3 Units

3 Units

6 Units

HONOURS BACHELOR OF SCIENCE TRANSLATIONAL AND MOLECULAR MEDICINE AND MSC

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 elearning, 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/MSc, 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

compared y	Jouroco				
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 unit	3 Units				
PHS 3341	Physiology of Sensation, Regulation Mechanisms, Movement and Reproduction				
PHS 3342	Physiological Regulation of Intake, Distribution, Protection and Elimination				
TMM 3105 Introduction to Immunology					
TMM 3106 Introduction to Neurobiology					
TMM 3107	Introduction to Genomics				

TMM 3108 I	ntrod	uctior	ı to	Medica	al Bi	oin	form	atics	

TMM 3300 Selected Topics in Translational and Molecular Medicine

TMM 3301 Introduction to Inquiry Based Research

TMM 3302 Current Topics in Precision Medicine

TMM 3902 Current Topics in Translational Medicine

Compulsory course for the microbiology program

MIC 5100 Pathogen Interactions and Host Compulsory course for the neuroscience program

3 course units from: 3 Units

NSC 5102 Cellular and Molecular Neuroscience

NSC 5104 Systems Neuroscience

Seminar

3 units of seminar courses from the list depending on the discipline of the Master's Degree

BCH 5366 MSc Seminar

CMM 8324Seminars I

MIC 5366 MSc Seminar

NSC 8324SSeminar for MSc Students

Thesis

THM 7999 Master's Thesis

Optional Courses

6 optional course units in biochemistry (BCH), cellular and molecular medicine (CMM), medicine (MED), microbiology and immunology (MIC) or neuroscience (NSC) at from the 5000, 6000, 7000 or 8000 level

Elective Courses

6 elective course units from another faculty 1 6 Units

Note(s)

http://catalogue.uottawa.ca/en/undergrad/honours-bachelor-science-translational-molecular-medicine-master-science-biochemistry/index.html

¹ PHI 2396 is strongly recommended.