

MEDICAL SCIENCES 4000E: PARTNERING FOR IMPACT IN MEDICAL SCIENCES

An experiential learning course in which students actively develop and apply research and project skills, both independently and collaboratively, by engaging with partners in a community, clinical, or industry setting.

Prerequisite(s): Registration in Year 4 of the Honours BMSc degree with Double Majors.

Antirequisite(s): Anatomy and Cell Biology 4480E, Biochemistry 4483E, Biochemistry 4484E, Biochemistry 4955E, Epidemiology and Biostatistics 4900E, Medical Bioinformatics 4980E, Medical Biophysics 4970E, Medical Sciences 4990E, Medical Sciences 4995E, Microbiology and Immunology 4970E, One Health 4980E, Pathology 4980E, Physiology and Pharmacology 4980E.

Extra Information: 8-10 hours per week.

1.0 course

LEARNING OUTCOMES

By the end of the experiential learning opportunity, students will be able to:

- Skillfully and safely perform a range of techniques, methodologies, or practices relevant to the chosen experiential setting (e.g., laboratory, clinical, community, entrepreneurial).
- Clearly and concisely record, analyze, and interpret data, observations, or outcomes from the experiential learning experience, integrating relevant scientific and social perspectives.
- Evaluate real-world scenarios by integrating knowledge from medical sciences and other relevant disciplines to analyze complex problems and propose well-informed, evidence-based solutions.
- Effectively communicate scientific or project-based knowledge to diverse audiences, including peers, professionals, and non-experts, using appropriate oral and written formats and delivery techniques.
- Collaborate effectively within multidisciplinary teams by demonstrating respect for diverse perspectives, and, where appropriate, showing leadership in achieving shared goals.
- Develop and implement a professional, practical, and evidence-based deliverable or initiative that addresses a specific need or challenge, relevant to the experiential learning context (e.g., community health initiative, research outcome, entrepreneurial solution).

ASSESSMENT STRUCTURE

Inquiry and Implementation Plan 10% (Group)

Environmental Scan and Literature Review 15% (Individual)

Position Paper 15% (Individual)

Final Deliverable 15% (Group)

Poster Presentation 5% (Group)

Theory Test 15% (Individual)

ePortfolio 10% (Individual)

Progress Reports 5% (Individual)

Participation and Professionalism 10% (Individual)