

# Medical Laboratory Technician

10-513-1 | Associate Degree | 64 Credits | Two Year | Financial Aid Eligible

**Campus:** New Richmond

\*Combination of On Site and Online instruction

## Program Overview

At career entry, the medical laboratory technician will be able to collect, process, and analyze blood and body fluids by performing routine clinical laboratory tests in the areas of hematology, clinical chemistry, immunology, immunohematology, microbiology, and urinalysis. Medical laboratory technicians are highly specialized healthcare professionals that use state-of-the-art equipment to provide laboratory test results to physicians that aid in the diagnosis, treatment, and prevention of disease. As an essential member of the healthcare team, Medical laboratory technicians work collaboratively with other healthcare professionals in hospitals, clinics, physician offices, and research laboratories.

## Admission Requirements

- Complete Online application form
- Submit an official high school (or HSED/GED) transcript with graduation date.
  - If you are a current high school student, you can be admitted with an unofficial, or official, current transcript. Your final official transcript with graduation date must be submitted prior to the program starting or you will be withdrawn from the program.
- Review and sign Background Check Disclosure
- Complete one year, or one credit, of high school chemistry or one credit of college-level chemistry with a 2.0 or better.
- Complete admissions meeting with a Northwood Tech counselor (academic admission requirements apply - see page 37 for more information)

## Program-Specific Requirements

- Submit Background Check Fee
- Have acceptable results based on the Wisconsin Caregiver Background Check, National Criminal Background Check, Minnesota Caregiver Background Check (if applicable), and other states, if applicable
- Complete physical exam and health requirements, including immunizations
- Review and sign Health Sciences Confidentiality Statement
- Possess current certification of "BLS Basic Life Support"
- Participate in a mandatory session scheduled prior to the start of classes.

## Program Outcomes

Medical Laboratory Technician graduates will be able to:

- Practice laboratory safety and regulatory compliance
- Collect and process biological specimens
- Monitor and evaluate quality control in the laboratory
- Apply modern clinical methodologies including problem solving and troubleshooting according to predetermined criteria
- Correlate laboratory results to diagnosis of clinical conditions and/or diseases
- Perform information processing in the clinical laboratory
- Model professional behaviors, ethics, and appearance

## Career Outlook

Graduates of this program will be qualified for the following positions:

- Medical Laboratory Technician
- Clinical Laboratory Technician
- Physician Office Laboratory Technician
- Pathology Research Assistant
- Quality Control Technician
- Research Technician
- Phlebotomist
- Genetic Lab Technician
- Industrial Laboratory Technician
- Agribusiness Laboratory Technician

## Related Program

- Phlebotomy

## Accreditation

This program is seeking accreditation by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd., Suite 720, Rosemont, IL 60018-5119, phone 773-714-8880.



## Required Courses

Number	Course Title	Credits (cr.)
<b>Program Courses</b>		
10513109	Blood Bank*	4 cr.
10513110	Basic Lab Skills	1 cr.
10513111	Phlebotomy*	2 cr.
10513113	QA Lab Math	1 cr.
10513114	Urinalysis*	2 cr.
10513115	Basic Immunology Concepts*	2 cr.
10513116	Clinical Chemistry*	4 cr.
10513120	Basic Hematology*	3 cr.
10513121	Coagulation*	1 cr.
10513130	Advanced Hematology*	2 cr.
10513133	Clinical Microbiology*	4 cr.
10513140	Advanced Microbiology*	2 cr.
10513141	Pre-Clinical Experience*	2 cr.
10513151	Clinical Experience 1*	3 cr.
10513152	Clinical Experience 2*	4 cr.
10513160	MLT Seminar*	1 cr.
10513170	Introduction to Molecular Diagnostics*	<u>2 cr.</u>
<b>Program Courses Total</b>		<b>40 cr.</b>
<b>General Education Courses</b>		
10801136	English Composition 1	3 cr.
10801196	Oral/Interpersonal Communication	3 cr.
10806177	General Anatomy and Physiology	4 cr.
10806186	Intro to Biochemistry*	4 cr.
10806197	Microbiology*	4 cr.
10809172	Introduction to Diversity Studies	3 cr.
10809198	Introduction to Psychology	<u>3 cr.</u>
<b>General Education Courses Total</b>		<b>24 cr.</b>
<b>TOTAL CREDITS</b>		<b>64 cr.</b>

\* Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.

You must earn a grade point of 2.0 or better in all required courses.

Course repeat policies exist that allow for only a certain number of retakes within this program; please refer to the policies for details.

See pages 221-302 for course descriptions.