

MEDICAL LABORATORY TECHNOLOGY (AAS)

Associate of Applied Science

Career-Technical Program

Interest Areas: Healthcare

The Medical Laboratory Technology (MLT) program prepares graduates to work as medical lab technicians qualified to perform various laboratory procedures, including low-, medium-, and high-complexity testing. The MLT program includes instruction in the laboratory disciplines of microbiology, hematology, medical chemistry, transfusion medicine, urinalysis, and lab operations. Coursework is closely connected to student laboratory opportunities. After completing the theory for the discipline, clinical internship experiences are arranged offering students opportunities to practice in real-world laboratory environments.

Upon completion of the program, students are eligible to sit for a national certification examination. The certification of choice for most employers is through the American Society of Clinical Pathology (ASCP) Board of Certification. An individual must pass this examination to be eligible for most employment opportunities in medical labs in Idaho and Washington.

The Medical Laboratory Technology program is a competitive admissions program. Ten (10) students are admitted to the Professional Component of the program each spring semester. Program requirements other than the Professional Component are open to all students who meet the specific course prerequisites. An AAS degree can be obtained in a 24-month course of study following completion of the Program Requirements. A minimum grade point average of C+/2.3 is required in all MLT courses.

Program Website (https://www.nic.edu/programs/viewprogram.aspx?program_id=102)

Program Requirements

Course	Title	Credits
Semester 1		
ENGL-101	English Composition	3
MATH-143	College Algebra (or higher)	3
BIOL-175 or BIOL-227	Human Biology or Human Anatomy Physiology I With Cadaver	4
CHEM-101 or CHEM-111	Introduction to Essentials of General Chemistry I or Principles of General College Chemistry I	4-5
	Credits	14-15
Semester 2		
BACT-250	General Microbiology	4
CHEM-275 or CHEM-112	Carbon Compounds or Principles of General College Chemistry II	3-5
COMM-101	Introduction to Speech Communication	3
PSYC-101	Introduction to Psychology	3
	Credits	13-15
Semester 3		
MLT-100	Phlebotomy	2

MLT-124	Medical Lab Fundamentals	3
MLT-214	Hematology and Hemostasis	4
MLT-222	Basic Concepts in Transfusion Medicine	4
	Credits	13
Semester 4		
MLT-218	Medical Lab Chemistry	4
MLT-225	Parasitology, Mycology and Virology	2
	Credits	6
Semester 5		
MLT-112	Urinalysis and Other Body Fluids	2
MLT-220	Medical Microbiology	5
MLT-223	Immunology and Molecular Techniques	3
MLT-224	Advanced Medical Laboratory Technology Student Lab Practice	3
	Credits	13
Semester 6		
MLT-250	Capstone Seminar and Exam Review	5
MLT-291	Internship I	4
MLT-292	Internship II	4
	Credits	13
	Total Credits	72-75

Course Key



GEM



WCHE



AAS



Gateway



Milestone

Institutionally
Designated

Program Outcomes

Upon completion of the program, students will be able to:

- Be clinically competent.
 - Students will demonstrate the skills necessary to perform entry level competencies as a medical lab technician with routine medical laboratory tests in areas such as Chemistry, Hematology and Hemostasis, Immunology, Blood Banking, Microbiology, Urine and Body Fluid Analysis, and Laboratory Operations.
- Have appropriate critical decision skills.
 - Students will demonstrate knowledge in all types of laboratory testing (simple to complex) and
 - Students will recognize routine and non-routine issues in pre-analytical, analytical, post-analytical lab processes.
- Exhibit professionalism.
 - Students will demonstrate professional and ethical behavior by membership and active participation in laboratory or related professional organizations.
 - Students will model professional conduct by: respecting the feelings and needs of others, protecting the confidence of patient information, and not allowing personal concerns and biases to interfere with the welfare of patients
- Utilize appropriate communication and interpersonal skills.
 - Students will demonstrate effective communication skills to ensure accurate and appropriate information transfer.
 - Students will professionally and accurately report laboratory results, adapt communication to their audience and work with all members of the healthcare team.

In addition to the program outcomes, students will meet the following North Idaho College General Education (GEM) Requirements: Written and Oral Communication; Mathematical Ways of Knowing; Social and Behavioral Ways of Knowing; and an additional program-designated or selected course from any of the GEM requirements.