HONOURS BACHELOR IN TRANSLATIONAL AND MOLECULAR MEDICINE AND DOCTORATE OF PHILOSOPHY BIOCHEMISTRY

Overview

The Bachelor of Science with Honours in Translational and Molecular Medicine (TMM) is a unique collaborative effort between the Faculty of Medicine’s researchers and its affiliated institutes. The program integrates theoretical and practical courses with e-learning, offering students an enriching educational environment and exposing them to innovative research throughout their studies. TMM offers the largest number of advanced laboratories for an undergraduate program in Canada. Students are taught by both basic scientists and clinicians, providing them with the skillsets required to perform cutting-edge biomedical research.

Three program options are available: Honours in Translational and Molecular Medicine, Integrated Honours BSc/MSc in Biochemistry, Cellular and Molecular Medicine, Microbiology and Immunology or Neuroscience, and the Integrated BSc/PhD program in the same disciplines.

Admission Requirements

For the Integrated Honours BSc/PhD, all the requirements for admission for the Honours BSc in Translational and Molecular Medicine must be met along with minimum admission average of 8.0 (CGPA) and an admission interview.

Program Requirements

The French immersion stream is available with this program.

Compulsory courses:

- TMM 3009 Biomedical Research Laboratory 9 Units
- TMM 3101 Molecular Biology and Inherited Disorders 3 Units
- TMM 3102 Proteins: Structure, Function and Disease 3 Units
- TMM 3103 Metabolic Pathways of Human Diseases 3 Units
- TMM 3104 Cellular Basis of Disease 3 Units
- TMM 5900 Research Project 12 Units
- TMM 4950 Science Communication 3 Units
- TMM 3300 Selected Topics in Translational and Molecular Medicine 3 Units
- TMM 4910 Advanced Methods in Biomedical Research - Special Topics 1.5 Units
- MED 8166 Professionalism and Professional Skills

3 course units from:

- PHS 3341 Physiology of Sensation, Regulation Mechanisms, Movement and Reproduction
- PHS 3342 Physiological Regulation of Intake, Distribution, Protection and Elimination
- TMM 3105 Immunity and Infectious Diseases

TMM 3106 Introduction to Neurobiology
TMM 3107 Introduction to high-throughput and systems biology methods relevant to diseases
TMM 3300 Selected Topics in Translational and Molecular Medicine

Optional Courses:

- 6 optional course units from the 5000 and 8000 level 6 Units

Elective Courses:

- 6 elective course units from another faculty 6 Units

Note(s)

1 PHI 2396 is strongly recommended.