

SURGICAL INNOVATION (GR. DIP.) (30 CREDITS)

Offered by: Surgery (Faculty of Medicine and Health Sciences)
Program credit weight: 30

Program Description

The cores of this 30-credit program are two-fold. Firstly, two innovation courses are offered by the McGill Department of Experimental Surgery (EXSU 620 Surgical Innovation 1. & EXSU 621 Surgical Innovation 2.) and supporting courses are delivered by the McGill Department of Surgery with some sessions in those courses provided by external partners: Local Industry (Regulatory & IP), the John Molson School of Business (JMSB) (lean start-up), Concordia University (software design), and L'École de technologie supérieure (ETS) (prototyping). Secondly, fundamental business and management courses provided by the School of Continuing Studies (McGill) and JMSB are taken concurrently and reinforce the innovation project team experience. Students embark on a hospital-based needs finding process by observing all aspects 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 statistics course and an introduction to the current status of biomedical research innovation. This graduate diploma then gives a business-oriented training in the surgical innovation process.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (15 credits)

12 credits in:

Expand allContract all

Course	Title	Credits
CORG 556	Managing and Engaging Teamwork.	3
EXSU 619	The Hospital Environment.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3

And:

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EPIB 507	Biostats for Health Sciences.	3
EXSU 606	Statistics for Surgical Research.	3

Complementary Courses (9 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
CACC 520	Accounting for Management.	3
CMR2 642	Marketing Principles and Applications.	3
CPL2 610	Practical Communication and Presentation Skills .	3

Or:

9 credits of graduate-level courses taken at Concordia University, chosen in consultation with the program director/advisor.

Elective Courses (6 credits)

6 credits at the 500 level or higher, taken in consultation with the program director/advisor.

Some courses may be substituted with equivalents at the 500 level or higher if timetabling or background of the student requires it, e.g., prior qualification in accounting.