, with at least 18 of these credits in courses numbered 300 or above, qualify to graduate with a Minor in Economics.

None of ECON 308, 309, 310 or 311 can be included in the requirement of 18 credits in courses numbered 300 or above. Economics courses which do not have six credits of Principles of Economics as a prerequisite, for which unassigned transfer credit may have been granted, may not be included in the 30 credits required for a Minor in Economics.

Courses for Students not Specializing in Economics

ECON 310 and ECON 311 are designed for upper-year students who want a survey course in Economics but who do not want to specialize in the field.

Non-specialists should also note that most 300-level courses have as prerequisites no more than six credits of Principles of Economics.

Students are referred to the **Department of Economics** undergraduate timetable for updated information on courses to be offered each session.

Type of Action:
Edit Calendar entry.

	Rationale: The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Film Studies** **Degrees Offered: M.A** ***Members*** **Professors** B. McIlroy. **Associate Professors** C. Gallagher, S. McGowan. **Assistant Professors** L. Coulthard. ***Program Overview*** The Film Program offers the Master of Arts (M.A.) in Film Studies. The UBC Library has an extensive holding of film studies literature, and the program provides film production and post-production equipment. Further information may be obtained from the program's {H|www.film.ubc.ca|website}. The Film Studies Program is part of the Department of Theatre, Film and Creative Writing. **Master of Arts** **Admission Requirements**	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,239** **Present Calendar Entry:** **Degrees Offered** *M.A., M.F.A.* **Master of Arts and Master of Fine Arts** The Film Program offers the Master of Arts (M.A.) in history/theory/criticism and the Master of Fine Arts (M.F.A.) in film production. Each is a two-year course of study and requires, as a prerequisite, an undergraduate degree in film or the equivalent. The Film Program and Creative Writing Program offer a Joint M.F.A. in Film and Creative Writing. The successful applicant must be first accepted into the Film M.F.A. For details of this Joint Program, please see the **Film Program Website** or the **Creative Writing Website**. The UBC Library has an extensive holding of film studies literature, and the program provides film production and post-production equipment. Further information may be obtained from the program's **website**. The Film Program is part of the Department of Theatre, Film and Creative Writing. **Contact Information** Film Program Department of Theatre, Film and Creative Writing Room 2354A, 1874 East Mall Vancouver, BC V6T 1Z1 Tel: 604-822-6037 Fax: 604-822-0508

Students will be considered for acceptance into the Graduate Program from any recognized degree in Film Studies or who have at least 18 credits in Film Studies courses at the third or fourth year level with A standing in a Degree with a Major or Honours in another subject.
For specific application requirements, please visit {H|www.film.ubc.ca/programs/studies/film_studies_ma.htm}.

Program Requirements

The program consists of 30 credits, including 18 credits of graduate film courses selected from FIST- 500, 531, 532, 534, 547 and a 12 credit thesis (549B). For detailed information about specific program requirements, please visit {H|www.film.ubc.ca/programs/studies/film_studies_ma.htm}.

Contact Information:

Film Program
Room 2354A, 1874 East Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-6037
Fax: 604-822-0508
Email: film@interchange.ubc.ca
Web: www.film.ubc.ca

Zanna Downes, Film Program Secretary

Email: **film@interchange.ubc.ca**
Website: **www.film.ubc.ca**

Ms. Gail Oelkers, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

Approved by Curriculum Committee, June 30, 2006

UBC

Curriculum Proposal Form
Change to Programs

Category: (2)

Faculty: Law **Department: Law** **Faculty Approval Date: 6/30/06** **Effective Session: Winter 2006** **Term: Fall** **Year: 2006 for Change**	**Date: 30st June 2006** **Contact Person: Catherine Dauvergne, Chair, Faculty Curriculum Committee / Dr. W. Wesley Pue, Associate Dean, Graduate Studies & Research, Law** **Phone: 604-822-6506 or 604-822-6525** **Email:** dauvergne@law.ubc.ca pue@law.ubc.ca
Proposed Calendar Entry: **Law** **Degrees Offered: Ph.D., LL.M., M.Jur.** ***Members*** **Professors** J. Bakan, J. Blom, M. A. Bobinski, S. Boyd, C. L. M. Boyle, R. M. Elliot, **I Grant**, M. Jackson, M. Le Baron, B. W. MacDougall, R.K. Paterson, P. B. Potter, W. W. Pue, A. F. Sheppard, J. Weiler, C. Young. **Associate Professors** R. Buchanan, **G. Christie**, C. Dauvergne, R. Davis, Shi-Ling Hsu, K. T. Mickelson, J. Mosoff, **J. Sarra,** I. Townsend-Gault, S. Wexler, M. Young. **Assistant Professors** N. Affolder, J. Benedet, L. Biukovic, K. Brooks, C. Ford, D. Harris, J. McCue, M. Sundara-Rajan ***Program Overview*** Please be advised that this is a general overview of the Graduate Programs offered at the Faculty of Law. For more comprehensive information please refer to the program's **website**.	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,828,1186** **Present Calendar Entry:** **Law** **Degrees Offered:** **Ph.D., LL.M., M.Jur.** ***Members*** **Professors** J. Bakan, B. Black, J. Blom, M. A. Bobinski, S. Boyd, C. L. M. Boyle, R. M. Elliot, M. Jackson, M. Le Baron, B. W. MacDougall, R.K. Paterson, P. B. Potter, W. W. Pue, A. F. Sheppard, J. Weiler, C. Young. **Associate Professors** ~~P. L. Bryden,~~ R. Buchanan, C. Dauvergne, R. Davis, Shi-Ling Hsu, K. T. Mickelson, J. Mosoff, I. Townsend-Gault, S. Wexler, M. Young. **Assistant Professors** L. Biukovic, D. Harris, ~~A. Rochette, J. Sarra.~~ **Program Overview** Please be advised that this is a general overview of the Graduate Programs offered at the Faculty of Law. For more comprehensive information please refer to the program's **website**.

The UBC Faculty of Law is one of the world's leading law schools and one of Canada's oldest university faculties of law. Graduates have assumed leadership positions in a broad range of spheres, both nationally and internationally, in the legal profession, the judiciary, government, public interest organizations, business and academia.	The UBC Faculty of Law is one of the world's leading law schools and one of Canada's oldest university faculties of law. Graduates have assumed leadership positions in a broad range of spheres, both nationally and internationally, in the legal profession, the judiciary, government, public interest organizations, business and academia.
There are many reasons for choosing graduate studies in law at UBC. The outstanding faculty are respected worldwide for their innovative and interdisciplinary research. Students are offered one of the largest and most diverse course lists in Canada - so students can pursue their academic interests, whatever their focus.	There are many reasons for choosing graduate studies in law at UBC. The outstanding faculty are respected worldwide for their innovative and interdisciplinary research. Students are offered one of the largest and most diverse course lists in Canada - so students can pursue their academic interests, whatever their focus.
The deadline for application to **all** Graduate Programs in the Faculty of Law is February **1st.** Early application is strongly encouraged.	The deadline for application to **all** Graduate Programs in the Faculty of Law is February ~~15th~~. Early application is strongly encouraged.
Degree Requirements	**Degree Requirements**
Doctor of Philosophy	**Doctor of Philosophy**
Admission Requirements	~~The Ph.D. program is designed to provide advanced training for outstanding graduate students who have already obtained a Master of Laws (LL.M.) or equivalent. Through the program, highly accomplished graduate students will be trained to carry out advanced research under supervision by members of the Faculty of Law.~~
Admission to the Ph.D, program requires a Bachelor of Laws as well as an LL.M. or equivalent from a recognized institution indicating a superior level of academic performance in a field of specialization that will support the applicant's Ph.D. research. In exceptional circumstances applicants who do not meet these requirements but who, in the opinion of the Faculty of Law Graduate Committee, possess qualifications appropriate for admission to the doctoral program may be considered for provisional acceptance dependent upon successful completion of one or more law courses prior to formal acceptance. In addition, all applicants must meet the Faculty of Graduate Studies' minimum academic standards for admission.	

Program Requirements The Ph.D. curriculum consists of a **required** one- year, two-part seminar and other coursework as required by a student's supervisory committee. **All doctoral students are required to successfully complete a comprehensive examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.**	The Ph.D. curriculum consists of a one-year, two-part seminar and other coursework as required by a student's supervisory committee. ~~Students must complete all requirements for the Ph.D. within six years of the date of first registration in the program. Each student will have a faculty supervisor drawn from the UBC Faculty of Law. The selection of faculty supervisors will be administered by the Graduate Committee of the Faculty of Law, subject to approval by the Dean of the Faculty of Law and the Dean of the Faculty of Graduate Studies.~~ ~~For more information please refer to the Faculty of Law **website**.~~
Master of Laws (LL.M.) **Admission Requirements** **To be eligible for admission into the LL.M. program, a candidate must have a Bachelor of Laws degree or its equivalent from an approved law faculty. In addition, all applicants must meet the Faculty of Graduate Studies' minimum academic standards for admission.** **Program Requirements** **The LL.M.** program combines **coursework** with the preparation of a thesis of acceptable quality. Students are required to complete successfully 36 credits of work, of which 20 credits are allocated to the thesis, 12 credits to **coursework** (usually comprising four one-term courses or seminars), and 4 credits to the required **Master of Laws** seminar.	**Master of Laws** ~~The Master of Laws (LL.M.) is a rigorous thesis-based degree program. It provides excellent preparation for academic research and policy work and enables graduates to pursue careers in law teaching, legal research, policy development, public and governmental service and the practice of law. This is an intense research-based degree which has both coursework and thesis requirements. The research produced for the thesis is expected to be of publishable quality.~~ ~~**Curriculum:** The~~ program ~~is of one year's duration, and~~ combines ~~coursework~~ with the preparation of a thesis of acceptable quality. Students are required to complete successfully 36 credits of work, of which 20 credits are allocated to the thesis, 12 credits to ~~coursework~~ (usually comprising four one-term courses or seminars), and 4 credits to the required ~~master's~~ seminar. ~~**Admission Information:** For more comprehensive information please refer to the program's **website**.~~

Master of Jurisprudence in Common Law

The Master of Jurisprudence in Common Law **degree** is a one-year professional program designed to **provide academic study introducin**g accomplished lawyers from other legal systems to common law concepts and methods.

Admission Requirements

To enter the M.Jur. (Common Law), students must possess a non-common law professional law degree. In addition, all applicants must meet the Faculty of Graduate Studies' minimum academic standards for admission.

Program Requirements

Students are required to successfully complete 30 credits of work, **consisting of the six credit Law 550: Seminar in Common Law Theory and Practice, at least 18** credits of graduate-level courses **or seminars and up to six credits from designated** 300- or 400-level LL.B. courses or seminars.
It is normally expected that students will complete their program of study in one academic year (September – April).

Contact Information

Graduate Program, UBC Faculty of Law
1822 East Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-6449
Fax: 604-822-4781
Email: graduates@law.ubc.ca
Web: www.law.ubc.ca

Joanne Chung, Graduate Program Administrator

Master of Jurisprudence in Common Law

The ~~new~~ Master of Jurisprudence in Common Law is a one-year professional program ~~that provides international law graduate form non-common law countries with an in-depth understanding of the theory and practice of common law. The M.Jur. (Common Law) degree is~~ designed to ~~introduce~~ accomplished lawyers from other legal systems to common law concepts and methods. ~~It is not intended to serve as a professional qualification for the practice of law in British Columbia of elsewhere.~~

~~**Curriculum:** This program is of one year's duration and combines course and seminar work with a year-long Seminar in Common Law Theory and Practice.~~ Students are required to successfully complete 30 credits of work, ~~of which six credits comprise the above seminar, 18 comprise~~ graduate-level courses ~~and seminars and the remaining six comprise~~ 300- or 400-level LL.B. courses or seminars.

~~**Admission Information:** For more comprehensive information please refer to the program's **website**.~~

Contact Information

Graduate Program, UBC Faculty of Law
1822 East Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-6449
Fax: 604-822-4781
Email: graduates@law.ubc.ca
Web: www.law.ubc.ca

Joanne Chung, Graduate Program Administrator

UBC Curriculum Proposal Form
Change to Program

Category: (2)

Faculty: Law **Department: Law** **Faculty Approval Date: 6/30/06** **Effective Session: Winter 2006** **Term: Fall** **Year: 2006 for Change**	**Date: 30 June 2006** **Contact Person: Catherine Dauvergne, Chair, Faculty Curriculum Committee / Dr. W. Wesley Pue, Associate Dean, Graduate Studies & Research, Law** **Phone: 604-822-6506 or 604-822-6525** **Email:** dauvergne@law.ubc.ca pue@law.ubc.ca
	Type of Action: Edit calendar entry The proposed changes: 1) involve editorial changes to correct typographical or editing errors, and to bring them into conformity with the style and presentation format now preferred by the University of British Columbia; **Rationale:** The Faculty of Law and Faculty of Graduate Studies is making a combined effort to ensure that calendar entries for graduate programs are consistent, effective, efficient and equitable.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Library and Information Studies** **Degrees Offered: M.L.I.S.** ***Members*** **Professors** E. Rasmussen **Associate Professors** A. Curry. **Assistant Professors** R. Kopak, J. Tennis. ***Program Overview*** **Program Chair: Dr. M. S. Stephenson** The Master of Library and Information Studies (M.L.I.S.) is accredited by the American Library Association and is one of some fifty in North America, including seven in Canada, which gives its graduates professional stature. Graduates employed in academic, public, school, special libraries, or other information agencies combine work with information and its users with some aspects of supervision knowledge management services. Graduates not working in libraries as such are to be found in a wide variety of positions involving the uses of information in their broadest context; many are self-employed.	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,267 **Present Calendar Entry:** **Degrees Offered** *M.A.S./M.L.I.S., M.L.I.S.* *Ph.D.* **Master of Library and Information Studies** The Master of Library and Information Studies (M.L.I.S.) is a professional degree program open to those holding a bachelor's degree considered suitable by the admissions committee, and which meets the minimum admission requirements of the Faculty of Graduate Studies. Those applying to enter the program are expected to have a strong foundation in some specialist studies but also an enthusiasm for information and its uses in the wider sense. The program, accredited by the American Library Association, is one of some fifty in North America, including seven in Canada, which gives its graduates professional stature. Graduates employed in academic, public, school, special libraries, or other information agencies combine work with information and its users with some aspects of supervision knowledge management services. Graduates not working in libraries as such are to be found in a wide variety of positions involving the uses of information in their broadest context; many are self-employed. The degree is awarded on successful completion of 48 credits including an optional thesis, plus a non-credit practicum. Much of the program, which can include Summer Session courses, may be taken on a part-time basis (i.e., taking less than a full load of courses). Students may begin the program in either September or January, but part-time studies are best begun in September. The required practicum and field trips in

Master of Library and Information Studies

Admission Requirements

The M.L.I.S. program is a professional program open to those holding a bachelor's degree considered suitable by the admissions committee, and which meets the minimum admission requirements of the Faculty of Graduate Studies. Those applying to enter the program are expected to have a strong foundation in some specialist studies but also an enthusiasm for information and its uses in the wider sense.

Program Requirements

The Master of Library and Information Studies is awarded on completion of 48 credits of work approved by the School and the non-credit practicum (LIBR 595).

The required courses are LIBR 500, **501, 502, 503** (known collectively as the Core), **504 and 505**. Students taking the program on a part-time basis are required to take LIBR 500 and/or **501** in their first term. All other LIBR courses require LIBR 500 and **501** as pre- or corequisites. Three or more of the Core courses are prerequisites to most advanced courses, because the Core introduces the knowledge that should be common to all librarians **and information professionals in related fields**.

~~The degree is awarded on successful completion of 48 credits including an optional thesis, plus a non-credit practicum. Much of the program, which can include Summer Session courses, may be taken on a part-time basis (i.e., taking less than a full load of courses). Students may begin the program in either September or January, but part-time studies are best begun in September. The required practicum and field trips in courses, the option of formal professional experience, and the use of some practitioners as adjunct professors assure a practical orientation to the theory of information management.~~

Contact Information:

School of Library, Archival and Information Studies
TEF III, Suite 301, 6190 Agronomy Road
Vancouver, BC V6T 1Z3

courses, the option of formal professional experience, and the use of some practitioners as adjunct professors assure a practical orientation to the theory of information management.

Joint Master of Archival Studies/Master of Library and Information Studies Degree Program

The Joint Degree Program is designed to allow students to earn both an M.A.S. and an M.L.I.S. For further information, see ***Joint M.A.S./M.L.I.S.*** under the School of Library, Archival and Information Studies, or contact the School of Library, Archival and Information Studies.

Doctor of Philosophy in Library, Archival and Information Studies

The School of Library, Archival and Information Studies offers a Ph.D. program. Students may orient their coursework and dissertation to specialize in library and information studies. For details on admission and program requirements, see the section on the doctoral program under the ***School of Library, Archival and Information Studies***, or contact the School.

Contact Information

School of Library, Archival and Information Studies
301-6190 Agronomy Road
Vancouver, BC V6T 1Z3
Tel: 604-822-2404
Fax: 604-822-6006
Email: **slais.admission@ubc.ca**
Website: **www.slais.ubc.ca**

Type of Action:
Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar

Tel: 604-822-2404 **Fax:** 604-822-6006 **Email:** slaisad@interchange.ubc.ca **Web:** www.slais.ubc.ca **Joe Kwan**, Grad Admissions Secretary	entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Linguistics** **Degrees Offered: Ph.D. M.A.** ***Members*** **Professors** D. Pulleyblank, M. S. Rochemont, J. P. Stemberger, E. Vatikiotis-Bateson. **Associate Professors** G. Carden, B. Gick, P. A. Shaw, H. Davis, R.-M. Déchaine. **Assistant Professors** G. Hansson, L. Matthewson, M. Wiltschko. H. Rullmann. ***Program Overview*** The Department of Linguistics offers degree programs leading to both the Master of Arts (M.A.) and to the Doctor of Philosophy (Ph.D). Education is offered in the core areas of theoretical linguistics (phonetics, phonology, semantics, syntax), with the possibility of specializing in the following areas: First Nations languages, African languages, first language acquisition. Detailed information about both degree programs may be obtained in the Graduate Handbook at the Department's {H|www.linguistics.ubc.ca/grad.htm|website	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,268** **Present Calendar Entry:** **Degrees Offered** *M.A.* *Ph.D.* **Program Overview** The Department of Linguistics offers advanced study in Linguistics leading to the degrees of Doctor of Philosophy and Master of Arts. The M.A. in Linguistics may be taken with or without a thesis in accordance with general regulations. Research areas in which students may be accepted for the Ph.D. include phonetics, phonology, syntax, semantics, historical and comparative linguistics, First Nations languages, African languages, psycholinguistics, and first language acquisition. Course work for all graduate students is planned on the basis of individual requirements and research projects. Appropriate interdisciplinary programs may be arranged. More detailed information may be obtained from the Department or from the **Department of Linguistics website**. **Contact Information** Department of Linguistics E270, 1866 Main Mall Vancouver, BC V6T 1Z1 Tel: 604-822-4256 Fax: 604-822-9687 Email: **dcarmen@interchange.ubc.ca** Website: **www.arts.ubc.ca/ling** **Ms. Edna Dharmaratne**, Graduate Secretary

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Doctor of Philosophy

Admission Requirements

Students admitted to the Ph.D. program normally possess a master's degree in Linguistics or a related area, with clear evidence of research ability or potential. Transfer from the Master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies. Exceptional students may be admitted directly to the Ph.D. program from the bachelor's level.

Program Requirements

Coursework is selected in consultation with the student's supervisory committee. All doctoral students are required to successfully complete two qualifying papers. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Arts

Admission Requirements

Students admitted to the M.A. degree program normally possess a Bachelor's degree and have substantial preparation in linguistics and linguistic theory, although it is possible to apply for the graduate program with an undergraduate degree in another subject area. Applicants must meet the general admission requirements for Master's degree programs set by the Faculty of Graduate Studies.

Program Requirements

A Master of Arts in Linguistics is a 30 credit degree program and may be obtained on a full-time or part-time basis; both thesis and course-based options are possible.

The required courses both thesis and course-based options are LING 508, 510, 520, 525 and 531. For detailed information, please visit www.linguistics.ubc.ca

Type of Action:
Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

Contact Information:

Department of Linguistics
E270, 1866 Main Mall
Vancouver, BC V6T 1Z1

Tel: 604-822-0415
Fax: 604-822-9687
Email: csarahc@interchange.ubc.ca

Web: www.linguistics.ubc.ca

Sarah Chen, Graduate Secretary

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Medical Genetics** **Degrees Offered: Ph.D.** **M.Sc.** ***Members*** **Professors** C.J. Brown, M. Burgess, C. J. Eaves, L. Field, J. M. Friedman, M. R. Hayden, P. A. Hieter, W. Jefferies, D. M. Juriloff, R. J. Kay, D. L. Mager, B. C. McGillivray, W. R. McMaster, W.P. Robinson, A. M. Rose, A. D. Sadovnick, M. I. Van Allen. **Associate Professors** L. A. Clarke, M. J. Harris, S. F. Langlois, M. Marra, K. M. McNagny, F. Ouellette, E. M. Simpson, W. Wasserman. **Assistant Professors** L. Arbour, A. Brooks-Wilson, E. Conibear, P. Hoodless, X. Jiang, S. Jones, B. Leavitt, L. Lefebvre, F. Rossi, S. Townsend, M. Wilkinson. ***Program Overview*** The Medical Genetics Graduate Program offers advanced study and research in a variety of areas of human and medical genetics. The Department has particular strength in human molecular genetics, genome analysis, developmental genetics, gene therapy, cytogenetics, oncogenetics, immunogenetics, genetic epidemiology,	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,272 **Present Calendar Entry:** **Degrees Offered** *M.Sc.* *Ph.D.* **Program Overview** The Department of Medical Genetics offers advanced study and research leading to the Doctor of Philosophy and Master of Science degrees in a variety of areas of human and medical genetics. The Department has particular strength in human molecular genetics, genome analysis, developmental genetics, gene therapy, cytogenetics, oncogenetics, immunogenetics, genetic epidemiology, genetics of common disorders, and clinical genetics. The core course requirements in both the M.Sc. and Ph.D. programs are: MEDG 520 (Advanced Human Molecular Genetics), MEDG 530 (Human Genetics), and normally MEDG 545 (Journal Club) and MEDG 548 (Directed Studies) for a total of 12 credits, plus six credits of electives. In addition, Ph.D. students must successfully complete a comprehensive examination and MEDG 649 (thesis). M.Sc. students must successfully complete MEDG 549 (thesis). Students entering the Medical Genetics Graduate Program will normally have a background in upper level genetics, biochemistry, and statistics (biometrics). **Contact Information** Room 300H-6174 University Boulevard Vancouver, BC V6T 1Z3 Tel: 604-822-5312 Fax: 604-822-5348

genetics of common disorders, and clinical genetics.

Research facilities are located on and off the UBC campus at various locations in Vancouver.

Doctor of Philosophy

Admission Requirements

Students entering the Ph.D. program in Medical Genetics will normally have a background in upper level genetics, biochemistry and statistics (biometrics) with a First class standing in their previous degree. Eligibility is determined on the basis of academic standing, research experience and letters of recommendation. Academically acceptable applicants must also obtain the commitment of a research supervisor from the Department of Medical Genetics before receiving final acceptance from the Program and the Faculty of Graduate Studies. Transfer from the M.Sc. to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies. Exceptional students may be admitted directly to the Ph.D. program from the bachelor's level.

Program Requirements

Ph.D. students are required to take 12 credits of core courses and six credits of electives in their first year. For course details see: {H|www.medgen.ubc.ca/courses/mggp/course-req.htm} and {H|www.medgen.ubc.ca/courses/courses.htm}.

All doctoral students are required to complete a comprehensive examination successfully. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science

Admission Requirements

Students entering the M.Sc. program in Medical Genetics will normally have a background in upper level genetics,

Email: **medgen@interchange.ubc.ca**
Website: **www.medgen.ubc.ca**

Ms. Cheryl Bishop, Graduate Secretary

Type of Action:
Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

biochemistry and statistics (biometrics) with a First class standing in their previous degree. Eligibility is determined on the basis of academic standing, research experience and letters of recommendation. Academically acceptable applicants must also obtain the commitment of a research supervisor from the Department of Medical Genetics before receiving final acceptance from the Program and the Faculty of Graduate Studies.

Program Requirements

M.Sc. students are required to take 12 credits of core courses and six credits of electives in their first year and complete MEDG 549. For course details see: {H|www.medgen.ubc.ca/courses/mggp/course-req.htm} and {H|www.medgen.ubc.ca/courses/courses.htm}.

Contact Information:

Department of Medical Genetics
Life Sciences Centre
Room 1.364 – 2350 Health Sciences Mall
Vancouver, BC V6T 1Z3

Tel: 604-822-5312
Fax: 604-822-5348
Email: medgen@interchange.ubc.ca
Web: www.medgen.ubc.ca/academic.htm

Cheryl Bishop, Graduate Secretary

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Microbiology and Immunology** **Degrees Offered: Ph.D.** **M.Sc.** ***Members*** **Professors** J. T. Beatty, B. Finlay, R. E. W. Hancock, P. Johnson, J. K. Smit, G. B. Spiegelman, H. S. Teh, C. Thompson, G. Weeks. **Associate Professors** R. Fernandez, M. Gold, W. W. Mohn. **Assistant Professors** N. Abraham, E. Gaynor, **K. Harder,** M. Horwitz. ***Program Overview*** The Department of Microbiology and Immunology offers opportunities for original research in the areas of molecular and applied microbiology, biotechnology, cell and developmental biology, molecular biology, molecular genetics, molecular immunology, microbial pathogenesis and virology. The Department has excellent research funding and a commitment to high quality. A list of faculty and associate members and their research interests is available from the Department. Students must satisfy the admission requirements of the Faculty of Graduate	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,275** **Present Calendar Entry:** **Degrees Offered** *M.Sc.* *Ph.D.* **Program Overview** The Department of Microbiology and Immunology offers opportunities for original research in the areas of molecular and applied microbiology, biotechnology, cell and developmental biology, molecular biology, molecular genetics, molecular immunology, microbial pathogenicity and virology. The Department has excellent research funding and a commitment to high quality, modern research. A list of faculty and associate members and their research interests is available from the Department. Students must satisfy the admission requirements of the Faculty of Graduate Studies including, for international students whose first language is not English, a minimum TOEFL score of 590. International students are required to take the Graduate Record Examination (GRE). For an application to be competitive, a score in the 600 range in both the quantitative and analytical sections is recommended. The GRE is optional for North American students. **Doctor of Philosophy** Students may be accepted into the Doctor of Philosophy program based on a First-Class standing in their undergraduate degree. During their first year, they will be required to complete 18 credits of course work with a First-Class standing, including Molecular Microbiology

Studies including, for international students whose first language is not English, a minimum TOEFL score of 590. International students are required to take the Graduate Record Examination (GRE). For an application to be competitive, a score in the 600 range in both the quantitative and analytical sections is recommended. The GRE is optional for North American students.

Doctor of Philosophy

Admission Requirements

Students admitted to the Ph.D. degree program normally possess a master's degree in Microbiology or a related area, with clear evidence of research ability or potential. Transfer from the master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies. Exceptional students may be admitted directly to the Ph.D. program from the bachelor's level.

Program Requirements

During their first year, they will be required to complete 12 credits of coursework with a First class standing, including Molecular Microbiology Techniques (MICB 506) and a seminar (MICB 530). Students entering the Ph.D. program with an advanced degree (such as a Master of Science) will be required to take the seminar (MICB 530) rather than MICB 506 during their first term in the program. Course requirements other than MICB 530 will be at the discretion of the thesis supervisory committee. All doctoral students are required to successfully complete a comprehensive examination within 18 months of starting their program. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science

Admission Requirements

Students admitted to the M.Sc. degree program normally possess a bachelor's degree in Microbiology or related area, and must meet the general admission requirements for Master's degree programs set by the Faculty of Graduate Studies.

Techniques (MICB 506) and a seminar (MICB 530). Students entering the Ph.D. program with an advanced degree (such as a Master of Science) will be required to take the seminar (MICB 530) during their first term in the program. Course requirements in addition to MICB 530 will be at the discretion of the thesis supervisory committee. All Ph.D. students will be required to pass a comprehensive examination on topics related to their research area of interest within 18 months of starting their program.

Master of Science

Students will enrol in Molecular Microbiology Techniques (MICB 506) and a seminar (MICB 530) in addition to at least nine credits in other courses in their first year. In addition, the student must perform research work under a research supervisor and write and defend a thesis based on this research. Master's students who have completed one year of study in the program may be eligible to transfer to a doctoral program without completing the master's degree.

Contact Information

Department of Microbiology and Immunology
300-6174 University Boulevard
Vancouver, BC V6T 1Z3
Tel: 604-822-3615
Fax: 604-822-6041
Email: **ssmall@interchange.ubc.ca**
Website: **www.microbiology.ubc.ca**

Ms. Shelley Small, Graduate Program Coordinator

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

Program Requirements

Students must complete a total of 18 credits of coursework including Molecular Microbiology Techniques (MICB 506) which will be taken in the first year of the program. In addition, the student must perform research work under a research supervisor and write and defend a thesis based on this research.

Contact Information:

Department of Microbiology & Immunology
Life Sciences Centre 2716 Health Sciences Mall
Vancouver, BC V6T 1Z3

Tel: 604-822-3615
Fax: 604-822-6041
Email: grad@microbiology.ubc.ca
Web: www.microbiology.ubc.ca

Michael Hermawan, Graduate Program Coordinator

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Mining Engineering** **Degrees Offered: Ph.D. M.A.Sc.** ***Members*** **Professors** J. A. Meech, M. Scoble, W. Wilson. **Associate Professors** S. W. Dunbar, R.A. Hall, B. Klein, R. Pakalnis, M. Veiga. **Assistant Professors** M. Pawlik. ***Program Overview*** The graduate program in Mining Engineering offers opportunity for study in the fields of mining and mineral processing, including mine environment and coal preparation. Areas of research interest are indicated below. • Mining. Mine economics and valuation, mine design, drilling and blasting methods, rock mechanics and slope stability, optimization and simulation of mining operations, advanced mining methods, mine services (particularly mine ventilation), and climatic control. • Mineral processing. Unit operations, comminution, process modeling and optimization, expert systems,	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,276** **Present Calendar Entry:** **Degrees Offered** *M.A.Sc., M.Eng.* *Ph.D.* **Program Overview** The graduate program in Mining Engineering offers opportunity for study in the fields of mining and mineral processing, including mine environment and coal preparation. Areas of research interest are indicated below. ▪ Mining. Mine economics and valuation, mine design, drilling and blasting methods, rock mechanics and slope stability, optimization and simulation of mining operations, advanced mining methods, mine services (particularly mine ventilation), and climatic control. ▪ Mineral processing. Unit operations, comminution, process modelling and optimization, expert systems, instrumentation and computer control. Flotation, surface chemistry, fines recovery, coal recovery, treatment of fine and oxidized coal, and precious metals recovery. ▪ Mining Environment. Acid rock drainage, environmental protection, effluent control and treatment. Students must satisfy the admission requirements of the Faculty of Graduate Studies including, for international students whose first language is not English, a minimum TOEFL score of 550.

instrumentation and computer control. Flotation, surface chemistry, fines recovery, coal recovery, treatment of fine and oxidized coal, and precious metals recovery.
• Mining and Environment. Acid rock drainage, environmental protection, effluent control and treatment. Social and legal aspects of sustainable mining practices, small-scale mining in developing countries.

Students must satisfy the admission requirements of the Faculty of Graduate Studies including, for international students whose first language is not English, a minimum TOEFL score of 550.

Students should note that not all courses listed are offered every year.

Doctor of Philosophy

Admission Requirements

Students admitted to the Ph.D. degree program normally possess a M.A.Sc. degree in Mining Engineering or a related area, with clear evidence of research ability or potential. All applicants must meet the Faculty of Graduate Studies' minimumacademic standards for admission Transfer from the master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Interested applicants should contact the Department for further information. Students who wish to be considered for financial assistance should apply for admission as early as possible.

Program Requirements

The Doctor of Philosophy program combines coursework with a research thesis. Students select their courses in consultation with faculty to suit their research needs.

All doctoral students are required to successfully complete a comprehensive examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Applied Science

Students should note that not all courses listed are offered every year.

Doctor of Philosophy

The Doctor of Philosophy program combines course work with a research thesis. Students select their courses in consultation with faculty to suit their research needs. Part-time students are actively encouraged by the Department and interested applicants should contact the Department for further information. Students who wish to be considered for financial assistance should apply for admission as early as possible.

Master of Applied Science

The Master of Applied Science (M.A.Sc.) program combines research and course work and requires a total of 30 credits. A research thesis is assigned between six to 12 credits by the head of the Department in consultation with the research supervisor.

Master of Engineering

The Master of Engineering (M.Eng.) program is a course work master's program normally intended for engineers having at least one year of industrial experience who wish to upgrade their skills or develop new expertise in a particular specialized subject area. A total of 30 credits of course work are required, 24 of which must be 500-level graduate courses. Part-time and full-time study options are offered.

Contact Information

Department of Mining Engineering
Room 517- 6350 Stores Road
Vancouver, BC V6T 1Z4
Tel: 604-822-2540
Fax: 604-822-5599
Email: **maria@mining.ubc.ca**
Website: **www.mining.ubc.ca**

Ms. Maria Lui, Graduate Secretary

Type of Action:
Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort

Admission Requirements

Students admitted to the M.A.Sc. degree program normally possess a bachelor degree in Mining Engineering or a related area, and must meet the general admission requirements for Master's degree programs set by the Faculty of Graduate Studies.

Program Requirements

The Master of Applied Science (M.A.Sc.) program combines research and course work and requires a total of 30 credits. A research thesis is assigned between six to 12 credits by the head of the Department in consultation with the research supervisor.

For information about the professional Master of Engineering (M.Eng.) program, please see the {I|13813|Faculty of Applied Science} or visit the {H|www.mining.ubc.ca/program website}.

Contact Information:

Department of Mining Engineering
Room 517- 6350 Stores Road
Vancouver, BC V6T 1Z4

Tel: 604-822-2540
Fax: 604-822-5599
Email: maria@mining.ubc.ca
Web: www.mining.ubc.ca

Dr. Marek Pawlik, Graduate Advisor

Maria Lui, Graduate Secretary

to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Music** **Degrees Offered: Ph.D. D.M.A. M.A. M.Mus.** ***Members*** **Professors** **Associate Professors** **Assistant Professors** ***Program Overview*** The School of Music offers graduate programs and degrees in three broad fields of specialization: performance, composition, and music scholarship. The Master of Music (M.Mus.) is offered in composition and performance concentration in piano, organ, harpsichord, guitar, orchestral instruments, voice, choral conducting, or opera. The Doctor of Musical Arts (D.M.A.) is offered in composition and performance concentration in piano, voice, or orchestral instruments. The Master of Arts (M.A.) and the Doctor of Philosophy (Ph.D.) in Music are offered with emphases on theory, historical musicology, and ethnomusicology. The School occupies a well-equipped building, which includes a fine recital hall (300 seats). The Chan Centre for the Performing Arts, contains the 1,400-seat Chan Shun Concert Hall. The Music Library houses the second largest collection in Canada, including over 70,000 books and scores. The School owns a growing collection of instruments, including 125 pianos,	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,277 **Present Calendar Entry:** **Degrees Offered** *M.A., M.Mus.* *D.M.A., Ph.D.* **Program Overview** The School of Music offers graduate programs and degrees in three broad fields of specialization: performance, composition, and music scholarship. The Master of Music (M.Mus.) and Doctor of Musical Arts (D.M.A.) are offered in performance and composition; the Master of Arts (M.A.) and the Doctor of Philosophy (Ph.D.) in Music with emphases on theory, historical musicology, and ethnomusicology. Master's degrees are available on a part-time basis. Performers in the M.Mus. may concentrate in piano, organ, harpsichord, guitar, orchestral instruments, voice, choral conducting, and opera; the areas of concentration within the D.M.A. are piano, voice, and orchestral instruments. In addition to fulfilling recital requirements for their degrees, students of performance have many opportunities to play in large and small ensembles of substantial quality, both for credit and in voluntary support of colleagues. Ensembles specializing in new music, early music, and non-European music are available for credit. The School typically presents one or more fully staged operas each year. Graduate student composers have occasions to hear their works in regularly scheduled concerts as well as in their degree recitals. The UBC Symphony performs or reads students' orchestra pieces from time to time and the choirs are all active in presenting student works. The computer music studio is of considerable scope

several important violins, a 64-rank organ by Casavant (1969), many historical wind and string instruments (including two harpsichords and a forte piano), and instruments representing several Asian traditions including Javanese and Balinese gamelans and numerous Chinese and Japanese stringed and wind instruments.

Doctor of Philosophy

Admission Requirements

Admission to the Ph.D. program requires a Master's degree and evidence of research competence. In addition, all applicants must meet the Faculty of Graduate Studies' minimum academic standards for admission. Areas of specialization include scholarly studies in musicology (historical or ethnographic studies and theoretical studies, with individual programs subject to explicit orientation and certification in one of these two major directions.
Transfer from the MA to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

The program is designed to provide thorough training in the techniques and applications of musical research and analysis. The dissertation is expected to demonstrate a capacity for doing research which enhances or qualifies existing bodies of knowledge, or which presents important new interpretations of prevailing materials and methods.

Credit requirements for the Ph.D. are: 21 credits of coursework, comprehensive examinations, and a thesis. For language requirements, a Graduate Programs brochure is available from the School of Music.

Doctor of Musical Arts

The D.M.A. program is designed for performers and composers who have already reached a high level of proficiency and artistry in their fields and who may wish to teach at the university level. This program offers an opportunity to bring creative and performance achievement to a high level while enriching individual backgrounds with cognitive studies. Students in music performance are expected to pursue supplementary individual projects in and is open to students on a 24-hour basis.

Areas of scholarly research emphasis pursued by faculty include Renaissance sacred polyphony; source studies in the music of Bach and other major composers; Reformation and Counter-Reformation; nineteenth-century topics (program music, form, harmony); twentieth-century American music, Second Viennese School; issues in rhythmic analysis; theory construction and analytical method; computer-based analysis; aspects of modern and contemporary music and musical life; and music of East Asia (especially China and Bali). The faculty in performance and composition includes many figures well-known throughout Canada and beyond for their work in concert, on radio, and on CDs.

The School occupies a well-equipped building of moderate size, which includes a fine recital hall (300 seats). The Chan Centre for the Performing Arts, containing the 1400-seat Chan Shun Concert Hall, opened in March 1997. The Music Library is in the Music Building and houses the second largest collection in Canada, including over 70,000 books and scores. Among its holdings are particularly good microfilm collections of European manuscript sources, of 19th-century music journals, and of materials relating to the music of Brahms. The School owns a growing collection of instruments, including 125 pianos, several important violins, a 64-rank organ by Casavant (1969), many historical wind and string instruments (including two harpsichords and a forte piano), and instruments representing several Asian traditions including Javanese and Balinese gamelans and numerous Chinese and Japanese stringed and wind instruments.

The School admits highly qualified students who possess either a bachelor's or master's degree. In addition to standard materials required by the University, applicants in performance must submit a tape of ample scope and good audio quality to the School's graduate secretary, or else appear for an in-person audition. Composers must submit the scores and tapes of about four representative works. Both composers and performers should submit a term paper. Applicants in the scholarly areas should submit at least two term papers or the equivalent. The Graduate Record Examination (GRE) General Test is required for all Ph.D. applicants. Some applicants in ethnomusicology, depending on their background, may request an exemption. The request should be made, in writing, as far in advance of the January 31 application deadline as possible, and include a rationale. Entering students for the M.A., the M.Mus. in composition, the D.M.A. and Ph.D.

performance practice and music literature. Studies in music theory and music history are included. Graduate student composers work closely with faculty in composition and music theory, and are expected to compose major works for public performance in addition to fulfilling course requirements.

Admission Requirements

In addition to meeting the Faculty of Graduate Studies' minimum academic standards for admission, applicants must possess MMus degree or equivalent and outstanding performing ability.
Transfer from the MMus to the DMA program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

Credit requirements for the D.M.A. in composition are: 30 credits of coursework (15 of which are in the major field); a completed portfolio of works, demonstrated proficiency in a language other than English; three comprehensive examinations; and a thesis comprising a major work and accompanying document. The D.M.A. in performance requires 42 to 44 credits (of which 60% are in the major field; comprehensive examinations; and a thesis comrpised of four recitals and a seperate written document meeting the Faculty of Graduate Studies requirements.

Master of Arts

The M.A. program, offered in the fields of historical musicology, music theory and ethnomusicology, is designed to acquaint the student with methods of scholarly research.

Admission Requirements

In addition to meeting the Faculty of Graduate Studies' minimum academic standards for admission, applicants must fulfill supplemental admission requirements as outlined in the Program's website. www.music.ubc.ca

Program Requirements

The Program provides broad general training in addition to opportunities for specialized research degrees (ethnomusicologists excepted in most cases) will be asked to take placement tests in music theory and history in late August, and could be required, depending on the results of these tests, to do remedial course work. All entering graduate students are expected to have levels of keyboard proficiency appropriate to successful completion of two years of class piano and will be asked to demonstrate this before beginning their studies. Applicants to ethnomusicology may be asked to demonstrate different proficiencies; please consult the School's graduate advisor.

Credit requirements are as follows:

- For the M.A., 30 to 32 credits, typically including a six-credit thesis, and 14 to 18 credits of required courses. Proficiency in one appropriate language must be demonstrated.
- For the M.Mus., 33 to 39 credits, including a six-credit thesis comprised of one or more required recitals, and 18 to 25 credits of required courses (including private study).
- For the D.M.A. in composition, 33 credits of course work, 15 of which are in the major field, a completed portfolio of works, demonstrated proficiency in one foreign language, comprehensive examinations, and a thesis comprising a major work and accompanying document; for the D.M.A. in performance, 42 to 44 credits, of which 60% are in the major field, comprehensive examinations, and a thesis comprised of four recitals and a written document.
- For the Ph.D., 21 credits of course work, comprehensive examinations, and a thesis. For language requirements, see the School of Music brochure, *Graduate Programs*.

Contact Information

School of Music
6361 Memorial Road
Vancouver, BC V6T 1Z2
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Website: **www.music.ubc.ca**

Ms. Rayne Todd, Graduate Secretary

in particular areas of inquiry. Prescribed curricula are flexible, providing latitude to meet diverse individual needs. A thesis is required and the program is normally of two years' duration.

Credit requirements for the M.A. are: 30 to 32 credits, typically including a six-credit thesis, and 14 to 18 credits of required courses. Proficiency in one appropriate language must be demonstrated.

Master of Music

The M.Mus. degree in performance and composition is offered to students who have achieved necessary levels of attainment and productivity at the undergraduate level, and who give reasonable promise of further significant accomplishment. This degree is often a final academic step for the musician who wishes to enter the professional world, although it may prove to be an intermediate step for those wishing to prepare for university teaching.

Admission Requirements

In addition to meeting the Faculty of Graduate Studies' minimum academic standards for admission, applicants must possess outstanding performing ability.

Program Requirements

Students in Performance present a recital or opera performance in lieu of thesis, while the graduate composition student presents a program of original works. A two year residency is the norm.

Credit requirements for the M.Mus. are: 33 to 39 credits (including a 6-credit thesis comprised of one or more required recitals), and 18 to 25 credits of required courses (including private study).

Contact Information:

School of Music
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Email: music.advisor@ubc.ca
Web: www.music.ubc.ca

Rayne Todd, Student Advisor

Type of Action:
Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Nursing** **Degrees Offered: Ph.D. M.S.N.** ***Members*** **Professors** E. A. Carty, J. L. Johnson, P. Ratner, S. Thorne. **Associate Professors** A. Browne, A. L. Dewar, W. A. Hall, A. Henderson, C. J. Jillings, G. L. Joachim, M. J. Lynam, A. Perry, P. Rodney, E. Saewyc, C. Varcoe. **Assistant Professors** L. Balneaves, G. Boschma, C. Canam, L. Chiu, S. Dahinten, B. Garrett, J. Oliffe, J. A. Phinney, V. Smye, F. Warnock, S. Wong. ***Program Overview*** The School of Nursing offers two graduate degrees: a Master of Science in Nursing (M.S.N.) and the Doctor of Philosophy (Ph.D.). These graduate degree programs provide advanced professional leadership, clinical scholarship and research training beyond the baccalaureate degree in nursing. ***Doctor of Philosophy***	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,279 **Present Calendar Entry:** **Degrees Offered** *M.S.N.* *Ph.D.* **Doctor of Philosophy** The Ph.D. program in Nursing is designed to prepare researchers and leaders to develop the knowledge base of nursing. The program combines core courses totalling 12 credits, support courses as specified by the supervisory committee, and a thesis. A comprehensive examination is held upon completion of all required course work. Applicants to the program are admitted on the basis of outstanding achievement in their master's program; evidence of potential for research and scholarship; an ability to be self-directed; and articulated goals in keeping with the resources available in the program, including available faculty support and programs of research. The number of qualified applicants that can be accepted in any given year is determined by faculty resources and other factors. Applicants must at minimum meet the admission requirements of the Faculty of Graduate Studies. GRE scores are required by the School of Nursing. Canadian students must hold practicing nurse registration in BC or another province. International students must meet general eligibility criteria for nurse registration in BC. **Master of Science in Nursing** The M.S.N. program is designed to prepare graduates to function as leaders in a range of roles such as education, advanced practice, policy implementation, health-care management

Admission Requirements

Applicants to the program are admitted on the basis of outstanding achievement in their master's program; evidence of potential for research and scholarship; an ability to be self-directed; and articulated goals in keeping with the resources available in the program, including available faculty support and programs of research. The number of qualified applicants that can be accepted in any given year is determined by faculty resources and other factors. Applicants must at minimum meet the admission requirements of the Faculty of Graduate Studies. GRE scores are required by the School of Nursing. Canadian students must hold practicing nurse registration in BC or another province. International students must meet general eligibility criteria for nurse registration in BC.

Transfer from the M.S.N. to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

The Ph.D. program in Nursing is designed to prepare researchers and leaders to develop the knowledge base of nursing. The program combines core courses totaling 12 credits and support courses as specified by the supervisory committee. All doctoral students are required to successfully complete a comprehensive examination and an oral candidacy examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science in Nursing

Admission Requirements

Applicants must be registered nurses with a baccalaureate degree, normally in nursing, who meet the admission requirements of the UBC Faculty of Graduate Studies. Successful applicants will be drawn from the top-ranked candidates who have a minimum overall average of 76% at the third- and fourth-year levels, with a first class standing (80% or above) in 12 credits or more of nursing courses in their baccalaureate program. GRE scores are required by the School of Nursing. In order to be included among the top-ranked candidates, there must be clear evidence that the applicant is competent to pursue studies in the English language. Completion of a satisfactory TOEFL (Test of English as a Foreign Language), with a minimum score of 600, may be required before any offer of admission can be made.

The School offers a Nurse Practitioner (Family) option, within the M.S.N .program, that prepares family nurse practitioners who will work in primary care settings. Graduates will be prepared to assess, diagnose and treat common and predictable conditions across the lifespan. In contrast to the general M.S.N. program, this option comprises 54 credits of course work designed to meet the anticipated competencies associated with program approval so that graduates may sit national credentialing exams and be eligible for provincial licensure. Applicants must meet the general requirements for admission to the M.S.N. program, have completed a minimum of three years of clinical practice as a registered nurse, demonstrate clinical excellence, and provide evidence of their ability to work autonomously.

Contact Information

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Email: **peggy@nursing.ubc.ca**
Website:
www.nursing.ubc.ca/program/start11.html

Ms. Peggy Faulkner, Graduate Secretary

Type of Action:

ranked candidates, there must be clear evidence that the applicant is competent to pursue studies in the English language. Completion of a satisfactory TOEFL (Test of English as a Foreign Language), with a minimum score of 600, may be required before any offer of admission can be made.

Program Requirements

The M.S.N. program is designed to prepare graduates to function as leaders in a range of roles such as education, advanced practice, policy implementation, health-care management and nursing knowledge development. The program provides a basis for leadership in professional nursing practice and also creates a foundation for doctoral studies. Within the 33 credit program, the student may do a major essay (3 credits) or a thesis (6 credits).

The School offers a Nurse Practitioner (Family) option, within the M.S.N. program, that prepares family nurse practitioners who will work in primary care settings. Graduates will be prepared to assess, diagnose and treat common and predictable conditions across the lifespan. In contrast to the general M.S.N. program, this option comprises 54 credits of coursework designed to meet the competencies associated with CRNBC education program recognition so that graduates may sit in credentialing examinations and be eligible for provincial licensure. Applicants must meet the general requirements for admission to the M.S.N. program, have completed a minimum of three years of clinical practice as a registered nurse, demonstrate clinical excellence, and provide evidence of their ability to work autonomously.

Contact Information:

School of Nursing
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Web: www.school.nursing.ubc.ca

Peggy Faulkner, Graduate Programs Assistant

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Occupational and Environmental Hygiene** **Degrees Offered: Ph.D. M.Sc.** ***Members*** **Professors** M. Brauer, M. Hodgson, S. M. Kennedy, K. E. Teschke. **Associate Professors** P. Demers. **Assistant Professors** K. Bartlett, W. Chu, H. Davies. ***Program Overview*** The vision of the School of Occupational and Environmental Hygiene is a world in which risks from occupational and environmental hazards are minimized by their recognition, evaluation and control, to the benefit of workplace and community health and well-being. Our mission is to enhance public health and well being through minimizing risks from occupational and environmental hazards by providing an outstanding education to students and professionals, by generating new knowledge through research, and by effectively communicating this knowledge.	**URL:** **http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,281** **Present Calendar Entry:** **Degrees Offered** *M.Sc.* *Ph.D.* **Program Overview** Occupational and environmental hygiene is the study of occupational and environmental risk factors to human health. Its focus is the anticipation, recognition, evaluation, and control or management of such exposure risks. The School of Occupational and Environmental Hygiene offers programs leading to the Doctor of Philosophy or Master of Science degrees. For additional information, see ***The School of Occupational and Environmental Hygiene***. For additional information and online applications, please visit the **School of Occupational and Environmental Hygiene website**. **Doctor of Philosophy** The School offers a Doctor of Philosophy program for advanced study and research in the area of Occupational and Environmental Hygiene. The Doctor of Philosophy is primarily a research degree; students should enter with a strong background in their field of study. **Supervisory Committees** A supervisory committee consists of the research supervisor and a minimum of two other faculty members to advise the student and

Students interested in research or professional careers in any aspect of workplace or community environmental exposures and their impact on human health are encouraged to apply. The School's major research themes include acoustics, noise and vibration; exposure assessment and epidemiology; analytical methods development using immunological, biological, chemical and microsensor methods; occupational and environmental respiratory disease; and risk assessment and translation of research to policy.

For additional information, see {I|10630|The School of Occupational and Environmental Hygiene} or our {H|www.soeh.ubc.ca|website}.

Doctor of Philosophy

Admission Requirements

The Doctor of Philosophy is a research degree; students should enter with a strong background in their field of study. The primary goal of the Ph.D. program is to develop the occupational and environmental hygiene researchers, university teachers, and policy makers of tomorrow. Applicants to the Ph.D. program are expected to meet the admission requirements of the {I|6755|Faculty of Graduate Studies}. Transfer from the Master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

Students with a Master's degree in occupational or environmental sciences must complete a minimum of nine credits of courses; those from other disciplines must complete a minimum of 18 credits of courses including nine credits selected from a list of specified 'core' courses. Specific course requirements are determined by the student's supervisory committee in consultation with the student; additional courses may be necessary in support of the proposed thesis research. As research is the cornerstone of any doctoral program, emphasis will be on courses that promote an understanding of research methodologies. In addition to standard course work all doctoral students must participate in the School's research seminars throughout their doctoral program. All doctoral students are required to successfully complete a comprehensive examination. The major develop the program of studies. The SOEH Graduate Advisor will be informed of the program of study and sign off once the program is approved.

Program

Each doctoral student's program is designed by the supervisory committee in consultation with the student to reflect individual requirements.

The first year of the doctoral program usually involves course work in preparation for the comprehensive examination and development of the thesis proposal. Students with a master's degree in occupational and environmental sciences must complete a minimum of 9 credits of courses selected in consultation with the supervisory committee. Students with master's degrees in other disciplines must complete a minimum of 18 credits of courses, selected in consultation with the supervisory committee; 9 of these credits must be selected from the list of courses provided for the research-option masters degree in Occupational and Environmental Hygiene. Specific course requirements are decided by the candidate's committee in consultation with the candidate; additional courses may be necessary in support of the proposed thesis research. In addition to the standard course work, all doctoral students must participate in the research in progress seminar (OCCH 640) throughout their doctoral program. This will be a pass/fail course.

Doctoral students take a comprehensive exam on the completion of their course requirements.

Students will design their research programs in consultation with their supervisory committee and prepare a thesis research proposal. After the thesis proposal has been approved, the candidate's efforts are devoted to research and preparation of the thesis.

Admissions

Applicants for admission must have a master's degree in occupational and/or environmental sciences or a related field (e.g., engineering, natural sciences, health sciences), with high academic standing from a recognized institution. To ascertain the School's ability to fulfil potential applicants' objectives, a statement is required describing the applicants' research interests and objectives; this should be submitted with the application package. An application will be considered complete when an application form, application fee, statement of objectives, curriculum vitae, two official copies of all

requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science

Admission Requirements

Applicants to the M.Sc. program are expected to meet the admission requirements of the {I|6755|Faculty of Graduate Studies}.

Program Requirements

Students in the Master of Science program may choose to follow a project or thesis option. Because of the varied backgrounds of students, both options are relatively course-intensive and include specific non-credit requirements related to adult education in addition to regular coursework.

Students in the **project option** must complete 11 mandatory courses, a six-credit project based on a 4-month co-op placement (culminating in a comprehensive technical report and presentations), and approved electives to make up a total of 45 credits of course and project work. After completion of all required components students must also pass a comprehensive examination.

The **thesis option** also comprises 45 credits of courses and research work. Students are required to complete three mandatory courses (including two research seminars), 16.5 credits of courses chosen from a list of specified 'core' courses, a further 12 credits of approved electives, and complete a 12-credit research thesis (culminating in an oral examination).

Further details regarding required courses and non-credit activities are available on the {H|www.soeh.ubc.ca|SOEH website}.

Contact Information:

School of Occupational and Environmental Hygiene
3rd Floor - 2206 East Mall LPC
Vancouver, BC V6T 1Z3

transcripts, three reference letters, and results of the Graduate Record Examination and the TOEFL, TWE and TSE (if required) have been received. A minimum TOEFL score of 600 (paper-based) or 250 (computer-based) is required.

Application deadline is February 28.

Applications to transfer to the Ph.D. program after completion of the first year of the master's program will be considered in exceptional cases. All applicants must satisfy the general regulations of the Faculty of Graduate Studies of UBC, and must be accepted by the School of Occupational and Environmental Hygiene Admissions Committee.

For more information, visit the **SOEH website**. All documents and the appropriate application fee should be submitted to the School Office. The deadline for submitting complete applications is February 28.

Master of Science

An interdisciplinary program is offered leading to the Master of Science degree in Occupational and Environmental Hygiene. The program is designed to prepare students for careers in industry, government, or para-government sectors. The student must follow one of two options:

1. 39 credits of courses and a 6-credit project, requiring a minimum of 16 months of full-time study or equivalent amount of time on a part-time basis; or

2. 33 credits of courses and a 12-credit thesis, generally requiring 20 to 24 months of full-time equivalent work.

The required courses for the project option include: OCCH 501, 502, 503, 504, 506, 507*, 511, 512 or 510, 595, 598; plus CHBE 506*; HCEP 532; HCEP 533 and MECH 505. *(*OCCH 507 and CHBE 506 are not currently offered)*

Thesis students must complete:

- 4.5 credits of core courses:OCCH 501, OCCH 540, OCCH 595;

- 16.5 credits selected from the following list: OCCH 502, 503, 504, 505, 506, 507*, 508, 510, 511, 512; CHBE 506*; HCEP 530, 531, 532, 533, 534; MECH 505; PLAN 599;

- 12 credits of elective courses chosen in consultation with the thesis committee;

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Crissy Giesbrecht, Graduate & Academic Assistant

- 12 credit thesis (OCCH 599).
  *(*OCCH 507 and CHBE 506 are not currently offered)*

The program provides graduates not only with the proficiency to practice as a hygiene professional, but also with the intellectual, social and ethical groundwork to forge new approaches to issues affecting the health and well-being of the community.

Admission

Prospective applicants should have completed a bachelor's degree in such areas as the physical or health sciences or engineering. There are no specific prerequisite courses. In exceptional circumstances, candidates with other backgrounds or mature students whose work experience makes up for deficiencies in standing may be admitted with the permission of the Director of the School and the Dean of Graduate Studies. A typical class will have eight to twelve students.

Candidates should obtain application materials and more detailed information from the School of Occupational and Environmental Hygiene. Completed application forms must be received by the School by February 28 for admission in September. Students wishing to be considered for scholarship or fellowship support are encouraged to apply as early as possible in the fall of the year preceding the year to which admission is sought.

Contact Information

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Email: **crissyg@interchange.ubc.ca**
Website: **www.soeh.ubc.ca**

Ms. Crissy Giesbrecht, Graduate and Academic Assistant

Type of Action:
Edit Calendar entry.

Rationale:

	The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Planning** **Degrees Offered: Ph.D. M.A.P. M.Sc.P.** ***Members*** **Professors** J. Berechman, P. D. Boothroyd, A. H. J. Dorcey, T. L. McDaniels, W. E. Rees, L. Sandercock, H. Schreier. **Associate Professors** L. C. Angeles, S. E. Chang, L. D. Frank, P. C. Gurstein, T. A. Hutton, M. Leaf. **Assistant Professors** M. A. Larice. ***Program Overview*** The School of Community and Regional Planning (SCARP) was created in 1952 and has one of the largest planning programs in Canada. The School's mission is to advance the transition to sustainability through excellence in integrated policy and planning research, professional education, and community service. We emphasize an integrated approach to planning through five concentrations or streams: urban policy and community development, international development, environmental and natural resources, urban design, and planning process and methods. The M.A.P. and M.Sc.P. degrees are recognized by the	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,219 **Present Calendar Entry:** **Degrees Offered** *M.A.P., M.Sc.P.* *Ph.D.* **Program Overview** The School of Community and Regional Planning (SCARP) was created in 1952 and has one of the largest planning programs in Canada. The School's mission is to advance the transition to sustainability through excellence in integrated policy and planning research, professional education, and community service. We emphasize an integrated approach to planning through four concentrations or streams: urban spatial planning, community development planning, environmental and natural resources planning, and international development planning. The School's master's degrees are recognized by the Canadian Institute of Planners and the American Institute of Certified Planners. SCARP's research arm, the Centre for Human Settlements, is involved in a variety of planning research projects focusing on urban development issues in both North and South America and Asia. In addition, two SCARP faculty are attached to Westwater Research in the Institute for Resources, Environment and Sustainability. Full details on SCARP can be found in ***The School of Community and Regional Planning*** section of the Calendar and on the **School of Community and Regional Planning's website**. **Contact Information**

Canadian Institute of Planners and the American Institute of Certified Planners.

SCARP's research arm, the {I|9436|Centre for Human Settlements}, is involved in a variety of planning research projects focusing on urban development issues in both North and South America and Asia. In addition, two SCARP faculty are attached to the {I|9503|Westwater Research Unit} and four SCARP faculty are attached to the {I|9494|Institute for Resources, Environment and Sustainability}.

Full details on SCARP can be found in the chapter {I|2194|The School of Community and Regional Planning} and on the School of Community and Regional Planning's {H|www.scarp.ubc.ca|website}.

Doctor of Philosophy

Admission Requirements

The School offers a Doctor of Philosophy program for advanced study and research in the areas of its competence. Applicants for admission must have a Master's degree in Planning, or its equivalent, with high academic standing. To ascertain the School's ability to fulfill potential students' objectives, a statement of about 1000 words is required describing their research interests and objectives which should be submitted at least 1 month before the application deadline.

Transfer from the Master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

For more information, visit the SCARP {H|www.scarp.ubc.ca|website}. All documents and the appropriate application fee should be returned to the Director's Office. The deadline for submitting complete applications is December 1.

Program Requirements

The Doctor of Philosophy is primarily a research degree, so that students should enter with a strong background in their field of study. After 2 years of coursework and examinations, candidates devote their efforts toward thesis research.

All doctoral students are required to successfully complete a comprehensive examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies

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433-6333 Memorial Road
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Tel: 604-822-3276
Fax: 604-822-3787
Website: **www.scarp.ubc.ca**

Ms. Rhoda Thow, Administrator
Ms. Eve Clarke, Ph.D. Admissions
Ms. Patti Toporowski, Master's Admissions

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

requirements.

Master of Arts in Planning

The master's degree will be either a Master of Arts (Planning) or a Master of Science (Planning), whichever best describes the academic background of the student and the course of studies chosen for the Master's degree.

Admission Requirements

Students admitted to the M.A.P. degree program normally possess a bachelor's degree in a related area, and must meet the general admission requirements for master's degree programs set by the Faculty of Graduate Studies.

Program Requirements

The M.A.P. or M.Sc.P. degree is awarded upon satisfactory completion of a program consisting of 60 credits, including a thesis or project, over two academic years. Those students who wish to develop a strong specialization may satisfy a significant proportion (up to 12 credits) of this requirement through courses in other departments.

Full details on Master's programs can be found in the chapter {I|2198|The School of Community and Regional Planning} and on the School of Community and Regional Planning's {H|www.scarp.ubc.ca|website}.

Master of Science in Planning

The master's degree will be either a Master of Arts (Planning) or a Master of Science (Planning), whichever best describes the academic background of the student and the course of studies chosen for the Master's degree.

Admission Requirements

Same as Master of Arts in Planning.

Program Requirements

See Master of Arts in Planning

Contact Information:

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Web: www.scarp.ubc.ca

Patti Topoworski (Master's) Doris Jow (PhD), Master's or Ph.D. Admissions

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Resource Management and Environmental Studies** **Degrees Offered: Ph.D. M.A. M.Sc.** ***Members of the Faculty of Graduate Studies*** **Professors** H. Dowlatabadi, K. Hall, M. J. Healey, T. McDaniels, J. B. Robinson, H. E. Schreier, I. B. Vertinsky. **Associate Professors** S. Chang, L. Frank, S. Hinch. **Assistant Professors** T. Satterfield. ***Program Overview*** The Institute for Resources, Environment and Sustainability provides interdisciplinary graduate study through the Resource Management and Environmental Studies program (RMES). RMES provides a home for graduate students focusing on the integration of the biophysical (ecological) and the socio-economic and political realities of resource management within the context of a sustainable healthy environment. Students in RMES develop academic programs for their graduate degrees tailored to draw on the expertise of faculty from across the campus,	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,298 **Present Calendar Entry:** **Degrees Offered** *M.A., M.Sc.* *Ph.D.* **Program Overview** Aspects of resource management are available in a number of disciplinary units at the University of British Columbia. The breadth and synthesis of knowledge required to deal with issues that confront resource managers, scientists and decision-makers is unprecedented in the history and practices of environmental resource use. These realities lead to the development of the interdisciplinary program in Resource Management and Environmental Studies. Recognizing the need to integrate the social and the natural (engineering) sciences, the program offers a Ph.D., M.A. and M.Sc. The Resource Management and Environmental Studies graduate program's objective is to aid students to develop an holistic understanding of the ecological, social and economic dimensions of natural resource use and environmental interactions. The program advises students of options in resource management and environmental studies and provides a forum to facilitate life-long learning skills. The Resource Management and Environmental Studies program co-ordinates and supervises these student-tailored programs. All faculty members within the Faculty of Graduate Studies are potential supervisors and serve on graduate student supervisory committees. Students entering come from diverse backgrounds. Individual and flexible programs of study are designed to take previous training and interest into account. Students are required to

as well as the private and public sectors. To enable students to develop unique graduate programs that capture the breadth of their previous educational experience and their academic and career goals, the RMES program offers either an M.A. or M.Sc. option as well as a Ph.D. Supervisors of graduate students, as well as members of the supervisory committee, are selected from across the University representing the faculties of Arts, Science, Applied Science, Law and Graduate Studies.

Doctor of Philosophy

Admission Requirements

The academic program is flexible and, to a large extent, tailored to the educational goals of the student. A thesis proposal is required at the time of formal application to the program. The thesis proposal facilitates the selection of an appropriate supervisor, supervisory committee and individual academic direction. Students admitted to the Ph.D. degree program normally possess a master's degree, with clear evidence of research ability or potential. Transfer from the Master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

The Ph.D. program involves intensive research resulting in an original and scholarly contribution to knowledge in the field of study. The student is expected to initiate and develop a research plan in consultation with their supervisory committee. The program, because of its comprehensive nature normally requires 3 to 4 years for completion. Students admitted to the RMES program will be required to take RMES 500, RMES 501 and RMES 502, or equivalent courses as recommended by the supervisory committee. Additional coursework may be selected in consultation with the student's supervisory committee and approved by the graduate program chair.

Doctoral students are required to successfully complete a comprehensive examination and required coursework within 24 months of entering into the Program. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

take core Resource Management and Environmental Studies courses, as well as courses to be approved by the supervisory committee and chair.

Acceptance into the program is dependent upon meeting the admission requirements of the Faculty of Graduate Studies, submission by the student of a thesis proposal acceptable to the Resource Management and Environmental Studies Committee, and acceptance by a faculty member willing to act as the student's supervisor.

The program serves as a mechanism of graduate education and training in interdisciplinary research units at the University, including the Fisheries Centre, Sustainable Development Research and Westwater Research (within the Institute for Resources, Environment and Sustainability) as well as individually designed graduate programs.

Admission

In addition to the usual requirements stated by the Faculty of Graduate Studies, each applicant is required to submit a thesis prospectus or statement outlining the issue to be addressed, the relevance of the issue, the objectives of the research, and proposed methods.

The completed application will be considered by an admissions committee. This committee will make recommendations to the Chair of the program that in turn will make recommendations to the Dean of the Faculty of Graduate Studies. Foci for applicants include human ecology, ecological policy analysis, aquatic resources, land management, riparian and coastal environments, natural resource dynamics, alternate energy resources, wilderness conservation and management, anthropogenic effects on environment and resource use, risk assessment, governance, and sustaining the human enterprise.

Doctor of Philosophy

For the Doctor of Philosophy, all candidates must complete Resource Management and Environmental Studies 500, 501, 502 (or equivalent). The remainder of the academic program is determined by the candidate and the supervisory committee.

Master of Arts and Master of Science

Master of Arts

The master's degree provides students with the opportunity to broaden their academic and research experience. The student's background, the selection of the thesis topic, the approach to research, and the program electives, govern whether the M.A. or M.Sc. degree program is pursued.

Admission Requirements

All applicants must meet the Faculty of Graduate Studies' minimum academic standards for admission

Degree Requirements

A research investigation producing a scholarly contribution to the particular area of study is necessary. Normally, these programs will take 2 years to complete, including at least 1 year of residence.

The master's degree requirement is a minimum of 36 credits, including a 12-credit thesis. Of the remaining 24 credits of course work, at least 16 credits must be in courses numbered 500 or above. The academic program must be approved by the supervisory committee and the graduate program chair. The intent of the program is to ensure that the student research and write an integrative thesis. Upon completion of the thesis, an external examiner (on or off campus) will be appointed to the examination committee for the thesis defence.

Master of Science

The master's degree provides students with the opportunity to broaden their academic and research experience. The student's background, the selection of the thesis topic, the approach to research, and the program electives, govern whether the M.A. or M.Sc. degree program is pursued.

For the master's degree, the following 36 credits are the minimum requirement for graduation: 12 credits of required courses (including RMES 502), 12 credits of electives, and a 12-credit research thesis. The student's previous academic background, the choice of electives, and the focus of the research thesis determine whether the M.A. or M.Sc. program is followed. Part-time study is not encouraged, and program without thesis is not permitted. All students must complete Resource Management and Environmental Studies 501 and 502 (or equivalent).

Contact Information

Institute for Resources, Environment and Sustainability
464-2206 East Mall
Vancouver, BC V6T 1Z3
Tel: 604-822-9249
Fax: 604-822-9250
Email: **rmesgrad@ires.ubc.ca**
Website: **www.ires.ubc.ca**

Ms. Leslie K. Stephenson, Graduate Administrator
Ms. Jennifer Shaw, Graduate Program Coordinator

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

Admission Requirements

Same as M.A.

Program Requirements

Same as M.A.

Contact Information:

Institute for Resources, Environment and Sustainability
Rm 464 - 2206 East Mall
Vancouver, BC V6T 1Z3

Tel: 604-822-9249
Fax: 604-822-9250
Email: rmesgrad@ires.ubc.ca
Web: www.rmes.ubc.ca

Lisa Belanger, Graduate Program Coordinator

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: 2

Faculty: Arts **Department:** School of Library, Archival and Information Studies **Faculty Approval Date:** **Effective Session:** Winter Term: 1 Year: 06-07 for Change	**Date:** December 1, 2005 **Contact Person:** Heather MacNeil **Phone:** 604-822-6365 **Email:** hmacneil@interchange.ubc.ca
Proposed Calendar Entry: The Joint Degree Program is designed to allow students to earn both a Master of Archival Studies and a Master of Library and Information Studies within a reasonable period of time (generally between three and five years). Students considering this option should carefully read the descriptions, including the sections regarding undergraduate preparation for each of the two individual degrees. Students who wish to complete the Joint Degree Program should indicate this as early as possible, preferably on their application submitted to the School prior to admission, or following admission by speaking to a faculty advisor. **Admission** Prospective applicants may address enquiries and applications for admission to the Admissions Secretary, School of Library, Archival and Information Studies. Specify the Joint M.A.S./M.L.I.S Degree Program. The Joint Degree Program accepts only students whose personal and academic qualifications appear to make them suitable for successful practice in library, archival, and information professions. The Joint Degree Program has a limited enrolment. The number of qualified applicants exceeds the number of available places. In recent years, therefore, those accepted have shown academic ability above the minimum	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,208,368,0 **Present Calendar Entry:** The Joint Degree Program is designed to allow students to earn both a Master of Archival Studies and a Master of Library and Information Studies within a reasonable period of time (generally between three and five years). Students considering this option should carefully read the descriptions, including the sections regarding undergraduate preparation for each of the two individual degrees. Students who wish to complete the Joint Degree Program should indicate this as early as possible, preferably on their application submitted to the School prior to admission, or following admission by speaking to a faculty advisor. **Admission** See information under ***Master of Library and Information Studies*** or ***Master of Archival Studies*** degree programs. **Language Requirement** See information under ***Master of Library and Information Studies*** or ***Master of Archival Studies*** degree programs.

required standard specified below.

Students who are applying for the Joint Degree Program must be admitted to both the M.L.I.S and the M.A.S. programs. For admission to the M.L.I.S program and the M.A.S. program, a candidate must:

1. possess a four-year bachelor's degree (or its equivalent) from a recognized university in a discipline acceptable to the Admissions Committee for the program;
2. have achieved a minimum overall average in the 'B+' range (76% at UBC) in third- and fourth-year level courses of a bachelor's degree; and
3. show promise of superior professional performance as attested by letters of reference and the SLAIS questionnaire.

Applicants to the program from international institutions will be considered on a case-by-case basis for eligibility. An applicant possessing a bachelor's degree or its academic equivalent who does not meet the requirements of point two above should contact the School's Student Services Coordinator for information regarding possible qualifying course work.

Language Requirement

See information under ***Master of Library and Information Studies*** or ***Master of Archival Studies*** degree programs.

Supervision

Candidates ~~meeting the admission standards above~~ admitted to the Joint Degree program will register in the School of Library, Archival and Information Studies and will be assigned an advisor from each of the two degree programs.

Degree Requirements

~~The two master's degrees, M.A.S. and M.L.I.S., are awarded on the completion of 81 credits of work approved by the School plus required non-credit studies such as the practicum in the M.L.I.S. program. Students must complete the following:~~

Supervision

Candidates meeting the admission standards above will register in the School of Library, Archival and Information Studies and will be assigned an advisor from each of the two degree programs.

Degree Requirements

The two master's degrees, M.A.S. and M.L.I.S., are awarded on the completion of 81 credits of work approved by the School plus required non-credit studies such as the practicum in the M.L.I.S. program. Students must complete the following:

1. the required courses in the M.L.I.S. program: LIBR 500, 510, 540, 560, 570, 590, and two three-credit LIBR elective courses (21 credits);
2. the required courses in the M.A.S. program: ARST 510, 515, 516, 520, 530, 540, and 587 (21 credits);
3. either LIBR 500 or ARST 593B (3 credits);
4. 15 credits in the M.L.I.S. program;
5. 15 credits in the M.A.S. program; and,
6. 6 additional credits in either program.

Students in the two degrees should not take courses outside those offered in the M.A.S. and M.L.I.S. programs.

Practicum/Internship

A required non-credit practicum provides direct library experience under actual

1. ~~the required courses in the M.L.I.S. program: LIBR 500, 501, 502, 503, 504, 505, and two three-credit LIBR elective courses (24 credits);~~

2. ~~the required courses in the M.A.S. program: ARST 510, 515, 516, 520, 530, 540, 587, and 593B (24 credits);~~

3. ~~students may take either LIBR 500 or ARST 593B, students may not take both;~~

4. ~~students may take either LIBR 505 or ARST 591 (3 credits), students may not take both;~~

5. ~~15 credits in the M.L.I.S. program;~~

6. ~~15 credits in the M.A.S. program; and,~~

7. ~~6 additional credits in either program.~~

~~Students in the two degrees cannot take courses outside those offered in the M.A.S. and M.L.I.S. programs.~~

Degree Requirements
The two master's degrees, M.A.S. and M.L.I.S., are awarded on the completion of a total of 81 credits of work approved by the School. Students must complete the following:

A total of 81 combined ARST and LIBR credits (39 ARST credits; 39 LIBR credits, and 3 additional credits that can be either ARST or LIBR).

Within the total of 81 credits, each student must take:
ARST 510, ARST 515, ARST 516, ARST 520, ARST 530, and ARST 540 (3 credits each for a total of 18 credits)

library operating conditions. In addition, some field experience in an archival repository is highly desirable for a student who has had limited prior contact with the work of the practicing archivist. These two work experiences will be scheduled in consultation with the student's advisors.

Co-operative Work Program

Students who have completed 24 credits of course work are eligible to apply to the School's co-op work program. Applications are submitted in September, and the work period begins in May of the following year. Depending on their needs, students may elect to take a term of work lasting either four months (May - August) or eight months (May - December), or do two consecutive four-month terms (May - August and September - December). Students are paid for their work according to industry standards. Students do not receive academic credit for their work, but participation in the co-op work program is noted on transcripts.

Thesis

A student with research interests may elect to write a thesis in one of the two fields, but not both. Consultation with the appropriate faculty advisor should begin before the student has completed one-half of the required courses.

Type of Action:
Change in program requirements
Rationale:
Course numbers have been changed for the LIBR courses. The proposed Calendar change shows the new numbers.

LIBR 501, LIBR 502, LIBR 503 (3 credits each for a total of 9 credits) LIBR 595 (0 credits) Either ARST 593B or LIBR 500 (3 credits; students cannot take both) Either ARST 591 or LIBR 505 (3 credits; students cannot take both) Either ARST 570 or LIBR 504 (3 credits; students cannot take both) Either ARST 587 or LIBR 587 (3 credits; students cannot take both) Students cannot take courses other than those designated as ARST or LIBR. **Practicum/Internship** A required non-credit practicum provides direct library experience under actual library operating conditions. In addition, some field experience in an archival repository is highly desirable for a student who has had limited prior contact with the work of the practicing archivist. These two work experiences will be scheduled in consultation with the ~~student's advisors~~ SLAIS Student Services Coordinator. **Co-operative Work Program** Students who have completed 24 credits of course work are eligible to apply to the School's co-op work program. Applications are submitted in September, and the work period begins in May of the following year. Depending on their needs, students may elect to take a term of work lasting either four months (May - August) or eight months (May - December), or do two consecutive four-month terms (May -	

August and September - December). Students are paid for their work according to industry standards. Students do not receive academic credit for their work, but participation in the co-op work program is noted on transcripts. **Thesis** A student with research interests may elect to write a thesis in one of the two fields, but not both. Consultation with the appropriate faculty advisor should begin before the student has completed one-half of the required courses.	

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: Education **Department:** ECPS **Faculty Approval Date:** June 20, 2006 **Effective Session _W__ Term _1_ Year 2006___ for Change**	**Date:** June 5, 2006 **Contact Person:** Laurie Ford **Phone:** 822-0091 **Email:** laurie.ford@ubc.ca
Proposed Calendar Entry: **School Psychology** **Degrees Offered** *Ph.D., M.A., M.Ed.* ***Members*** **Professor** S. Hymel. **Associate Professors** R. Ervin, L. Ford. **Assistant Professors** W. McKee, **K. McIntosh**, L. Miller. **Program Overview** The School Psychology graduate program prepares students to become psychologists who work in schools, academic, research, community and private practice settings. The primary goal of the program is to develop professional psychologists whose research, training and practice activities increase the educational and	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,230 **Present Calendar Entry:** (Currently at Curriculum Committee; Approved by Department and Faculty) **School Psychology** **Degrees Offered** *Ph.D., M.A., M.Ed.* ***Members*** **Professor** S. Hymel. **Associate Professors** R. Ervin, L. Ford. **Assistant Professors** W. McKee, L. Miller. **Program Overview** The School Psychology graduate program prepares students to become psychologists who work in schools, academic, research, community and private practice settings. The primary goal of the program is to develop

psychological well-being of children and youth. The program follows a scientist-practitioner model, with emphasis on the integration of theory, research and clinical skills. Training encompasses academic, social, behavioral, consultation, intervention and prevention domains, and students receive training in the integration of assessment and intervention, and in relevant professional, legal and ethical issues. Science and professional practice are viewed as interactive and complementary, with research integrated across core psychological and educational foundations, as well as relevant practical experiences at all levels of the program. The program places a strong emphasis on evidence-based prevention, intervention, and systems-level change. In addition school psychology training at UBC maintains a strong appreciation for diversity, in terms of the populations served, the students admitted, the issues and elements of practice examined and trained, and the provision of skills and experiences in working with a broad range of clients, families, and settings.

Doctor of Philosophy

The doctoral program in school psychology is designed to prepare psychologists who can serve as practitioners and supervisors in the field, trainers of school psychologists, researchers, and leaders in school psychology.

Admission Requirements
In addition to the minimum admission requirements set by the Faculty of Graduate Studies, students admitted to the Ph.D. degree program normally possess a MA in School Psychology equivalent to the requirements of the UBC MA program. Prerequisites not met prior to entry may be included in the doctoral program of study. Transfer from the MA to the Ph.D. program

professional psychologists whose research, training and practice activities increase the educational and psychological well-being of children and youth. The program follows a scientist-practitioner model, with emphasis on the integration of theory, research and clinical skills. Training encompasses academic, social, behavioral, consultation, intervention and prevention domains, and students receive training in the integration of assessment and intervention, and in relevant professional, legal and ethical issues. Science and professional practice are viewed as interactive and complementary, with research integrated across core psychological and educational foundations, as well as relevant practical experiences at all levels of the program. The program places a strong emphasis on evidence-based prevention, intervention, and systems-level change. In addition school psychology training at UBC maintains a strong appreciation for diversity, in terms of the populations served, the students admitted, the issues and elements of practice examined and trained, and the provision of skills and experiences in working with a broad range of clients, families, and settings.

Doctor of Philosophy

Admission Requirements
In addition to the minimum admission requirements set by the Faculty of Graduate Studies, students admitted to the Ph.D. degree program normally possess a MA in School Psychology equivalent to the requirements of the UBC MA program. Prerequisites not met prior to entry may be included in the doctoral program of study. Transfer from the MA to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Students are required to complete the

is permitted under regulations set by the Faculty of Graduate Studies.

Students are required to complete the GRE with a minimum score of 500 in both verbal and quantitative categories. Applicants for whom English is not their primary language should write the GRE but inform the admissions committee of this fact. Minimum TOEFL scores are 600 (paper), 250 (computer-based) or 100 (internet-based: 22 Reading, 22 Writing, 25 Listening, 25 Speaking).

Program Requirements
The typical doctoral program is 39 credits, beyond completion of the UBC School Psychology M.A. or equivalent program.

With an emphasis on leadership in facilitating systems-level change, all students take course work in school, family and community systems and diversity issues (9 credits), as well as coursework in professional practice (e.g. prevention, intervention, assessment) (6 credits) and research methodology (9 credits). Students complete supervision and specialty practicum placements (3 credits each), as well as a year long pre-doctoral internship (9 credits). All doctoral students are required to successfully complete a comprehensive examination. The final requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Arts

Admission Requirements
In addition to the minimum admission requirements set by the Faculty of Graduate Studies (normally, a four-year bachelor's degree with a B+ average in third and fourth year-level course work) in a relevant area of study, students are required to meet the following pre-requisite requirements:

- a minimum of 18 credits in Psychology, Educational Psychology or Special

GRE with a minimum score of 500 in both verbal and quantitative categories. Applicants for whom English is not their primary language should write the GRE but inform the admissions committee of this fact. Minimum TOEFL scores are 600 (paper), 250 (computer-based) or 100 (internet-based: 22 Reading, 22 Writing, 25 Listening, 25 Speaking).

Program Requirements
The doctoral program in school psychology is designed to prepare psychologists who can serve as practitioners and supervisors in the field, trainers of school psychologists, researchers, and leaders in school psychology. The typical doctoral program is 45 credits, beyond completion of the UBC School Psychology M.A. or equivalent program.

With an emphasis on leadership in facilitating systems-level change, all students take course work in school, family and community systems and diversity issues (9 credits), as well as course work in professional practice (e.g. prevention, intervention, assessment) (6 credits) and research methodology (9 credits). Students complete supervision and specialty practicum placements (3 credits each), a year-long doctoral research seminar (6 credits), as well as a year long pre-doctoral internship (9 credits). All doctoral students are required to successfully complete a comprehensive examination. The final requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements

Master of Arts

Admission Requirements
In addition to the minimum admission requirements set by the Faculty of Graduate Studies (normally, a four-year bachelor's degree with a B+ average in third and fourth year-level course work) in a relevant area of study, students are required to meet the following pre-requisite

Education and related disciplines, - senior-level course work in measurement, statistics, and research methodology, - evidence of suitability for professional work with school-aged populations, including successful work experience with school-aged populations, school-based experience and/or teacher certification. Students are required to complete the GRE with a minimum score of 500 in both verbal and quantitative categories. Applicants for whom English is not their primary language should write the GRE but inform the admissions committee of this fact. Minimum TOEFL scores are 600 (paper), 250 (computer-based) or 100 (internet-based: 22 Reading, 22 Writing, 25 Listening, 25 Speaking). **Program Requirements** The 69-credit SCPS Master of Arts (M.A.) program requires three years of full time study, including both on-campus courses and school-based practicum/internship experiences. Students are required to complete a sequence in School Psychology Practice including coursework in professional, ethical and legal issues in school psychology (3 credits); consultation (6 credits); and cognitive (3 credits), academic (6 credits), and social-emotional (3 credits) assessment and intervention; school-based interventions (3 credits); coursework in Psychological Foundations including human development (3 credits), history of psychology (3 credits), biological basis of behavior (3 credits), social basis of behavior (3 credits) and cognitive bases of behavior (3 credits) and psychopathology (3 credits). Research coursework includes: statistics (6 credits) and a Masters thesis (6 credits). A two-term integrated field practicum is completed in year two	requirements: - a minimum of 18 credits in Psychology, Educational Psychology or Special Education and related disciplines, - senior-level course work in measurement, statistics and research methodology, - evidence of suitability for professional work with school-aged populations, including successful work experience with school-aged populations, school-based experience and/or teacher certification. Students are required to complete the GRE with a minimum score of 500 in both verbal and quantitative categories. Applicants for whom English is not their primary language should write the GRE but inform the admissions committee of this fact. Minimum TOEFL scores are 600 (paper), 250 (computer-based) or 100 (internet-based: 22 Reading, 22 Writing, 25 Listening, 25 Speaking). **Program Requirements** The 69-credit SCPS Master of Arts (M.A.) program requires three years of full time study, including both on-campus courses and school-based practicum/internship experiences. Students are required to complete a sequence in School Psychology Practice including course work in professional, ethical and legal issues in school psychology (3 credits); consultation (6 credits); and cognitive (3 credits), academic (6 credits), and social-emotional (3 credits) assessment and intervention; school-based interventions (3 credits); course work in Psychological Foundations including human development, history of psychology, biological, social and cognitive bases of behavior and psychopathology (3 credits each). Research coursework includes: statistics (6 credits) and a Masters

(6 credits) in addition to the intensive school-based practicum/internship in year three (9 credits).

For B.C. teachers: Teacher Qualification Service requires a capstone experience (thesis).

Master of Education

Admission Requirements

In addition to the minimum admission requirements set by the Faculty of Graduate Studies (normally, a four-year bachelor's degree with a B+ average in third and fourth year-level course work) in a relevant area of study, students are required to meet the following pre-requisite requirements:

- a minimum of 18 credits in Psychology, Educational Psychology or Special Education and related disciplines,
- senior-level course work in measurement, statistics, and research methodology,
- evidence of suitability for professional work with school-aged populations, including successful work experience with school-aged populations, school-based experience and/or teacher certification.

Students are required to complete the GRE with a minimum score of 500 in both verbal and quantitative categories. Applicants for whom English is not their primary language should write the GRE but inform the admissions committee of this fact. Minimum TOEFL scores are 600 (paper), 250 (computer-based) or 100 (internet-based: 22 Reading, 22 Writing, 25 Listening, 25 Speaking).

Program Requirements

The 63-credit SCPS Master of Education (M.Ed.) program requires three years of full time study, including both on-campus courses and school-

thesis (6 credits). A two-term integrated field practicum is completed in year two (6 credits) in addition to the intensive school-based practicum/internship in year three (9 credits).

For B.C. teachers: Teacher Qualification Service requires a capstone experience (thesis).

Master of Education

Admission Requirements

In addition to the minimum admission requirements set by the Faculty of Graduate Studies (normally, a four-year bachelor's degree with a B+ average in third and fourth year-level course work) in a relevant area of study, students are required to meet the following pre-requisite requirements:

- a minimum of 18 credits in Psychology, Educational Psychology or Special Education and related disciplines,
- senior-level course work in measurement, statistics and research methodology,
- evidence of suitability for professional work with school-aged populations, including successful work experience with school-aged populations, school-based experience and/or teacher certification.

Students are required to complete the GRE with a minimum score of 500 in both verbal and quantitative categories. Applicants for whom English is not their primary language should write the GRE but inform the admissions committee of this fact. Minimum TOEFL scores are 600 (paper), 250 (computer-based) or 100 (internet-based: 22 Reading, 22 Writing, 25 Listening, 25 Speaking).

Program Requirements

The 63-credit SCPS Master of Education (M.Ed.) program requires

based practicum/internship experiences. Students are required to complete a sequence in School Psychology Practice including course work in professional, ethical and legal issues in school psychology (3 credits); consultation (6 credits); and cognitive (3 credits), academic (6 credits), and social-emotional (3 credits) assessment and intervention; school-based interventions (3 credits); course work in Psychological Foundations including human development(3 credits), history of psychology(3 credits), biological basis of behavior (3 credits), social basis of behavior (3 credits)and cognitive bases of behavior and psychopathology (3 credits). Research coursework includes: statistics (3 credits). A two-term integrated field practicum is completed in year two (6 credits) in addition to the intensive school-based practicum/internship in year three (9 credits). MEd students participate in a graduating seminar (3 credits) that brings together their goals and objectives as well as their accomplishments and experiences throughout the program in the development of a professional portfolio. For B.C. teachers: Teacher Qualification Service requires a capstone experience met in this program with the development of a professional portfolio. **Contact Information:** Department of Educational and Counselling Psychology, and Special Education 2125 Main Mall Vancouver, BC V6T 1Z4 Tel: 604-822-5351 Fax: 604-822-3302 Email: derek.gagnier@ubc.ca	three years of full time study, including both on-campus courses and school-based practicum/internship experiences. Students are required to complete a sequence in School Psychology Practice including course work in professional, ethical and legal issues in school psychology (3 credits); consultation (6 credits); and cognitive (3 credits), academic (6 credits), and social-emotional (3 credits) assessment and intervention; school-based interventions (3 credits); course work in Psychological Foundations including human development, history of psychology, biological, social and cognitive bases of behavior and psychopathology (3 credits each). Research coursework includes: statistics (3 credits). A two-term integrated field practicum is completed in year two (6 credits) in addition to the intensive school-based practicum/internship in year three (9 credits). MEd students participate in a graduating seminar (3 credits) that brings together their goals and objectives as well as their accomplishments and experiences throughout the program in the development of a professional portfolio. For B.C. teachers: Teacher Qualification Service requires a capstone experience met in this program with the development of a professional portfolio. **Contact Information:** Department of Educational and Counselling Psychology, and Special Education 2125 Main Mall Vancouver, BC V6T 1Z4 Tel: 604-822-5351 Fax: 604-822-3302 Email: derek.gagnier@ubc.ca

Web: www.ecps.educ.ubc.ca Derek Gagnier, Graduate Secretary	Web: www.ecps.educ.ubc.ca Derek Gagnier, Graduate Secretary **Type of Action**: Change in program requirements: Remove 6 credit Doctoral seminar identified as EPSE 601a and EPSE 601b from PhD program requirements, Correct number of credits required for MA program (should be 66). Add the name of new faculty member to the list of program faculty. **Rationale:** EPSE 601a and EPSE 601b were departmental requirements for students in 4 of 5 program areas in the department. This requirement was recently dropped at the department level. The SCPS program currently requires two doctoral seminars (School Systems and Community Systems) for all students in addition to a sequence in doctoral research. Given the length of the program, the two required seminars and the removal of EPSE 601a & EPSE 601b as a department requirement, the SCPS program wants to remove these two as required courses. **ID Number for All Supporting Documents:** **Faculty Approval Date:** June 20, 2006

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Social Work and Family Studies** **Degrees Offered: Ph.D.** ***Members*** **Professors** A. Martin-Matthews, D. Perlman, G. Riches, M. Russell, J. White. **Associate Professors** P. Johnson, E. Kruk, P. McNicoll, O'Connor, B. O'Neill, J. Ponzetti, T. Stainton, R. Sullivan, F. Tester, R. Vedan. **Assistant Professors** S. Cadell, G. Charles, S. Marshall, P. Riano-Alcala, M. Wright, M. C. Yan, C. Yodanis. ***Program Overview*** The Ph.D. Program in Social Work and Family Studies provides students with a background in social work, social policy, social development or family studies, an opportunity for advanced scholarship and professional growth in the context of a research-intensive program. Specializing in either Social Work or Family Studies, students are prepared for university teaching and research (theoretical and applied), including program evaluation. The program can also provide critical components for professional practice in research, policy analysis and human service management.	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,300 **Present Calendar Entry:** **Degrees Offered** *M.S.W., Ph.D.* **Master of Social Work** The School of Social Work and Family Studies offers advanced studies in social work. The Master of Social Work program (M.S.W.) requires the completion of 33 credits, with a minimum of six credits to be completed in each of the following areas: theoretical foundations and policy, social work practice, research, and elective course work. Students can choose between a graduating essay or a thesis. The graduating essay option is for those students intending to specialize in direct social work practice, with an emphasis on the integration of theory and practice. The graduating essay is 3 credits and a 6 credit practicum is required. Students selecting the thesis option intend to carry out an in-depth research study of an original nature. The thesis is worth 6 credits and students choosing this option are required to complete a shorter practicum worth 3 credits. Specialized areas of study include child and family services, services for women, culturally specific services, and social and community development. Students may also take courses outside the School to a maximum of 12 credits to meet their learning objectives. General admission requirements include a Bachelor of Social Work (B.S.W.) degree or equivalent and at least 3 credits of courses work in statistics. Other factors considered are: competitive academic standing (GPA), Study Plan, professional social work experience, and letters of reference.

Via their program of work, students are expected to acquire a basic grounding in the core theoretical paradigms relevant to their course of study and quantitative and qualitative research methods, as well as specialized competencies in the methodological skills necessary for productive scholarship in the substantive area of their chosen research. A research-based dissertation adding to the field's knowledge base is the capstone of this program.

Following the comprehensive examination, the student will present a formal thesis proposal for approval by the candidate's committee before proceeding to the research that will culminate in a formal thesis defense. The major requirement of the Ph.D. is completion of a research thesis reporting significant and original scientific research.

For information on Master's programs, please see the listings under {I|1234|Family Studies} and {I|1234|Social Work}.

Doctor of Philosophy

Admission Requirements

A master's degree in Social Work or Family Studies, or other related fields of study are normally required for admission. . **Entering students are expected to have 3-unit graduate level courses in statistics, quantitative methods and qualitative methods; however, one methods course can be made up in year one. Transfer from the master's to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.**

Program Requirements

Students entering the Ph.D. program will be required to spend a minimum of two terms of uninterrupted duration (8 months) in full-time status at the University. Students in the program will be expected to take at least 15 units of coursework including:

• SWFS 601: Social Work and Family Studies Doctoral Seminar
• SWFS 621: Social Theory, Ideology and Ethics
• A 3-credit substantive course selected with

Completion of the program normally requires a minimum of twelve months of full-time studies, beginning in September. Part-time study consisting of a minimum of three years is available. The School, in collaboration with the University Colleges of the Cariboo and Okanagan, offers an off-campus Master of Social Work. **Applications are not currently accepted for this program.**

The School also participates in a doctoral program of Individual Interdisciplinary Studies, offered by the Faculty of Graduate Studies. Acceptance is contingent upon excellent academic performance and the development of an interdisciplinary research proposal acceptable to the Faculty of Graduate Studies. Students holding a Master of Social Work typically require undergraduate and advanced courses in other disciplines in order to prepare such a proposal.

PhD Program in Social Work and Family Studies

with specialization in either Social Work or Family Studies

The Ph.D. Program in Social Work and Family Studies provides students with a background in social work, social policy, social development or family studies, opportunities for advanced scholarship and professional growth in the context of a research-intensive program. It prepares students for university teaching and research, including program evaluation, and provides a critical component for policy analysis and human service management. Students are expected to take course work in relevant theory, methods (quantitative & qualitative) and a doctoral seminar. Via their program of work, students are expected to acquire a basic grounding in the core theoretical paradigms relevant to their course of study, in quantitative and qualitative research methods as well as specialized competencies in the methodological skills necessary for productive scholarship in the substantive area of their chosen research. A research-based dissertation adding to the field's knowledge base is the capstone of this program.

A master's degree in Social Work or Family Studies, or other related fields of study are normally required for admission. Although deficiencies can be made up, entering students are expected to have 3-unit graduate level courses in statistics, quantitative methods and qualitative methods. Students entering the Ph.D. program will be required to spend a minimum of two terms of uninterrupted duration (8 months)

Advisory Committee's approval and;
• Two of the Following Three Courses 1
1) SWFS 623: Advanced Data Analysis in Social Work and Family Studies
2)SWFS 654: Advanced Qualitative Inquiry
3) EPSE 591: Theory and Practice of Program Evaluation.
Students may substitute one methods course with the approval of the Doctoral Program Coordinator.

Appropriate coursework will be selected in consultation with the student's supervisory committee and will depend on the student's background and field of study. All students are expected to be admitted to candidacy within two years of initial registration. To do this, students must:
1) complete their residency and all required courses
2) pass their comprehensive examinations
3) have their dissertation proposal approved.

All doctoral students are required to successfully complete a comprehensive examination. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Contact Information:

The School of Social Work and Family Studies
2080 West Mall
Vancouver, BC V6T 1Z2

Tel: 604-822-2609
Fax: 604-822-8656
Email: socialwork.familystudies@ubc.ca
Web: www.swfs.ubc.ca

Rosemary Usher, Program Advisor, Marjorie Paukner, Admissions Secretary

in full-time status at the University. Students in the program will be expected to take at least 15 units of course including:

- SWFS 601: Social Work and Family Studies Doctoral Seminar
- SWFS 621: Social Theory, Ideology and Ethics
- A 3-credit substantive course selected with Advisory Committee's approval and;
  Two of the Following Three Courses[1]
- SWFS 623: Advanced Data Analysis in Social Work and Family Studies
- SWFS 654: Advanced Qualitative Inquiry
- EPSE 591: Theory and Practice of Program Evaluation.

[1]Students may substitute one methods course with the approval of the Doctoral Program coordinator.

Appropriate coursework will be selected in consultation with the candidate's committee and will depend on the student's background and field of study. All students are expected to be admitted to candidacy within two years of initial registration. To do this, students must:

1. complete their residency and all required courses
2. pass their comprehensive examinations
3. have their dissertation proposal approved.

Following the comprehensive examination, the student will present a formal thesis proposal for approval by the candidate's committee before proceeding to the research that will culminate in a formal thesis defense. The major requirement of the Ph.D. is completion of a research thesis reporting significant and original scientific research.

Contact Information

The School of Social Work and Family Studies
2080 West Mall
Vancouver, BC V6T 1Z2
Tel: 604-822-2609
Fax: 604-822-8656
Email: **SocialWork.FamilyStudies@ubc.ca**
Website: **www.swfs.ubc.ca**

	Ms. Rosemary Usher, Student Advisor **Ms. Marjorie Paukner**, Admissions Secretary **Type of Action:** Edit Calendar entry. **Rationale:** The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

\UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Sociology** **Degrees Offered: Ph.D. M.A.** ***Members*** **Professors** G. Creese, D. Currie, B. Elliott, N. Guppy, G. E. Johnson, D. R. Matthews. **Associate Professors** T. Kemple, B. Ross, D. Tindall, J. Torpey. **Assistant Professors** S. Fuller, A. Hanser, R. Mawani, G. Veenstra, R. Wilkes, D. Zuberi. ***Program Overview*** Studies in the M.A. and Ph.D. programs in Sociology are available in the following core areas of study: Social And Cultural Theory and Methods; Gender, Race, Class and Sexuality; Environment, Economy and Development; and Politics, Law and Social Movements. Research facilities in Sociology include social survey and small groups laboratories. There is ready access to the Department's Graduate Computer Lab and Graduate Reading Room. Graduate students may participate in courses and services provided by Arts ISIT, the Faculty of Arts Instructional Support and Information Technology unit.	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,301 **Present Calendar Entry:** **Degrees Offered** *M.A.* *Ph.D.* **Master of Arts and Doctor of Philosophy** Studies in the M.A. and Ph.D. programs in Sociology are normally available in the following core areas of study: Social And Cultural Theory and Methods; Gender, Race, Class and Sexuality; Environment, Economy and Development; and Politics, Law and Social Movements. The M.A. program, which is available to both full-time and part-time students, requires courses which include sociological theory and research methods. A 6- or 12-credit thesis option offers a unique opportunity for variation in graduate work. Exceptional M.A. candidates may seek transfer to the Ph.D. program after the first year of graduate work has been completed. The prerequisite for the Ph.D. program normally is a Master's degree in Sociology, which includes preparation in sociological theory and in research methods. The Ph.D. program includes courses, comprehensive examinations, and a dissertation. Research facilities in Sociology include social survey and small groups laboratories. There is ready access to the Department's Graduate Computer Lab and Graduate Reading Room. Graduate students may participate in courses and services provided by Arts ISIT, the Faculty of Arts Instructional Support and Information Technology unit. UBC is also the western regional site of the Statistics Canada Data

UBC is also the western regional site of the Statistics Canada Data Information Centre. Students may also participate in specialized programs and facilities provided by the Asian Studies Centre, and many other UBC centres and institutes.

For graduate programs in Anthropology, see {I|11090|Anthropology}.

Doctor of Philosophy

Admission Requirements

The prerequisite for the Ph.D. program normally is a Master's degree in Sociology, which includes preparation in sociological theory and in research methods. Exceptional M.A. students may seek transfer to the Ph.D. program after the first year of graduate work, provided the student meets the regulations set by the Faculty of Graduate Studies and follows procedures set out by the Sociology Graduate Studies Committee.

Program Requirements

Appropriate coursework may be selected in consultation with the student's supervisory committee. All doctoral students are required to complete two comprehensive examinations successfully. The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Arts

Admission Requirements

Students admitted to the M.A. degree program must possess a B.A. degree in Sociology or a related area, and must meet the general admission requirements for Master's degree programs set by the Faculty of Graduate Studies.

Program Requirements

The M.A. program, which is available to both full-time and part-time students, requires courses which include sociological theory and research methods. Students must complete 30 credits of work that includes either a 6-credit or 12-credit thesis.

Information Centre. Students may also participate in specialized programs and facilities provided by the Asian Studies Centre, and many other UBC centres and institutes.

For graduate programs in Anthropology, see ***Anthropology***.

Contact Information

Department of Anthropology and Sociology
6303 NW Marine Drive
Vancouver, BC V6T 1Z1
Tel: 604-822-5421
Fax: 604-822-6161
Email: **ansograd@interchange.ubc.ca**
Website: **www.anso.ubc.ca**

Ms. Anna Jubilo, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

Contact Information:

Department of Anthropology and Sociology
6303 NW Marine Drive
Vancouver, BC V6T 1Z1

Tel: 604-822-5421
Fax: 604-822-6161
Email: ansograd@interchange.ubc.ca
Web: www.anso.ubc.ca

Dan Naidu, Graduate Secretary

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Software Systems** **Degrees Offered: M.S.S.** ***Members*** **Professors** None **Associate Professors** P. Nasiopoulos, S. Vuong. **Assistant Professors** None ***Program Overview*** The Master of Software Systems program is offered by the Institute of Computing, Information and Cognitive Systems (ICICS) in collaboration with the Departments of Computer Science and Electrical and Computer Engineering. The program is designed to be of interest to graduates in engineering disciplines, mathematics, or the physical sciences, but other applicants with the necessary technical background or work experience may be accepted on approval by the Program Director and the Faculty of Graduate Studies. Students with degrees in Computer Science or Computer Engineering are not eligible to apply. This program draws instructors from various Organizations: UBC, Langara College and Industry. For complete information please	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,302 **Present Calendar Entry:** **Degrees Offered** *M.S.S.* **Master of Software Systems** The program leading to the Master of Software Systems (M.S.S.) is designed to prepare students with degrees in science or engineering for the specialized area of computer software systems. The duration of the program is 16 months, composed of 30 credits taken in three semesters, as well as a four-month industry internship. The program is offered by the Institute of Computing, Information and Cognitive Systems (ICICS) in collaboration with the Departments of Computer Science and Electrical and Computer Engineering. For more information, see ***Institute for Computing, Information and Cognitive Systems*** in the chapter Research Units, Centres and Institutions. Successful applicants will hold a bachelor's degree and must also have computer program design and data structures knowledge equivalent to that offered in CPSC 216 or CPSC 252. The program is designed to be of interest to graduates in the various engineering disciplines, mathematics, or the physical sciences, but other applicants with the necessary technical background or work experience may be accepted on approval by the program director and the Faculty of Graduate Studies. Students with degrees in computer science or computer engineering are not eligible to apply. Detailed information on program requirements, courses, and financial assistance is available from the program office on request.

refer to the program {H|www.icics.ubc.ca/mss|website}.

Master of Software Systems

Admission Requirements

Successful applicants must hold a bachelor's degree (in subjects other than Computer Science or Computer Engineering) and must meet the general admission requirements for Master's degree programs set by the Faculty of Graduate Studies. Students must also have computer program design and data structures knowledge equivalent to that offered in CPSC 216 or CPSC 252.

Program Requirements

The Master of Software Systems is a 16-month program, composed of 30 credits taken in three terms (24 credits in six core courses and 6 credits of elective courses), as well as a four-month industry internship. The program provides an opportunity to expand a student's existing skills and develop them for a career in a software systems environment.

For detailed requirements, please refer to the program {H|www.icics.ubc.ca/mss|website}.

Contact Information:

Master of Software Systems, ICICS
289 - 2366 Main Mall
Vancouver, BC V6T 1Z4

Tel: 604-822-8807
Fax: 604-822-9013
Email: info@mss.icics.ubc.ca
Web: www.icics.ubc.ca/mss

Gail Schmidt, Program Assistant

Contact Information

Master of Software Systems
2366 Main Mall
Vancouver, BC V6T 1Z4
Tel: 604-822-8807
Fax: 604-822-9013
Email: **gradsec@mss.icics.ubc.ca**
Website: **www.icics.ubc.ca/mss**

Gayle Schmidt, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Statistics** **Degrees Offered: Ph.D. M.Sc.** ***Members*** **Professors** R. Brant, N. E. Heckman, P. A. Gustafson,H. S. W. Joe, A. J. Petkau, W. J. Welch, R. H. Zamar, J. V. Zidek. **Associate Professors** B. Clarke, A. Doucet, L. Wu. **Assistant Professors** J. Bryan, R Gottardo, K. Murphy, M. Salibian-Barrera, ***Program Overview*** The program leading to the Master of Science is designed to prepare students for employment in government and industry or to serve as preparation for students planning to undertake a program leading to the Doctor of Philosophy. The studies leading to the Ph.D. are designed to equip students to carry out research, with a view toward a career in academia, industry or government. Research interests of the faculty include biostatistics, environmetrics, mathematical modelling of biological systems, computational statistics, data mining, machine learning, theory of statistical inference, asymptotics, multivariate analysis, robustness,	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,305 **Present Calendar Entry:** **Degrees Offered** *M.Sc.* *Ph.D.* **Master of Science and Doctor of Philosophy** The program leading to the Master of Science is designed to prepare the student for employment in government and industry or to serve as preparation for students planning to undertake a program leading to the Doctor of Philosophy. The studies leading to the Ph.D. are designed to equip the student to carry out research, with a view toward a career in academia, industry or government. Research interests of the faculty include medical statistics and clinical trials, mathematical modelling of biological systems, theory of statistical inference, asymptotics, multivariate analysis, robustness, nonparametrics, design of experiments, smoothing, Bayesian methods, computational molecular biology, gene expression, microarrays, time series, and mixtures of distributions. **Master of Science Co-operative Education Option** Co-operative education integrates academic study with related and supervised work experience in co-operating employer organizations. Students admitted to the Master of Science program in Statistics may apply for admission to a Co-operative Education Option that may be

nonparametrics, design of experiments, smoothing, Bayesian methods, computational molecular biology, gene expression, and microarrays.

Doctor of Philosophy

Admission Requirements

Students admitted to the Ph.D. degree program normally possess a master's degree in Statistics or a related area, with clear evidence of research ability or potential. Transfer from the M.Sc. to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies.

Program Requirements

Appropriate coursework may be selected in consultation with the student's supervisory committee. All doctoral students are required to successfully complete a comprehensive examination . The major requirement for the Ph.D. is completion of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science

Admission Requirements

Students admitted to the M.Sc. degree program normally possess a bachelor's degree in Statistics or a related area, and must meet the general admission requirements for master's degree programs set by the Faculty of Graduate Studies.

Program Requirements

There are three options for the Master of Science:

Thesis Option: This option requires 24 credits of course work (6 credits at the 300-level or above and 18 credits at the 500-level or above) and a 6-credit thesis.

Project Option: This option requires 27 credits of course work (6 credits at the 300-level or above and 18 credits at the 500-level or above) and a 3-credit project.

Co-operative Education Option: A Co-operative Education Option is available for graduate students in Statistics. The Program is intended to help prepare interested and qualified students for careers in statistics and involves 8 months of work placement supervised by practicing professionals. course- project- or thesis-based. The program helps prepare interested and qualified students for professional careers in government and industry with eight months of work placement supervised by practising professionals. Faculty advisors also visit students at their place of work where feasible and provide advice on technical reports required of all students in the program.

Students who have been admitted into the Master of Science program in Statistics and who are seeking admission to the Co-Op Option must apply to the Science Co-Op Office before December 1 in their first term at UBC. Selection of students will be based on academic performance and general suitability to the work environment as determined by résumé and interview. The total enrolment will be subject to the availability of appropriate work placements and faculty advisors. The work placements are arranged by mutual agreement between students and employing organizations. Participating students register for STAT 598 (in the summer term following their first two terms at UBC) and STAT 599 (in Term 1 of their second year at UBC) in addition to the courses needed to meet normal academic requirements. Satisfactory completion of these courses, which do not carry academic credit, will be noted on a student's academic record. Students choosing the M.Sc. thesis option will require an additional term (their second summer term at UBC) to complete their degree requirements.

For more information on the Co-operative Education Option, contact the Department of Statistics (see address below) or the Co-operative Education Program Office, Room 170, Chemistry/Physics Building 6221 University Blvd, Vancouver, B.C. V6T 1Z1; fax 604-822-9676. Information is also available through the **Co-op website**.

Contact Information

Student Services, Department of Statistics
333-6356 Agricultural Road
Vancouver, BC V6T 1Z2
Tel: 604-822-4821
Fax: 604-822-6960
Email: **christin@stat.ubc.ca**
Website: **www.stat.ubc.ca**

Ms. Christine Graham, Graduate Secretary

Type of Action:
Edit Calendar entry.

Rationale:

Faculty advisors also visit students at their place of work and provide advice on technical reports required of all students in the Program. This option requires 36 credits. Students complete 30 credits of coursework (6 credits at the 300-level or above and 24 credits at the 500-level or above). Students in this option register for STAT 598 and 599 during their co-operative work placement. Citizenship status is NOT a requirement for the co-op option. A detailed description of the program, placements and academic requirements are available on the website www.stat.ubc.ca/education/grad.new/details_coop.html. ***Contact Information:*** Department of Statistics 333-6356 Agricultural Road Vancouver, BC V6T 1Z2 **Tel:** 604-822-4821 **Fax:** 604-822-6960 **Email:** christin@stat.ubc.ca **Web:** www.stat.ubc.ca **Christine Graham**, Student Services Co-ordinator	The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Vocational Rehabilitation Counselling** **Degrees Offered: M.A.** ***Members*** **Professors** n/a **Associate Professors** I. Schultz. **Assistant Professors** n/a ***Program Overview*** UBC has developed a state-of-the-art professionally-oriented program in Vocational Rehabilitation Counselling which follows the scientist-practitioner training model and prepares students for independent practice in a wide spectrum of vocational rehabilitation service areas such as vocational assessment, vocational individual and group intervention, adjustment and rehabilitative counselling, job development and placement, return-to-work planning, case and disability management, and research and program evaluation. Supervised clinical experience in a Vocational Rehabilitation setting as well as coursework on psychosocial and medical aspects of disability are included in the curriculum. The program is responsive to the needs of Canadian vocational rehabilitation	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,678 **Present Calendar Entry:** **Degrees Offered** *M.A.* **Master of Arts** A program leading to the Master of Arts in Vocational Rehabilitation Counselling is available. Students may follow either of two options: 1. 56 credits in courses and practical work including a graduating project, or 2. 53 credits in courses and practical work, and a 6- to 12-credit thesis. Both programs have been designed to permit full-time students to complete course work in 16 months. Thesis completion may extend this time period. Part-time studies are also available. The program is broad and covers topics of relevance to the professional vocational rehabilitation counsellor such as vocational assessment of persons with disabilities, job placement, disability case management, counselling theory, and medical aspects of disability. A full description of the program is available from the Department of Educational and Counselling Psychology and Special Education. The applicant must have an undergraduate degree, preferably with a concentration in related areas such as psychology, occupational therapy, social work, special education human resources management, or nursing and a standing acceptable to the Faculty of Graduate Studies. The applicant will normally be required to have work experience, either paid or volunteer. Letters of reference attesting to the

professionals and provides a uniquely Canadian perspective on vocational rehabilitation counselling and the environment where it is delivered.

The curriculum has been developed in accordance with future program accreditation requirements, and prepares graduates for licensing by respective licensing bodies for vocational rehabilitation professionals.

The program normally admits students every three years. Please check with the program to see if applications are being accepted for the upcoming academic year.

Master of Arts

Admission Requirements

The applicant must have an undergraduate degree, preferably with a concentration in related areas such as psychology, occupational therapy, social work, special education human resources management, or nursing and meeting the minimum requirements set by the Faculty of Graduate Studies. The applicant will normally be required to have work experience, either paid or volunteer. Letters of reference attesting to the applicant's personal suitability for the field will be required.

Program Requirements

The program is broad and covers topics of relevance to the professional vocational rehabilitation counsellor such as vocational assessment of persons with disabilities, job placement, disability case management, counselling theory, and medical aspects of disability.

It is a 48 credits program including 15 credits of courses in Rehabilitation & Vocational Counselling, 9 to 12 credits of courses in Assessment (depending on the student's background), 18 credits of courses in Counselling and six credits of courses in Research Methodology. A supervised clinical experience in the vocational rehabilitation setting as well as coursework on psychosocial and medical aspects of disability are included in the curriculum.

The program is offered on a part time basis, to accommodate students currently working in the field, with classes arranged for late afternoon (16:30 - 19:00) and additional spring and summer offerings.

applicant's personal suitability for the field will be required. Prospective students are encouraged to contact the program coordinator to discuss their individual situations.

Contact Information

Department of Educational and Counselling Psychology, and Special Education
2nd Floor, Library Block
2125 Main Mall
Vancouver, BC V6T 1Z4
Tel: 604 822-5259
Fax: 604 822-2328
Email: **karen.yan@ubc.ca**
Website: **www.ecps.educ.ubc.ca**

Ms. Karen Yan, Graduate Secretary

Type of Action:

Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

Contact Information: Department of Educational and Counselling Psychology, and Special Education 2125 Main Mall Vancouver, BC V6Z 1T4 **Tel:** 604-822-5351 **Fax:** 604-822-3302 **Email:** ecps.gradinfo@ubc.ca **Web:** www.ecps.educ.ubc.ca/grad_programs/vrc.html **Karen Yan**, Graduate Program Assistant	

THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form
Change to Course or Program

Category: (2)

Faculty: **Department:** **Faculty Approval Date:** **Effective Session ____ Term ___** **Year___ for Change**	**Date:** **Contact Person: Joyce Tom** **Phone:** **Email:**
Proposed Calendar Entry: **Zoology** **Degrees Offered: Ph.D.** **M.Sc.** ***Members*** **Professors** M. Adamson, J. D. Berger, R. W. Blake, H. W. Brock, A.P. Farrell, J. M. Gosline, T. A. Grigliatti, D. R. Jones, W. Maddison, W. K. Milsom, D. G. Moerman, J. Myers, D. Pauly, A. Pitcher, D. Schluter, R. Shadwick, A. R. E. Sinclair, J. N. M. Smith, T. P. Snutch, J. D. Steeves, W. Tetzlaff, C. J. Walters. **Associate Professors** V. Auld, L. Aviles, M. Doebeli, L. Matsuuchi, S. P. Otto, N. Pante, R. J. Redfield, A. J. Roskams, E. B. Taylor, M. Whitlock. **Assistant Professors** N. Abraham, C. Brauner, D. Irwin, B. Leander, M. Ramer, J. Richards, P. Schulte, J. Shurin, D. Srivastava, M. Velland. ***Program Overview*** Zoology encompasses over 50 principal investigators. Research interests of faculty members can be divided into several broad categories with substantial overlap of interest and collaboration among these arbitrary groups. The program vigorously promotes integrative research in biology and actively participates in several	**URL:** http://students.ubc.ca/calendar/index.cfm?tree=12,204,349,311 **Present Calendar Entry:** **Degrees Offered** *M.Sc.* *Ph.D.* **Master of Science and Doctor of Philosophy** The Department of Zoology encompasses over 50 principal investigators. Research interests of Department members can be divided into several broad categories with substantial overlap of interest and collaboration among these arbitrary groups. The Department vigorously promotes integrative research in biology and actively participates in several interdisciplinary programs, including the graduate programs in genetics, neuroscience, applied mathematics, and resource management. The Department offers a wide variety of research programs leading to the Master of Science and Doctor of Philosophy in the following areas: Cell and Developmental Biology, Community and Population Ecology, Comparative Physiology and Biochemistry, Neurobiology and Evolutionary Biology. In addition the Department of Zoology is actively involved in several interdisciplinary programs of instruction and research including: ▪ **Fisheries Centre** ▪ **Centre for Biodiversity Research** ▪ **Centre for Applied Conservation Research** (CACR), Faculty of Forestry

interdisciplinary programs, including the graduate programs in genetics, neuroscience, applied mathematics, and resource management.

Zoology offers a wide variety of research programs leading to the Master of Science and Doctor of Philosophy in the following areas: Cell and Developmental Biology, Community and Population Ecology, Comparative Physiology and Biochemistry, Neurobiology, and Evolutionary Biology.

In addition Zoology is actively involved in several interdisciplinary programs of instruction and research including:

• Fisheries Centre
• Centre for Biodiversity Research
• Centre for Applied Conservation Research (CACR), Faculty of Forestry
• Genetics Program
• ICORD (International Collaboration on Repair Discoveries)
• Institute of Applied Mathematics
• BC Cancer Research Centre

Doctor of Philosophy

Admission Requirements

Students admitted to the Ph.D. degree program normally possess a M.Sc. degree in Zoology or a related area, with clear evidence of research ability or potential. Transfer from the M.Sc. to the Ph.D. program is permitted under regulations set by the Faculty of Graduate Studies. Exceptional students may be admitted directly to the Ph.D. program from the bachelor's level.

Program Requirements

Original research supervised by a faculty member constitutes the major component of work toward the Ph.D. degree. Most Ph.D. students are not required to complete course work unless it is recommended by the thesis committee, or as a condition of admission. All Ph.D. students are required to present a research proposal and pass a comprehensive examination on their research area within l8 months of registering in the Program. The comprehensive exam is an oral examination (typically with five or six examiners) intended to assess the student's breadth of knowledge in the general subject area(s) of the proposed research (i.e., it is not a defense of the written proposal).

The major requirement for the Ph.D. is completion

- **Genetics Program**
- **ICORD** (International Collaboration on Repair Discoveries)
- **Institute of Applied Mathematics**
- **BC Cancer Research Centre**

Contact Information

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Tel: 604-822-5807
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Website: **www.zoology.ubc.ca**

Ms. Allison Barnes, Graduate Secretary

Type of Action:
Edit Calendar entry.

Rationale:

The Faculty of Graduate Studies is making an effort to have calendar entries consistent, effective, efficient and equitable for all graduate programs. A number of programs have large amount of information while others have barely any information. We are trying to have all calendar entries consistent in length without leaving out any pertinent information.

of a research thesis meeting the Faculty of Graduate Studies requirements.

Master of Science

Admission Requirements

Students admitted to the M.Sc. degree program normally possess a bachelor's degree in Biological Sciences or a related area, and must meet the general admission requirements for master's degree programs set by the Faculty of Graduate Studies.

Program Requirements

The M.Sc. degree requires a combination of coursework and research for a total of 30 credits. Twelve credits of courses are required with the remaining 18 credits being thesis research. Single courses typically range from 3-6 credits each. Students have considerable flexibility in their choice of courses including graduate and up to 6 credits of senior undergraduate courses in Zoology, Botany, Microbiology, Genetics, Forestry, Conservation, and Earth and Oceans Sciences, as well as several other departments. Students may also design their own courses in the form of "Directed Studies" supervised by a faculty member.

Although research conceived independently of the student's supervisor is encouraged, the minimum requirement for the M.Sc. degree is to successfully complete directed research. The M.Sc. is a 2-year program, but due to the nature of the research undertaken many students take longer.

Contact Information:

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Allison Barnes, Graduate Secretary

The University of British Columbia
Faculty of Applied Science
5000 – 2332 Main Mall
Vancouver, B.C. V6T 1Z4

MEMORANDUM

To: Peter Marshall, Chair
Senate Curriculum Committee

cc: Chris Eaton
Senate Secretariat

From: Michael Isaacson, Dean
Faculty of Applied Science

Tel: 2-6412, fax: 2-7006
e-mail: isaacson@apsc.ubc.ca

November 29, 2006

RE: PROPOSAL FOR A JOINT DEGREE PROGRAM BETWEEN UBC AND NUS IN MECHATRONICS DESIGN

I hereby submit a revised proposal for a joint degree program between the University of British Columbia and the National University of Singapore in Mechatronics Design. The required forms have been completed as attached, and this covering memorandum is intended to provide your Committee with necessary additional information. I am writing to request your Committee's endorsement of the proposal set out below and your transmittal of the corresponding recommendation to Senate for its approval. I would be pleased to meet with your committee, or otherwise to respond to or modify the proposal if you feel that this is needed.

Please note that I am sending a companion proposal to the Academic Policy Committee, as reproduced in Appendix III, for its consideration and approval in the context of the proposal's joint degree program aspects, particularly with respect to its degree and parchment requirements. However, I have not sent the proposal to the Senate Admissions Committee, since the admissions criteria will not be changed from those currently in force at UBC, and will be entirely consistent with the primary stream of this degree program that has already been approved and that is taken by UBC students. If you feel it necessary, I would be grateful if you would forward this proposal to that Committee for its endorsement as well.

I would very much appreciate a timely consideration of this matter, since we wish to promote this activity very quickly in advance of student admissions in September 2007. Thank you for considering this.

PROPOSAL

I am requesting the transmittal of the following recommendation to Senate:

> *That Senate approves the joint degree program in Mechatronics Design to be offered by the Faculty of Applied Science at the University of British Columbia and the Faculty of Engineering at the National University of Singapore.*

INTRODUCTION

In support of the University's vision of preparing its students to become exceptional global citizens, the Faculty of Applied Science is seeking approaches to enhancing its collaborations with prestigious universities overseas and to providing its students with increased international experiences. One such approach that has been developed is a close collaboration with the National University of Singapore (NUS) in the area of Mechatronics Design. This is a joint degree program, whereby both universities will collaborate closely and will both be engaged in the governance and delivery of this degree program.

The Faculty of Applied Science already offers the Master of Engineering in Mechatronics Design. Likewise, the Faculty of Engineering at NUS already offers an equivalent degree, the Master of Science in Mechatronics Design. The proposed joint degree program corresponds to an alternative to these two single-university degrees, one that entails a high level of collaboration and significant international experiences.

SUMMARY OF PROPOSED PROGRAM

The Faculty of Applied Science at UBC currently offers the degree of Master of Engineering in Mechatronics Design. The Faculty of Engineering at NUS currently offers the degree of Master of Science in Mechatronics Design. This degree corresponds very closely to the MEng degree at UBC.

The proposed joint program will lead to the same two degrees indicated above. However, it will offer a different stream - designated an "international stream" - for each of the above two single-university degrees. The international streams of both degrees have been designed so as to be totally coincident with each other, to fall under the academic governance of a joint Board of Study, and to conform fully to existing Senate-approved academic requirements for each of the two degrees.

For this program, all students are required to complete a minimum of 12 credits of course-work at UBC, typically over one term, and a minimum of 12 credits of course-work at NUS, typically over one term. In addition, all students are required to complete a 6-credit collaborative project course at either UBC or NUS, typically involving an industry sponsor and co-supervisors from both universities. The detailed course-work requirements of this program are indicated in the Appendix.

It should be emphasized that the existing Master of Engineering degree at UBC already has sufficient flexibility to enable the relevant courses at NUS to be taken without the further approval of Senate. Therefore, since there will be no changes to previously approved requirements relating to admissions, curriculum and degree completion, this proposal may be viewed as meeting already all Senate-approved requirements. Nevertheless, because of fairly unique degree and parchment designation requirements, the proposal is being submitted to the Curriculum Committee as if it was a new degree program.

Degree and Parchment Designations

As background, it is important to highlight the degree and parchment designation requirements that are under the consideration of the Academic Policy Committee. Even though this proposal relates to a joint degree program, because of constraints associated with the implication of degree names at the two institutions, this joint degree program will in fact lead to different degrees for each of two cohorts of students. The degrees are non-research, course-based professional degrees in engineering. However, the UBC name for such a degree, Master of Engineering, cannot be used at NUS for a non-research, professional degree. Likewise, the NUS name for such a degree, Master of Science, cannot be used at UBC for a non-research, professional degree. To avoid this impasse, the two Faculties have agreed to collaborate on this joint degree program, with the intent that it will lead to different degree designations

and parchments for the two cohorts of students. One cohort of students, for which UBC will be designated the home institution, will be awarded the UBC Master of Engineering degree, with a degree parchment that carries the crests of both universities. The other cohort of students, for which NUS will be designated the home institution, will be awarded the NUS Master of Science degree, with a degree parchment that carries the crests of both universities.

ACADEMIC GOVERNANCE

The program will by administered by a Board of Study with representatives from both institutions and reporting to the relevant Deans at both institutions. The Board is co-chaired by the Program Directors at each University and has UBC and NUS representatives who are faculty members appointed by their respective Deans.

The Board of Study is responsible for approving student admissions, the introduction and approval of curriculum changes, the industry project, and the completion of graduation requirements. That is, the Board of Study will ensure that the admissions, curriculum and program completion requirements of each institution are upheld and are equivalent. The Board of Study will approve, among other things, courses taken at NUS towards the UBC degree, and courses taken at UBC towards the NUS degree.

The composition of the Board of Studies and its authority with respect to admissions, curriculum and degree completion requirements, should provide sufficient assurances that the academic standards of both streams of this degree program are equivalent to each other, and as well are equivalent to the single-university streams of the two degrees.

CALENDAR DESCRIPTION

The relevant form providing the current and proposed calendar descriptions has been completed and is attached. As required, this includes an indication of the “Type of Action” and the “Rationale”.

BUDGETARY IMPACT

The relevant form has been completed and it attached. This confirms that there is no budgetary impact of this proposal outside the Faculty of Applied Science.

CONSULTATION

Since this program is delivered entirely within the Faculty of Applied Science, and does not entail any courses taken outside the Faculty of Applied Science, nor any new requirements of the Library, there is no requirement to undertaken consultations within UBC, and hence no consultation forms are attached.

ADMISSIONS

Students will be admitted to the program on the recommendation of the Board of Study based on a single set of admission standards. These admission standards are entirely consistent with both the corresponding UBC-only and NUS-only versions of these degrees. Therefore a separate submission to the Admissions Committee has not been made.

APPENDIX I - COURSEWORK

Note: The definitions of credit at UBC and NUS are different (4 NUS credits is equivalent to 3 UBC credits). Throughout this proposal, all credits are expressed in terms of UBC credits only.

All students are required to complete a minimum of 12 credits of course-work at UBC (typically over one term), and a minimum of 12 credits of course-work at NUS (typically over one term). In addition, all students are required to complete a 6 credit collaborative project course at either UBC or NUS, typically involving an industry sponsor and co-supervisors from both universities.

Details of the relevant NUS course are available at: http://serve.me.nus.edu.sg/mch/courses.html. All these courses have been reviewed carefully by the Faculty of Applied Science, and found to meet UBC's academic standards and so are considered to be fully equivalent to other UBC credit courses that are taken within the Master of Engineering program.

UBC Coursework

Each student must complete at least 12 credits of course-work at UBC. This must include one 3-credit core course, and at least 6 credits taken through constrained elective courses, chosen from the list given below. No more than 3 credits taken through free elective courses – courses outside the list given below, but subject to the approval of the advisor – will be counted towards the required 12-credit minimum.

UBC Core Courses:

MECH 520(3): Control Sensors and Actuators
MECH 521 (3): Mechatronics
EECE 568 (3): Control Systems

UBC Constrained Electives:

EECE 511(3): Topics in Software Engineering
EECE 516(3): Software and Systems
EECE 518(3): Human Interface Technologies
EECE 520(3): Advanced Topics in Computer Networking
EECE 530(3): Robust Multivariable Control
EECE 540(3): Linear and Nonlinear Multivariable Predictive Control
EECE 549(3): Dynamic Modeling of Electrical Machines and Control
EECE 550(3): Topics in Power Electronic Design
EECE 556(3): Optimum Filtering and Control
EECE 560(3): Network Analysis and Simulation
EECE 561(3): Alternative Energy
EECE 563(3): Wireless Communication
EECE 564(3): Detection and Estimation of Signals in Noise
EECE 566(3): Communication and Information Theory
EECE 570(3): Advanced Industrial Process Control
EECE 574(3): Self-Tuning Control
EECE 575(3): Digital Image and Video Processing
EECE 580(3): Emerging Electronic Materials and Devices
EECE 586(3): Wavelets, Principles and Applications in Signal Processing
EECE 588(3): Analog Integrated Circuit design

EECE 589(3): Systems Design for Robots and Teleoperators
EECE 591(3): Applied Digital Signal Processing
EECE 592(3): Architecture for Learning Systems
EECE 598(3): Intelligent Systems Applications to Electrical Power Systems
MECH 505(3): Industrial and Environmental Acoustics and Vibration
MECH 515(3): Finite Element Analysis of Nonlinear and Field Problems
MECH 516(3): Optimal Mechanical Design
MECH 522(3): Modern Control Engineering
MECH 523(3): Intelligent Control
MECH 524(3): Intelligent Robotic Systems
MECH 525(3): Supervisory Control Systems
MECH 526(3): Advanced Industrial Systems Control
MECH 560(3): Experimental Methods in Mechanics
MECH 561(3): Linear Elasticity
MECH 563(3): Robotics: Kinematics, Dynamics, and Control
MECH 569(2/4): Nonlinear Vibration
MECH 587(3): Fracture Control for Design
MECH 588(3): Fatigue
MECH 590(3): Manufacturing Automation
MECH 591(3): Production Engineering
MECH 592(3): Machine Tool Structures and Vibrations
MECH 593(3): Metal Removal Processes
MECH 594(3): Computer Integrated Manufacturing
MECH 595(2): System Modeling and Simulation

NUS Coursework

Each student must complete at least 12 credits of course-work at NUS. This must include one 3-credit core course, and at least 6 credits taken through constrained elective courses, chosen from the list given below. No more than 3 credits taken through free elective courses – courses outside the list given below, but subject to the approval of the advisor – will be counted towards the required 12-credit minimum.

NUS Core Courses:

MCH5001(3): Power Electronics and Applications to Electro-Mechanical Systems
MCH5002(3): Applications of Mechatronics
MCH5003(3): Modeling of Mechatronic Systems

NUS Constrained Electives:

MCH5102(3): Signal Processing in Mechatronics
ME5403/EE5103(3): Computer Control Systems
MCH5104(3): Microprocessor Systems
MCH5106(3): Structures and Properties of Materials
MCH5107(3): Kinematics and Dynamics of Mechanisms
ME5401/EE5101(3): Linear System
ME5404/EE5904(3): Neural Networks
MCH5206(3): Instrumentation and Sensors
MCH5208(3): Precision Handling and Miniaturized Assembly
ME5402/EE5106(3): Advanced Robotics

ME5502(3): Engineering Plastics and Composite Materials
ME5405(3): Machine Vision
ME5606(3): Intelligent Systems in Manufacturing
MCH5212(3): Factory Automation
EE5903(3): Real-Time Systems

Mutually Exclusive Courses:
There are overlaps in topics for some of the courses at NUS and UBC, and therefore students should not take similar courses at the two Universities. The following table shows these courses. Each row shows the courses offered in one of 8 topic areas. Students taking courses in a topic from one university may take companion courses at that university, but cannot take any courses in the same topic at the partner university. For example, with respect to topic 1, a student taking ME5403/EE5103 at NUS may also take ME5401/EE5101 at NUS, but cannot take EECE 568, EECE 530 or EECE 570 at UBC. In other words, the set of courses on a given topic (i.e. in the same row) offered by both universities are mutually exclusive.

Topic	NUS Courses	UBC Courses
1	ME5403/EE5103: Computer Control Systems ME5401/EE5101: Linear Systems	EECE 568: Control Systems EECE 530: Robust Multivariable Control EECE 570: Advanced Industrial Process Control
2	ME5402/EE5106: Advanced Robotics MCH5107: Kinematics and Dynamics of Mechanisms	MECH 563: Robotics: Kinematics, Dynamics, and Control EECE 589: Systems Design for Robots and Teleoperators
3	MCH5206: Instrumentation and Sensors	MECH 520: Control Sensors and Actuators
4	ME5405: Machine Vision	EECE 575: Digital Image and Video Processing
5	MCH5003: Modelling of Mechatronic Systems	MECH 595: System Modelling and Simulation
6	ME5404/EE5904: Neural Networks	MECH 523: Intelligent Control
7	MCH5102: Signal Processing in Mechatronics	EECE 586: Wavelets, Principles and Applications in Signal Processing EECE 591: Applied Digital Signal Processing
8	MCH5001: Power Electronics and Applications to Electro-Mechanical Systems	EECE 550: Topics in Power Electronic Design

Project Course:

After the completion of all other coursework, each student will complete a 6 credit Project Course in Mechatronics. MEng students are required to take a UBC course: APSC 597, MECH 597 or EECE 597; and MSc students are required to take the NUS course: ME5004. All these courses may be completed at either university, or in collaboration with an industry partner, or at a research institution, and will

involve the supervision or co-supervision of a faculty member from the home university regardless of location. Completion of the course will require a written report and an oral presentation of the work. The project will be interdisciplinary, involving different engineering fields. Its purpose is to ensure that the students familiarize themselves at working in a team environment with a focus on applied work in the field of Mechatronics.

Seminar Series:

All students are encouraged to meet weekly through a non-credit program-wide seminar series. Attendance at the seminar series over one term at either UBC or NUS is strongly recommended. As well, students are encouraged to participate in local research conferences and workshops that are relevant to the program.

APPENDIX II – RESPONSE TO COMMENTS OF THE GRADUATE SUB-COMMITTEE OF THE SENATE CURRICULUM COMMITTEE

A) The Committee agrees in principle to the recognition of NUS' involvement in this variant of the UBC MEng degree on a students transcript and parchment (and vice-versa for the NUS degree), provided that the text, a crest, etc is presented to the Committee with a rationale for the proposed forms and means of recognition (See (e) below for a related point). It can then make a recommendation to Academic Policy Committee who will further consider the appropriateness of the degree designation.

The companion submission to the Academic Policy Committee, which provides a general response to this comment, is given in Appendix III. A specific response to this comment, as extracted from Appendix III and elaborated upon further, is as follows:

Transcript

As with exchange students and/or joint degree students, the UBC transcript of MEng students will refer to this joint program and will list the courses taken at NUS as transfer credits in the usual way.

Parchment

The degree parchment for the UBC stream of this program, the MEng in Mechatronics Design conferred by UBC, will carry also the crest of NUS and include the words "… *Senate, upon the recommendation of the Faculty of Applied Science and following completion of the requirements of the joint program in Mechatronics Design at the University of British Columbia and the National University of Singapore, has conferred the degree* of …".

The degree parchment for the NUS stream of this program, the MS in Mechatronics Design conferred by NUS, carry also the crest of UBC and include the words "*having completed the requirements of the joint program in Mechatronics Design at the National University of Singapore and the University of British Columbia*".

Rationale

Even though this is a joint degree program, because of constraints associated with the implication of degree names at the two institutions, this joint degree program will in fact lead to different parchments for each of two cohorts of students. The proposed degree is a non-research, course-based professional degree in engineering. However, the UBC name for such a degree, Master of Engineering, cannot be used at NUS for a non-research, professional degree. Likewise, the NUS name for such a degree, Master of Science, cannot be used at UBC for a non-research, professional degree. To avoid this impasse, the two Faculties have agreed to collaborate on this joint degree program, with the intent that it will lead to different degree designations and parchments for the two cohorts of students.

One cohort of students, for which UBC will be designated the home institution, will be awarded the UBC Master of Engineering degree, with a degree parchment that carries the crests of both universities. The other cohort of students, for which NUS will be designated the home institution, will be awarded the NUS Master of Science degree, with a degree parchment that carries the crests of both universities.

B) The Committee requires further explanation of the table of excluded courses found near the end of the proposal; it was found to be confusing. At that time we can give more comment on the comparability of the proposed program with the current degree program, or at least comment on the extent of match with the expected standard for a UBC degree program.

This table, which is given in Appendix I, has been modified and now includes the required additional explanation. (As well, Appendix I includes additional information on the required Project Course and on the recommended Seminar Series.)

C) The Committee requires assurances that those students who will be conferred the MEng will complete at least 60% of their credits in UBC courses.

Yes, we hereby confirm that those students who will be conferred the MEng will complete at least 60% of their credits through UBC courses.

D) In the implementation of (C), the Committee suggests one solution to consider would be to have UBC MEng students register in the UBC Project course irrespective of where the project is physically taught/completed/adjudicated. We are offering this as one possible way of meeting the expectation for UBC registered students.

Yes, we hereby confirm that students who will be conferred the MEng degree will be registered in the UBC Project course irrespective of where the project is physically taught/complete/adjudicated. Even if the UBC course is undertaken in Singapore, it will be supervised or co-supervised by a UBC faculty member. This clarification is provided in the section “Project Course” that has now been included in Appendix I.

E) The Committee requires more information as to what the academic benefit to students will be in enrolling in this variant, especially but not limited to comparison with the "normal" MEng in Mechatronics, and how this will relate to the recognition referred to in (A).

The companion submission to the Academic Policy Committee, which provides a general response to this comment, is given in Appendix III. A specific response to this comment, as extracted from Appendix III and elaborated upon further, is as follows:

<u>General academic benefit to students</u>

Graduates will benefit from education and training in the focus area of Mechatronics Design, by becoming fully qualified to face the practical and industrial challenges in the field of Mechatronics. Mechatronics is a multidisciplinary field that concerns the integrated modeling, analysis, design, manufacture, and control of smart electromechanical products and systems. The curriculum is designed to emphasize several aspects of professional engineering: engineering science, analysis, design, simulation, testing and industrial practice. Graduates of the program will derive significant academic benefits by possessing outstanding qualifications in this discipline. They will be in very high demand and may be employed in a variety of industry sectors, including transportation, manufacturing and production engineering, biomedical and healthcare technologies, energy, aviation and aerospace, automated office and household technologies, and computer systems. Some may undertake research and development, perhaps leading to doctoral studies.

Academic benefit to students in comparison to those registered in the "normal" MEng

In comparison to the "normal" MEng in Mechatronics Design at UBC, the students in the proposed program will derive additional benefits through global experiences associated with study in another country, consistent with UBC's Trek 2010 vision; through exposure to a wide range of companies and significant industrial and academic collaborations; and through exposure to near equal levels of contribution from each of the two institutions (typically, either 40% or 60%); and finally a qualification that is associated with two of the world's leading universities. (The *Times Higher Education Supplement – QS World University Rankings* for 2006 place NUS 19th and UBC 50th worldwide.)

The program will contribute to a number of aspects of the University's Trek 2010 vision including: "ensure that students have access to a range of courses and experiences that provide information and ideas about all parts of the world"; "support faculty efforts to integrate global perspectives into curricular planning and teaching practice"; and "increase opportunities for student participation in international projects and study abroad programs."

With respect to collaborations, these students will be able to take advantage of the high level of collaboration between faculty members at UBC and NUS, including research collaborations through the *UBC-NUS Applied Science Research Centre*.

Relation to the recognition referred to in (A)

The recognition referred to in (A) arises through the transcript and the degree parchment. As with exchange students and/or joint degree students, the UBC transcript will refer to this joint program and will list the courses taken at NUS as transfer credits. The parchment will carry the crests of both universities and will contain the wording indicated in the response to Comment A.

APPENDIX III – COMPANION SUBMISSION TO THE ACADEMIC POLICY COMMITTEE

RE: PROPOSAL FOR A JOINT DEGREE PROGRAM BETWEEN UBC AND NUS IN MECHATRONICS DESIGN

Paul: Further to my recent meeting with the Academic Policy Committee, I hereby submit a revised proposal for the above joint degree program. I am writing to request your Committee's endorsement of the proposal set out below and your transmittal of the corresponding recommendations to Senate for its approval. I am sending a complementary curriculum proposal to the Senate Curriculum Committee for its approval, focusing on the curriculum aspects of the program. I would be pleased to meet with your committee once more, or otherwise to respond to or modify the proposal if you feel that this is needed. However, I got the sense that the committee was largely comfortable with the substance of the proposal, but would like it re-cast as a joint degree program proposal. Therefore, you may prefer to secure your Committee's e-mail endorsement of the proposal. In any event, I would be grateful for a timely consideration of this matter, since we wish to promote this activity very quickly in advance of student admissions in September 2007. Thank you for considering this Paul. Sincerely - Michael

PROPOSAL

I am requesting the transmittal of the following recommendations to Senate, the first subject to the approval of the Senate Curriculum Committee:

- *That Senate approve the joint degree program in Mechatronics Design to be offered by the Faculty of Applied Science at the University of British Columbia and the Faculty of Engineering at the National University of Singapore (NUS).*

- *That the degree parchment for the UBC stream of this program, the MEng in Mechatronics Design conferred by UBC, carry also the crest of NUS and include the words "… Senate, upon the recommendation of the Faculty of Applied Science and following completion of the requirements of the joint program in Mechatronics Design at the University of British Columbia and the National University of Singapore, has conferred the degree of …".*

- *That the degree parchment for the NUS stream of this program, the MS in Mechatronics Design conferred by NUS, carry also the crest of UBC and include the words "having completed the requirements of the joint program in Mechatronics Design at the National University of Singapore and the University of British Columbia".*

INTRODUCTION

In support of the University's vision of preparing its students to become exceptional global citizens, the Faculty of Applied Science is seeking approaches to enhancing its collaborations with prestigious universities overseas and to providing its students with increased international experiences. One such approach that has been developed is a close collaboration with the National University of Singapore (NUS) in the area of Mechatronics Design. This is a joint degree program, whereby both universities will collaborate closely and will both be engaged in the governance and delivery of this degree program.

The program will contribute to a number of aspects of the University's Trek 2010 vision including:

- "develop new programs on global citizenship,"

- “ensure that students have access to a range of courses and experiences that provide information and ideas about all parts of the world,”
- “support faculty efforts to integrate global perspectives into curricular planning and teaching practice,”
- “explore new avenues in professional … education,” and
- “increase opportunities for student participation in international projects and study abroad programs.”

The Faculty of Applied Science already offers the Master of Engineering in Mechatronics Design. Likewise, the Faculty of Engineering at NUS already offers an equivalent degree, the Master of Science in Mechatronics Design. The proposed joint degree program corresponds to an alternative to these two single-university degrees, one that entails a high level of collaboration and significant international experiences.

RESPONSE TO JOINT DEGREE QUESTIONNAIRE

The Senate Academic Policy Committee has requested that proposals for joint degrees provide responses to a particular set of questions. These questions and their responses are given below:

Does the degree designation on the parchment conform to UBC Senate approved policy?

The proposed degree designation and parchment information are rather unique as described below:

Even though this is a joint degree program, because of constraints associated with the implication of degree names at the two institutions, this joint degree program will in fact lead to different parchments for each of two cohorts of students. The proposed degree is a non-research, course-based professional degree in engineering. However, the UBC name for such a degree, Master of Engineering, cannot be used at NUS for a non-research, professional degree. Likewise, the NUS name for such a degree, Master of Science, cannot be used at UBC for a non-research, professional degree. To avoid this impasse, the two Faculties have agreed to collaborate on this joint degree program, with the intent that it will lead to different degree designations and parchments for the two cohorts of students.

One cohort of students, for which UBC will be designated the home institution, will be awarded the UBC Master of Engineering degree, with a degree parchment that carries the crests of both universities. The other cohort of students, for which NUS will be designated the home institution, will be awarded the NUS Master of Science degree, with a degree parchment that carries the crests of both universities. Specifically, it is requested that:

- *The degree parchment for the UBC stream of this program, the MEng in Mechatronics Design conferred by UBC, carry also the crest of NUS and include the words "… Senate, upon the recommendation of the Faculty of Applied Science and following completion of the requirements of the joint program in Mechatronics Design at the University of British Columbia and the National University of Singapore, has conferred the degree of …".*

- *The degree parchment for the NUS stream of this program, the MS in Mechatronics Design conferred by NUS, carry also the crest of UBC and include the words "having completed the requirements of the joint program in Mechatronics Design at the National University of Singapore and the University of British Columbia".*

Why cannot such a program be covered by UBC's current exchange arrangements?

An exchange program would be appropriate if the intention of the association is solely to provide an opportunity for students to take courses at the sister institution, with these recorded in the same manner as transfer credits on the academic transcript. The ability for a student to participate in an exchange program can vary widely and only a few cases at the graduate level have been established. The intent of this joint program of activity is very much deeper. It is intended to recognize the much higher level of collaboration between faculty members, the high level of contribution of both institutions in teaching and program delivery, and the joint participation of both institutions in the program's academic governance. Finally, there is also the potential to offer specific services to these students that would not be possible through an exchange agreement. All these considerations justify the need to provide students with a value-added designation recognizing the deep collaboration that an exchange program cannot provide.

What are the advantages of the specific proposal to students at both UBC and NUS?

Students will be able to take advantage of the high level of collaboration between faculty members at UBC and NUS, including research collaborations through the UBC-NUS Applied Science Research Centre; exposure to near equal levels of contribution from each of the two institutions (each one ranging from 40% to 60%); the global citizenship experiences associated with study in another country; the benefits of a high quality program with academic governance provided by two world-renowned institutions; and, most importantly, the prestige that the presence of both university crests on the degree parchment will provide.

Is there assurance that a student will be registered in both institutions?

Yes. However, the degree program will entail two streams, and student will register differently under each stream. Each student will remain registered at his or her home institution, with the record of courses taken at the partner institution entered on the home transcript. Student registration in the partner institution for some courses will be analogous to the registration of those with exchange or visiting student status.

Are there mechanisms in place to ensure that student records are maintained in both institutions?

The program will by administered by a Board of Study with representatives from both institutions and reporting to the relevant Deans at both institutions. The Board of Study will maintain all student records. Student records will also be maintained at the home institution.

Are there mechanisms in place to ensure that a student enrolled in a joint program has access to housing, loans, scholarships, athletics and recreational facilities, daycare, library privileges, e-mail accounts in at least one of the institutions?

Yes. Students at their home institution will have access to such facilities, just as do all other students at that institution. Students at their partner institution will have access to such facilities analogous to the case of visiting or exchange students.

Are there procedures in place to ensure that actions related to student discipline are in place for such students, at least at one of the institutions?

Yes. Matters of student discipline will be referred in the first instance to the Board of Study. Students will be subject to the regulations of their home institution.

Are the standards set for student admissions at both institutions comparable in respect to the specific program being offered?

Yes. Students will be admitted to the program on the recommendation of the Board of Study based on a single set of admission standards. These admission standards are also consistent with the corresponding UBC-only and NUS-only versions of these degrees.

Are the students enrolled in a joint degree program expected to spend at least two years in residence on the UBC campus?

No. There is no longer a residency requirement for graduate studies at UBC. Nor is there a residency requirement for graduate studies at NUS. In fact, of the minimum three-term duration for this degree program, both cohorts of students will spend a minimum of one term at UBC and one term at NUS.

In place of residency considerations, the relative participation of the two institutions in the courses taken is relevant: All students will be required to complete a minimum of 12 credits of course-work at UBC (typically over one term), and a minimum of 12 credits of course-work at NUS (typically over one term). The remaining 6 credits will be awarded for a collaborative project course, typically involving an industry sponsor and co-supervisors from both universities. This course may be taken through either UBC or NUS. Therefore, the credit contribution of each institution to the joint program will range from 12 to 18 credits. That is, the relative participation of the two institutions will range from 40% UBC / 60% NUS to 60% UBC / 40% NUS. Thus, the relative involvement of both institutions is significant and entirely consistent with the expectations of a joint degree program.

Will decisions made about student progress, etc. made at one institution be respected/accepted by the partner institutions?

Yes. As with an exchange agreement or transfer credits, student progress in individual courses will reside at the institution at which the courses are taken, whereas the record of overall student progress will reside both at the home institution and with the Board of Study.

In the event that a student decides to drop out of the joint degree program, and transfers to another program at one of the partner institutions, is there assurance that the student's new program will accept appropriate courses taken prior to transfer, at all of the cooperating institutions?

If a student transfers to the single-university stream of the program or another related program at the home institution, the courses taken prior to transfer would be evaluated in the same way as for any other program transfer request. A request to transfer to a program at the partner institution would be treated as a new application.

For the information of the Academic Policy Committee, I have included two additional questions and responses as follows:

Is the involvement of the two institutions sufficient to warrant the use of both university crests on the degree parchments?

The involvement of the two universities occurs in three ways:

- as indicated earlier, each university will contribute a minimum of 40% and a maximum of 60% towards the credits taken in this program;

- both institutions will have equal participation on the joint Board of Study which is vested with academic control; and

- faculty members at both institutions will participate in teaching courses at the partner institution and will co-supervise students in the industry project course.

Taken together, these contributions are at a level that is typical of a joint degree and therefore should be sufficient to warrant the use of both university crests on the degree parchment.

Are the academic standards (admissions, curricula, degree completion requirements) of the two streams equivalent to each other and equivalent to the standards of the corresponding single-university degrees?

It is noted that both universities currently offer corresponding single-university degrees without their collaboration. That is, the Master of Engineering in Mechatronics Design already exists at UBC as a UBC-only degree.

As already indicated, the program will by administered by a Board of Study with representatives from both institutions and reporting to the relevant Deans at both institutions. The Board is co-chaired by the Program Directors at each University and has UBC and NUS representatives who are faculty members appointed by their respective Deans.

The Board of Study is responsible for approving student admissions, the introduction and approval of curriculum changes, the industry project, and the completion of graduation requirements. That is, the Board of Study will ensure that the admissions, curriculum and program completion requirements of each institution are upheld and are equivalent. The Board of Study will approve, among other things, courses taken at NUS towards the UBC degree, and courses taken at UBC towards the NUS degree.

The composition of the Board of Studies and its authority with respect to admissions, curriculum and degree completion requirements, should provide sufficient assurances that the academic standards of both streams of this degree program are equivalent to each other, and as well are equivalent to the single-university streams of the two degrees.