

# TRANSLATIONAL MEDICINE

---

## Courses

### **TMED 800 Translational Medicine**

Students will learn about the translation of medical knowledge from a variety of medical disciplines. Classroom sessions will be divided into a traditional lecture, followed by an interactive discussion and a 3-minute student presentation. Clinical observerships will involve direct placement within various clinics (totalling three half-day observerships per student). Students will be expected to write a review article on the topic of their thesis research. (3.0 credit units)

### **TMED 801 Profession of Medicine**

This course will immerse students in the professional learning environment of Medicine. Course content will consist of attendance at a minimum number of weekly Medical Grand Rounds, followed by facilitated small group discussions. Students can expect to gain skills in communication, active listening, and critical thinking. Research seminars will be held during the winter term for presentation of thesis research proposals. (3.0 credit units)

### **TMED 802 Research Success Skills**

This course will equip students with many skills and certifications required to be a successful researcher in Translational Medicine. Instruction on study design, ethical and regulatory requirements for biomedical researchers will be provided through completion of online modules. A Library session will be included to teach strategies to search biomedical literature. Students will be expected to write a CIHR Canada Graduate Scholarship application and laboratory/research skills related to their thesis research will be evaluated. (3.0 credit units)

### **TMED 811 Next Generation Sequencing**

This course will teach students the theoretical and practical basis of high-throughput genomics and transcriptomics. The course is a combination of classroom lectures, practical bench science and practical computing. Students will learn to design, implement and analyze an experiment using next generation sequencing technology and be expected to demonstrate these skills in the course assignments. (1.5 credit units). Not offered 2024-25.

### **TMED 865 Cell imaging analysis**

The objective of this course is to familiarize graduate students with the principles and practice of cutting-edge technologies used for cell imaging analysis involved in biomedical and molecular sciences research. Offered annually. This course is offered jointly with BMED 865. (1.5 credit units).

Prerequisites: basic understanding of cell and molecular biology.

Exclusions: BMED 865

### **TMED 899 Master's Thesis Research**

### **TMED 999 Ph.D. Thesis Research**