

ASSOCIATE OF APPLIED SCIENCE

Medical Laboratory Technician

SITE IN MINOT

Why study medical laboratory technology?

A Medical Laboratory Technician (MLT) is a healthcare professional who performs laboratory testing on blood and body fluids. Using automated analyzers and microscopes, MLTs play a critical role in helping physicians diagnose, treat, and prevent disease. Approximately 70% of medical decisions are based on laboratory results, making this profession essential to patient care. MLTs are in high demand in healthcare facilities nationwide.

Program Highlights

Students will learn foundational and complex concepts in hematology, microbiology, chemistry, immunohematology, urinalysis, and phlebotomy. Along with those, students will also learn about laboratory safety, quality control, safety, and laboratory instrumentation.

Our program offers small class sizes designed to maximize the learning and personable relationships. In hands-on lab portions, students will have the opportunity to work with lab equipment to reinforce and familiarize themselves with instrumentation.

Career choices

Graduates will have the option of working in hospitals, clinics, research facilities, and public health labs. Career advancement opportunities include becoming a Medical Laboratory Scientist (MLS), specializing in a specific laboratory discipline, or pursuing leadership roles.

Program requirements

The MLT program at DCB prepares students to perform laboratory testing and analyze results for healthcare providers. Each course includes a hands-on laboratory component aligned with lecture material.

- Degree Awarded: Associate of Applied Science
- Total Credits: 74
- Program Length: 6 semesters (including prerequisites)
- Format: In-person coursework with local clinical rotations
- Clinical Experience: Includes hands-on training with real patient samples in a clinical-like environment

Program Accreditation

The MLT program at DCB is seeking accreditation through National Accrediting Agency for Clinical Laboratory Sciences. Upon accreditation, graduates will be eligible to sit for the American Society for Clinical Pathology Board of Certification exam.



COURSES REQUIRED

Medical Laboratory Technician (AAS)

Semester 1: Fall

AH 171 Medical Terminology	3 cr
BIOL 115 Concepts of Anatomy & Physiology	4 cr
CHEM 115 Introductory Chemistry.....	4 cr
ENGL 110 College Composition I	3 cr

Semester 2: Spring

BIOL 202 Microbiology	4 cr
HPER 100 Concepts of Wellness & Fitness	2 cr
MATH 103 College Algebra.....	4 cr
MLS 101 Introduction to Medical Laboratory	2 cr
PSYC 111 Introduction to Psychology or SOC 110 Introduction to Sociology.....	3 cr

Semester 3: Fall

MLS 205 Phlebotomy & Specimen Collection/Lab.....	1 cr
MLS 208/L Clinical Immunology & Immunohematology I/Lab.....	4 cr
MLS 210/L Clinical Microbiology & Parasitology I/Lab.....	4 cr
MLS 214/L Clinical Hematology & Hemostasis I/Lab	4 cr
MLS 230/L Clinical Chemistry I/Lab.....	4 cr

Semester 4: Spring

MLS 114/L Urinalysis & Body Fluids/Lab	2 cr
MLS 218/L Clinical Immunology & Immunohematology II/Lab.....	4 cr
MLS 220/L Clinical Microbiology & Parasitology II/Lab.....	4 cr
MLS 224/L Clinical Hematology & Hemostasis II/Lab	4 cr
MLS 240/L Clinical Chemistry II/Lab.....	4 cr

Semester 5: Summer

MLS 216 Clinical Practicum I	3 cr
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Semester 6: Fall

MLS 256 Clinical Practicum II.....	5 cr
MLS 257 MLT Seminar.....	2 cr

All courses subject to change.



DAKOTA COLLEGE AT BOTTINEAU VISION

Dakota College at Bottineau is rooted in the past and grows towards the future by combining the best from the *Past, Present, and Future* to provide students with innovative educational opportunities. The campus will emphasize a knowledge and appreciation of *Nature*, implement a rapidly changing *Technology*, and prepare students to go *Beyond* and improve the quality of life.



CONTACT INFORMATION



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ADMISSION APPLICATION AND CAMPUS TOURS
Admission/Student Services: 800-542-6866

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