



<p>1.0 Degree Title Please specify the two degrees for concurrent degree programs</p> <p>Graduate Certificate</p> <p>1.1 Major (Legacy= Subject)(30-char. max.)</p> <p>Surgical Innovation</p> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable to Majors only (30 char. max.)</p> <p></p> <p>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</p> <p></p>	<p>2.0 Administering Faculty/Unit</p> <p>GPS</p> <p>Offering Faculty/Department</p> <p>Medicine/ Surgery</p> <p>3.0 Effective Term of Implementation (Ex. Sept. 2004 = 200409) Term</p> <p>201609</p>
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4.0 Rationale and Admission Requirements for New Proposal

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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>M.Sc. (Applied) Program</p> <p>Dual Degree/Concurrent Program</p> <p>Certificate</p> <p>Diploma</p> <p><input checked="" type="checkbox"/> 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>Thesis (T)</p> <p>Non-Thesis (N)</p> <p>Other</p> <p>Please specify</p> <p></p>	<p>5.3 Level</p> <p>Undergraduate</p> <p>Dentistry/Law/Medicine</p> <p>Continuing Studies (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> <p>5.4 FQRSC (Research) Indicator (for GPS) Yes No</p>
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6.0 Total Credits

15

7.0 Consultation with Related Units

Yes No

Financial Consult Yes No

Attach list of consultations. Did consult Real del Degan

The core of this 15 credit graduate program is two innovation courses (EXSU 620-621) delivered by McGill Department of Surgery and with some sessions by external partners: John Molson School of Business (lean start-up), Concordia (software design), Local Industry (Regulatory & IP) and ETS (prototyping). The first semester of the program core focuses on team building and, supported by lectures, the students embark on a needs finding process by observing all aspect of clinical activity in their focus themes. The trainees learn basic prototyping skills, start up organization and project management. This is supplemented by a basic stats course and an introduction to the current status of biomedical research innovation. This certificate then gives a solid foundation in the innovation process.

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

If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of all courses) of existing Major/Minor.

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight under the headings of: Required Courses, Complementary Courses, Elective Courses)

REQUIRED COURSES (12 credits)

EXSU 605 Biomedical Research Innovation (3 cr.)

EXSU 606 Statistics for Surgical Research (3 cr.)

EXSU 620 Surgical Innovation 1 (3 cr.)

EXSU 621 Surgical Innovation 2 (3 cr.)

Elective COURSES (3 credits)

3 CREDITS AT THE 500 LEVEL OR HIGHER, CHOSEN IN CONSULTATION WITH THE PROGRAM DIRECTOR.

Some courses may be substituted with equivalents if timetabling requires it.

10.0 Approvals			
Routing Sequence	Name	Signature	Date
Department	Gerald M. Fried, MD		March 3, 2016
Curric/Acad Committee	Anie Philio, PhD		March 3, 1016
Faculty 1	DAVID RAGSDALE		March 22 2016
Faculty 2			
Faculty 3			
CGPS	SCTP		
SCTP	APPROVED		Apr. 7, 2016
APC	APPROVED		
Senate			
Submitted by			
			
Name	Jake Barralet	To be completed by ARR:	
Phone	514-3983908	CIP Code	
Email	jake.barralet@mcill.ca		
Submission Date	Feb 26th 2016		

RATIONALE:

Graduate research training in surgery has traditionally been served by the Experimental Surgery Research Masters and PhD thesis programs. The skills required within the realm of surgical research can no longer only be met by the present curriculum in Experimental Surgery. A more tailored approach is in line with the particular research expertise and interest within the Department of Surgery and the candidates. 3 concentrations have been developed, Innovation, Education and Global Health. The core of teaching of the Innovation Concentration revolves around a needs finding and refinement process followed by brainstorming and prototype development. This is a highly surgically orientated process in which many residents are interested but are unable to commit tie to a graduate Masters Degree. For surgery residents and applicants with an interest in employment within the medical device sector this Certificate provides a short program of innovation training with an emphasis on the process of team-based surgical device innovation.

The Certificate is open to health care and research professionals, surgical and medical residents, pharmacists, nurses, and those with a GPA in undergraduate degree of 3.0 or higher in the medical and allied sciences, or two or more years experience in the medical sector. The credits gained in this program may not automatically be transferred to another program prior to or after completion. Exceptions may apply in the case of a transfer prior to completion only in the case of extraordinary performance e.g, GPA 3.5 or higher in all courses and is at the discretion of the Graduate Studies Director. The Department of Surgery has not revised, reviewed or retired any programs as a result of this Graduate Certificate Proposal