



New Program/Major or Minor/Concentration Proposal Form

(07/2004)

<p>1.0 Degree Title Please specify the two degrees for concurrent degree programs</p> <input type="text" value="M.Sc."/>	<p>2.0 Administering Faculty/Unit</p> <input type="text" value="Graduate and Postdoctoral Studies"/>
<p>1.1 Major (Legacy= Subject)(30-char. max.)</p> <input type="text" value="Experimental Surgery"/>	<p>Offering Faculty/Department</p> <input type="text" value="Faculty of Medicine/ Department of Surgery"/>
<p>1.2 Concentration (Legacy = Concentration/Option) If applicable to Majors only (30 char. max.)</p> <input type="text" value="Surgical Innovation"/>	<p>3.0 Effective Term of Implementation (Ex. Sept. 2004 = 200409) Term</p> <input type="text" value="201409"/>
<p>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</p> <input type="text"/>	

4.0 Rationale for new proposal

The existing degree serves an important function in preparing surgeon scientists and basic science researchers for their lab based and outcomes master's projects. However we have identified an unmet need for graduate training namely the surgeon trainee or scientist with a surgically related project for whom the process of innovation is of interest. The aim of the concentration is to attract more residents and scientists into surgical research by offering training that is likely to be more relevant to them going forwards. The process of innovation requires not only a multidisciplinary education and experience but also the formation of teams that can work effectively together to break this complex process down into manageable sized tasks. This need can be met through the provision of this concentration.

5.0 Program Information
Please check appropriate box(es)

<p>5.1 Program Type</p> <p>Bachelor's Program</p> <p>Master's</p> <p><input checked="" type="checkbox"/> M.Sc. (Applied) Program</p> <p>Dual Degree/Concurrent Program</p> <p>Certificate</p> <p>Diploma</p> <p>Graduate Certificate</p> <p>Graduate Diploma</p> <p>Ph.D. Program</p> <p>Doctorate Program (Other than Ph.D.)</p> <p>Private Program</p> <p>Off-Campus Program</p> <p>Distance Education Program (By Correspondence)</p> <p>Other (Please specify)</p>	<p>5.2 Category</p> <p>Faculty Program (FP)</p> <p>Major</p> <p>Joint Major</p> <p>Major Concentration (CON)</p> <p>Minor</p> <p>Minor Concentration (CON)</p> <p>Honours (HON)</p> <p>Joint Honours Component (HC)</p> <p>Internship/Co-op</p> <p><input checked="" type="checkbox"/> Thesis (T)</p> <p>Non-Thesis (N)</p> <p>Other</p> <p>Please specify</p> <input type="text"/>	<p>5.3 Level</p> <p>Undergraduate</p> <p>Dentistry/Law/Medicine</p> <p>Continuing Ed (Non-Credit)</p> <p>Collegial</p> <p><input checked="" type="checkbox"/> Masters & Grad Dips & Certs</p> <p>Doctorate</p> <p>Post-Graduate Medicine/Dentistry</p> <p>Graduate Qualifying</p> <p>Postdoctoral Fellows</p>
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<p>6.0 Total Credits</p> <input type="text" value="45"/>	<p>7.0 Consultation with Related Units Yes <input checked="" type="checkbox"/> No</p> <p>Financial Consult Yes No</p> <p>Attach list of consultations.</p>
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8.0 Program Description (Maximum 150 words)

Experimental Surgery, concentration in Surgical Innovation, offers graduate level training program in Experimental Surgery, leading to a Master's degree. This concentration allows for a hands-on learning experience for students to develop skills necessary to work within multi-disciplinary teams in the creation of a novel, needs driven, and marketable prototypes used in development of novel surgical and medical devices. As such participants work in multidisciplinary teams to identify clinical needs and to innovate solutions to them.

9.0 List of proposed program for the New Program/Major or Minor/Concentration.

Existing MSc in Experimental Surgery (45 Credits)

Thesis Courses (30 credits)

- EXSU 690 M.Sc. Research 1 (4 credits)
- EXSU 691 M.Sc. Research 2 (4 credits)
- EXSU 692 M.Sc. Research 3 (4 credits)
- EXSU 693 M.Sc. Thesis (18 credits)

Required Courses (12 credits)

- EXSU 601 Knowledge Management (6 credits)
- EXSU 605 Biomedical Research Innovation (3 credits)
- EXSU 606 Statistics for Surgical Research (3 credits)

Complementary Courses (3 credits)

3 credits taken from 500, 600, 700 level courses in consultation with the Research Advisory Committee.

Depending on their individual background, students may be asked by their Research Advisory Committee to take additional courses.

Proposed-M.Sc. in Experimental Surgery; Surgical Innovation (45 credits)**Thesis Courses (30 credits)**

EXSU 690 (4) M.Sc. Research 1
 EXSU 691 (4) M.Sc. Research 2
 EXSU 692 (4) M.Sc. Research 3
 EXSU 693 (18) M.Sc. Thesis

Required Courses (12 credits)

Required Courses (12 credits)

- EXSU 605 Biomedical Research Innovation (3 credits)
- EXSU 606 Statistics for Surgical Research (3 credits)

EXSU 620	Surgical Innovation 1	3 Credits
EXSU 621	Surgical Innovation 2	3 Credits

Complementary Courses (3 credits)

3 credits taken from 500, 600, 700 level courses in the student's specialty, in consultation with the Research Advisory Committee.

The Current Admission Requirements for Msc in Experimental Surgery:

B.Sc., M.D., or D.V.M. degree is required, with a minimum CGPA of 3.2/4.0

2 letter of reference
 CV
 Transcripts
 TOEFL (if necessary)
 Research Proposal
 Confirmation of supervisor
 Memorandum of agreement

Education Concentration Admission Requirements:

B.Sc., M.D., D.V.M., a Bsc (Nursing) or Bsc (Rehabilitation Science) (Occupational and Physical Therapy) degrees are required, with a minimum CGPA of 3.2/4.0

Rationale for changes: Surgery is a complex and multidisciplinary environment involving many acute care areas including the emergency room, the operating room, the Intensive care, and ward. Surgery depends a lot on individual skill but also depends heavily and primarily on high functioning teams. It is in this context that other members of the surgical team would also be interested in the unique aspects of Surgical Education and wish to pursue a higher degree and further training. These members include nursing, physiotherapy and occupational therapy.

2 letters of reference
 CV
 Transcripts,
 TOEFL, if necessary
 Research Proposal
 Confirmation of Supervisor
 Memorandum of Agreement
Letter of Intent
Interview

Rationale for changes:

- The rationale for the added requirement of letter of intent and interview is to select truly committed individuals with a plan for a career in surgical education

Surgical Innovation Concentration Requirements:

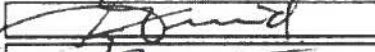



B.Sc., M.D., or D.V.M. degree is required, with a minimum CGPA of 3.2/4.0

2 letters of reference
 CV
 Transcripts,
 TOEFL, if necessary

Research Proposal
Confirmation of Supervisor
Memorandum of Agreement
Letter of Intent
Interview

Rationale for changes:

- The rationale for the added requirement of letter of intent and interview is to ensure the selection of individuals who will remain committed and to ensure that they have the desired abilities and skills to perform well in the surgical innovation program not only as individuals but also in a team setting.

10.0 Approvals			
Routing Sequence	Name	Signature	Date
Department	Gerald Fried		29 November 2013
Curric/Acad Committee	Lisbet Haakund		29/11/2013
Faculty 1 BCC	Dr. David Ragsdale		Feb 4 2014
Faculty 2	Dr. Elaine Davis		Feb 4 '14
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by		To be completed by ARR:	
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Submission Date	29/11/2013		