

SURGICAL AND INTERVENTIONAL SCIENCES (THESIS): SURGICAL OUTCOMES RESEARCH (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 Outcomes Research program focuses on the science of measuring and improving the outcomes of surgical patients. The program addresses research methods, biostatistics, and strategies to measure and improve postoperative outcomes. The thesis component of the program must focus on a topic in the field of surgical outcomes research.

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 (33 credits)

Expand allContract all

Course	Title	Credits
EXSU 610	Surgical Outcomes Research Foundations.	3
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

Complementary Courses (12 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 600	Clinical Epidemiology.	3
EXMD 600	Principles of Clinical Research.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 507	Biostats for Health Sciences.	3
EXMD 634	Quantitative Research Methods.	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 521	Regression Analysis for Health Sciences.	3
EPIB 629	Knowledge Synthesis.	3
EXSU 500	Artificial Intelligence in Medicine .	3
FMED 625	Introduction to Qualitative Research in Health.	3
PPHS 527	Economics for Health Services Research and Policy.	3

Or other relevant 500-, 600-, or 700-level courses upon approval of the student's Research Advisory Committee.