

BIOMEDICAL LABORATORY TECHNOLOGY

140.CO



3 YEARS

www.dawsoncollege.qc.ca/biomedical-laboratory-technology

If you would like to:

- Become a member of a healthcare team and provide essential laboratory results to aid in patient care
- Perform clinical laboratory testing using automated instrumentation and the latest testing methodologies
- Learn in small classes with personalized attention from your teachers
- Complete clinical internships in diagnostic or research laboratories to prepare you for your professional career

Then the **Biomedical Laboratory Technology Program** could be for you.



Certification

Ordre professionnel des technologistes médicaux du Québec
Canadian Society for Medical Laboratory Science

The Biomedical Laboratory Technology Program gives students the theoretical knowledge and practical skills to contribute to the prevention, diagnosis and treatment of disease by providing biomedical laboratory services to physicians and other clients.



This program was an excellent stepping stone into my profession, training me with skills I will use every day in the workforce.

— Yousha A.

What will you learn?

- To apply health and safety practices to protect yourself, patients, co-workers and the environment
- To use highly specialized instruments and techniques to analyze biological specimens
- To perform laboratory analyses in hematology and hemostasis (the study of blood cells and blood coagulation), clinical biochemistry (the study of body functions and chemical processes), histology (the study of body tissues and organs), clinical microbiology (the study of microorganisms), transfusion science (the study of blood transfusions) and molecular biology (the study of biology on a molecular level).
- To produce reliable results which aid in the diagnosis of disease and in research into medical conditions and treatments
- To develop interpersonal and communications skills that allow you to interact as a team member and with patients
- To adapt to evolving technologies and techniques in biomedical analysis

Where will this program lead you?

The broad training in many specialties results in excellent employment opportunities locally and across Canada. Many jobs are available in hospitals, research centres, clinics and private laboratories as well as the Canadian Armed Forces. A number of employment opportunities also exist with pharmaceutical companies and biotechnology research laboratories.

You can become a member of the *Ordre professionnel des technologistes médicaux du Québec* upon completion of the program. You can also become nationally certified by the Canadian Society for Medical Laboratory Science, which will allow you to be recognized anywhere in Canada as a medical technologist.

Some graduates continue their education at the university level in programs including Microbiology, Immunology, Genetics, Biochemistry, Laboratory Management and Medicine. Additional prerequisites may be required and, in some cases, advanced credit is given.

What do you need to apply?

- A Diploma of Secondary Studies (DES) or academic background judged equivalent to the DES
- Sec IV Mathematics – Technical & Scientific option or Science option 564-426 or 565-426 or Sec V Cultural, Social & Technical option 563-504
- Sec V Chemistry 551-504
- Sec V Physics 553-504
- Interview*
- Placement at College English 101 and Basic French 100 (testing may be required)

What else should you know?

Once admitted to the program, students must:

- pass a criminal record check
- provide proof of a complete immunization record

Application Deadline

March 1

LIST OF SPECIFIC COURSES

All students must also take General Education courses such as English, French, Humanities and Physical Education, in addition to complementary courses.

YEAR 1 • Term 1

- Human Anatomy and Physiology
- Quality Assurance for Clinical Laboratories
- Laboratory Principles and Introduction to Hematology
- Basic Techniques and Instrumentation

YEAR 1 • Term 2

- Microorganisms and Disease 1
- Applied Immunology
- Clinical Chemistry 1
- Descriptive Histology

YEAR 2 • Term 3

- Specialized Biochemical Techniques
- Microorganisms and Disease 2
- Hemostasis
- Clinical Chemistry 2
- Applied Molecular Biology

YEAR 2 • Term 4

- Clinical Hematology
- Diagnostic Microbiology 1
- Basic Histotechniques
- Transfusion Practices 1
- Clinical Chemistry 3
- Procurement Internship (one week)

YEAR 3 • Term 5

Intensive 10 weeks

- Special Histotechniques
- Transfusion Practices 2
- Professional Practice in the Healthcare
- Introduction to Core Lab
- Diagnostic Microbiology 2

YEAR 3 • Term 6

25-week clinical internship

- Transfusion Science Internship
- Histology/Molecular Biology Internship
- Core Lab Internship
- Clinical Microbiology Internship
- Pharmacology for Biomedical Technologists (online)