

# SURGICAL AND INTERVENTIONAL SCIENCES (THESIS): SURGICAL INNOVATION (M.SC.) (45 CREDITS)

**Offered by:** Surgery (Faculty of Medicine and Health Sciences)

**Degree:** Master of Science

**Program credit weight:** 45

## Program Description

The M.Sc. in Surgical and Interventional Sciences; Surgical Innovation program focuses on hands-on learning experience and the skills necessary for the creation of novel, needs driven and marketable prototypes used in development of novel surgical and medical devices. Identification of clinical needs and innovate solutions.

**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.

## Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

## Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
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 (3 credits)

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

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