Laboratory Medicine & Pathology Education Overview

**BSc MLS**
- Transition to clinical practice
- Hematology
- Hemostasis
- Pathogenic microbiology
- Human histology & histotechnology
- Clinical biochemistry
- Transfusion science
- Analysis & communication of biomedical information
- Research project
- Molecular approaches to the study & diagnosis of disease
- Techniques in molecular biology
- Applied toxicology
- Introduction to clinical laboratory management
- Clinical biochemistry
- Clinical immunology
- Emerging trends in medical laboratory science
- Advanced hematology

**MSc LMP**
- Introduction to the Profession: Foundations in physiology, pathology, genetics, pharmacology, haematology, immunology, infectious disease.
- Anatomic or General Pathology: Observerships
- Electives
- Hematopathology: Observerships
- Electives

**MD Program**
- General pathology: Orientation to basic pathology
- Anatomic pathology
- Dermatologic pathology
- General pathology: Including
- Hematopathology
- Microbiology
- Cytology
- Breast pathology
- Genito-urinary pathology
- Lymphoma
- Autopsy pathology
- Forensic pathology
- Pediatric pathology
- Surgical pathology
- Gynecological pathology
- Molecular pathology

**Residency programs**
- General pathology: Orientation to basic pathology
- Anatomic pathology
- Autopsy pathology
- Dermatologic pathology
- Cytology
- Breast pathology
- Genito-urinary pathology
- Hematopathology
- Forensic pathology
- Pediatric pathology
- Surgical pathology
- Gynecological pathology
- Hematopathology: Transfusion medicine
- Canadian Blood Service
- Bone marrow transplant
- Cytoanalytics
- Medical oncology
- Community laboratory hematology and hemoglobinopathy
- Adult hematology
- Pediatric hematology
- Coagulation
- Lymphoma pathology
- Immunohistochemistry
- Molecular pathology

**PhD LMP**
- Thesis-based: Introduction to Human Disease
- Cryobiology
- Experimental Design & Scientific Communication
- Practical Tools for Scientific Research
- Directed Reading in Laboratory Medicine and Pathology
- Analytical and Environmental Toxicology
- Laboratory Research Methods
- Toxicology and Regulation
- Techniques in Molecular Biology
- Technology and the Future of Medicine
- Thesis research

**Professional Workforce**
- Pathologists’ Assistant
- Course and practicum based:
  - Systematic Pathology
  - Anatomic Pathology Techniques
  - Laboratory Management
  - Pathologists’ Assistant Clinical Practicum
  - Research Project

**MD Fellowships**
- Professional Workforce
- Clinical Fellowships:
  - Clinical biochemistry
  - Clinical microbiology
  - Histocompatibility and immunogenetics

**Postdoctoral Fellowships**
- Professional Workforce
- Clinical microbiology
- Clinical biochemistry
- Histocompatibility and immunogenetics

**Fellowships**
- Professional Workforce
- Clinical microbiology
- Clinical biochemistry
- Histocompatibility and immunogenetics

**MD Program**
- Professional Workforce
- Forensic pathology
- Breast pathology
- Coagulation medicine
- Renal, hepatobiliary & transplantation pathology
- Lymphoproliferative disorders
- Molecular genetic pathology
- Pediatric pathology
- Transfusion medicine