

Medical Laboratory Technology

2-Year Diploma

Medical Laboratory Technologists are essential members of the healthcare team, using advanced laboratory testing to support diagnosis, treatment, and disease prevention in healthcare and research settings across Manitoba and beyond.

PROGRAM LEARNING OUTCOMES

- ▶ Collect blood and process specimens (blood, body fluids, and tissues) using appropriate collection techniques, labelling standards, and handling protocols to ensure specimen integrity and patient safety.
 - ▶ Apply foundational knowledge of anatomy, physiology, pathophysiology, and medical terminology to interpret test requirements and support patient-centered laboratory services.
 - ▶ Prepare, operate, and maintain laboratory instruments and equipment (e.g., analyzers, centrifuges, microscopes) following manufacturer instructions, institutional protocols, and safety standards.
 - ▶ Perform pre-analytical, analytical, and post-analytical procedures across the core laboratory disciplines (clinical chemistry, hematology, histotechnology, microbiology, and transfusion science) to generate accurate and reliable diagnostic results.
 - ▶ Integrate laboratory information systems (LIS) and informatics tools to enter, verify, retrieve, and manage patient and laboratory data while maintaining accuracy, confidentiality, and data security.
 - ▶ Apply quality assurance and quality control principles in accordance with regulatory, accreditation, and institutional requirements to support continuous improvement and reliability of laboratory services.
- For a full list of program learning outcomes, visit assiniboine.net/MLT.

A CAREER IN THIS FIELD IS A GOOD FIT FOR YOU IF YOU...

- ▶ Enjoy helping people and contributing to patient care
- ▶ Are comfortable working with blood and other bodily specimens
- ▶ Have strong attention to detail and value accuracy in your work
- ▶ Can follow strict safety protocols and procedures
- ▶ Are interested in medical science, anatomy, or diagnostic testing



Campus/Delivery Options
Victoria Avenue East campus



Available Intakes
September 2027



Industry Work Experience
Practicum (21 weeks)

EXPECTATIONS

Program and Industry

- ▶ Attend class in-person for full-time hours (28-36 hours depending on term)
- ▶ Work in clinical or laboratory settings that may include exposure to infectious materials such as blood, body fluids, and tissues
- ▶ Demonstrate strong technical abilities including fine motor control, good manual dexterity, visual acuity, and accurate colour discrimination
- ▶ Stand or sit for extended periods of time and perform repetitive tasks
- ▶ Collect specimens directly from patients, requiring emotional maturity and professionalism
- ▶ Wear personal protective equipment (PPE) such as gloves, lab coats, and face shields
- ▶ Follow precise protocols and perform tasks under time pressure
- ▶ Maintain patient confidentiality and adhere to professional codes of conduct
- ▶ Adapt to new technologies and keep pace with evolving laboratory practices
- ▶ Work within a 24-hour shift cycle which may include evening, nights, weekends, and holidays depending on employer and discipline.

CAREER OPPORTUNITIES

This program prepares graduates for success on the Canadian Alliance of Medical Laboratory Professionals Regulators Fields-of-Practice Exams, required for licensure with the College of Medical Laboratory Technologists of Manitoba (CMLTM). With licensure, graduates may pursue careers in medical laboratory sciences.

Workplaces and Employers

Urban, Community, or Rural Hospital Laboratories (Shared Health Manitoba), Provincial Laboratories (Cadham Provincial Laboratory and Veterinary Diagnostic Services Laboratory), Federal Laboratories (PHAC, CFIA, NML, etc.), Private Laboratories (Dynacare), Canadian Blood Services and Research Laboratories

ADMISSION REQUIREMENTS

Competitive Entry

- ▶ Letter of Intent
- ▶ CASPer © 2 test score

Academic Requirements

- ▶ A complete Manitoba Grade 12 or equivalent
 - English 40G/40S or equivalent with a minimum mark of 70%
 - Pre-Calculus, Applied or Essential Math 40S or equivalent with minimum mark of 70%
 - Biology 30S and 40S or equivalent with a minimum mark of 70%
 - Chemistry 40S or equivalent with a minimum mark of 70%

Note: Post-secondary level courses may be used to satisfy subject prerequisites.

Once offered conditional acceptance, you will be required to submit:

- ▶ Current Criminal Record Check (with Vulnerable Sector Check)
- ▶ Current Child Abuse Registry Check
- ▶ Current Adult Abuse Registry Check
- ▶ Immunizations – refer to website for more information