HONOURS BACHELOR IN TRANSLATIONAL AND MOLECULAR MEDICINE AND DOCTORATE OF PHILOSOPHY

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.

Basis of admission: two full years of study in a BSc. (60 units)

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 3300 Selected Topics in Translational and Molecular Medicine 3 Units
- TMM 4906 Life in a Lab I 1.5 Units
- TMM 4907 Life in a Lab II 1.5 Units
- TMM 4950 Science Communication 3 Units
- TMM 5900 Research Project 12 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

Seminar:
- 3 units of seminar courses from the list depending on the discipline of the Doctorate
  - BCH 8366 PhD Seminar
  - CMM 8325S Seminars II
  - MIC 8366 PhD Seminar
  - NSC 8325SSeminar for PhD Students

Thesis:
- THD 9999 Doctoral Thesis

Comprehensive Exam:
- 3 units from the list depending on the discipline of the Doctorate
  - BCH 9998 Comprehensive Examination (PhD)
  - CMM 9998 Comprehensive Examination (PhD)
  - MIC 9998 Comprehensive Examination
  - NSC 9998 Comprehensive Examination (Ph.D.)

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.