

Clinical Laboratory Technician

A Clinical Laboratory Technician is responsible for assisting technologists and other workers in the clinical pathology laboratory. These job duties may include preparing specimens and operating automated analyzers. They also perform manual tests on patient specimens in accordance with detailed instructions.

Once courses are completed, the Clinical Laboratory Technician major is eligible for national certification (MLT). This certification helps to ensure employment and is the minimum credential required to work in most clinical laboratories. Students will start the program with many classes on campus and end their experience with a six-month practicum in a hospital. Emphasis in both will be on studying laboratory data and understanding physiological processes.

This degree has two concentrations: Clinical Laboratory Technician and Science Technician. With the Clinical Laboratory Technician students will earn certification as a MLT. The program develops proficiency in the performance of a variety of tests as well as understanding of the interrelationships of laboratory data and physiological processes. The CLT concentration career ladders in to the Bachelor's degree for 6 majors in Clinical Laboratory Science.

Skills and Competencies

A Clinical Laboratory Technician has to be meticulous and able to concentrate for long periods of time. Good vision and manual dexterity are also required. One must be able to collect and prepare all types of patient specimens for examination.

Course Work

This degree includes the following courses as part of the program requirements, and specific major requirements along with general education and graduation requirements.

Clinical Sciences Core

CLS100	Obtaining a Blood Specimen (1 cr.)
CLS109	Introduction to Diagnostic Sciences (1 cr.)
CLS190	Microscopy and Laboratory Techniques (1 cr.)
CLS200	Urine and Body Fluid Analysis (1 cr.)
CLS201	Clinical Hematology/Coagulation (3 cr.)
CLS202	Clinical Chemistry (4 cr.)
CLS203	Immunohematology (3 cr.)
CLS204	Clinical Microbiology (2 cr.)
CLS213	Clinical Immunology and Serology (1 cr.)

Other Required Courses

BI104	Human Anatomy & Physiology (4 cr.) or BI207 Human Anatomy and Physiology I (4 cr.)
CH111	General Chemistry I (5 cr.)
CH112	General Chemistry II (5 cr.)

Concentration (17-19)

<i>Clinical Laboratory Technician (19 cr.)</i>	
CLS214	Diagnostic Microbiology (3 cr.)
CLS250T	Clinical Practice (2 cr.)
CLS251	Clinical Hematology Practicum (3 cr.)
CLS252	Clinical Chemistry Practicum (4 cr.)
CLS253	Blood Bank Practicum (3 cr.)
CLS244	Clinical Microbiology and Blood Bank Simulation Laboratory (4 cr.) or CLS244 Clinical Laboratory Simulations (4 cr.)

Science Technologist (22 cr.)

BI111	Introductory Biology: Principles (4 cr.)
BI218	Introduction to Cell and Molecular Biology (4 cr.)
CH220	Introduction to Organic Chemistry (5 cr.) or PH201 College Physics (5 cr.)
MA111	College Algebra (4 cr.) or higher

General Education (12)

EN111	College Composition I (4 cr.)
EN211	College Composition II (4 cr.)
Social Responsibility in a Diverse World Elective (4 cr.)	

Career Development

You should begin the resume-building process as soon as you can. The Academic and Career Advisement Center can assist you with career planning, while Career Services will help you fine tune your resume and look for jobs related to your field. In the meantime, the more hands-on experience you have, the better the chances are that you will find a job. Becoming involved in a professional related internship is a way to develop your professional skills and gain experience. Your academic course work is important as well, so be sure to maintain a high grade point average.

Additional Considerations

Clinical Laboratory Technician is an Associate of Applied Sciences requiring 64 credits to complete. This would normally take about four semesters or two years to complete.

This associate degree can also be used to find a career and then return to school. If you wanted to pursue a four year bachelor's degree, you could apply the credit from your associate's degree toward a degree in Clinical Laboratory Science. This would allow for increased salary, an increased level of certification, and increased job responsibilities.

Job Outlook

Clinical Laboratory Technicians are expected to see a 11% job increase in the next ten years. With an increase in patient access to healthcare, the demand for Medical Technicians will continue to grow. Technicians will earn, on average, over \$57,800 a year.

Potential Careers

NMU's Clinical Laboratory Technician Program prepares students for employment in the following

- Medical Lab Technician
- Crime Lab Analyst
- Lab Sales Representative
- Marketing Representative
- Phlebotomist
- State Health Departments

Additional Resources and Information

For Career Planning and Opportunities:
Academic & Career Advisement Center
3302 C.B. Hedgcock
906-227-2971
www.nmu.edu/acac

School of Clinical Sciences
3515 West Science
906-227-2885
www.nmu.edu/clinicalsciences

For Job Search, Resume and Career Information:
Career Services
3302 C.B. Hedgcock
906-227-2800
www.nmu.edu/careers

For Information about NMU Student Organizations Associated with this Major Contact:
Center for Student Enrichment
1206 University Center
906-227-2439
www.nmu.edu/cse

Internet Resource Links:
www.careers.org
www.bls.gov

For Career Information with National Organizations:
www.ascls.org -American Society for Clinical Laboratory Science
www.ascp.org -American Society of Clinical Pathology
www.naacls.org -National Accrediting Agency for Clinical Laboratory Sciences



**NORTHERN MICHIGAN
UNIVERSITY**

The Academic & Career Advisement Center
2022



What to do with
a major in...

Clinical Laboratory Technician

Associate's Degree

