

Lakeland

COMMUNITY COLLEGE

PROGRAM GUIDE

Applied Studies Division

Medical Laboratory Technology

- Associate of Applied Science Degree in Medical Laboratory Technology

Opportunity
starts **HERE**

lakelandcc.edu



Medical Laboratory Technology



Medical laboratory technology, a clinical laboratory science, serves an essential and responsible role in the healthcare system. Physicians rely on laboratory technicians and the results of their analysis to aid them in determining diagnosis, treatment and evaluation of the effectiveness of treatment.

Medical laboratory technicians are an important part of the medical diagnostic team. They perform tests in all areas of the clinical laboratory. A medical laboratory technician performs testing which gives the physician clues as to the absence, presence, extent and causes of disease. This skilled professional utilizes a wide array of intricate precision instruments such as automated analyzers, microscopes and electronic counters. Clinical experiences include rotations in microbiology, parasitology, mycology, urinalysis, immunology, blood banking, hematology, and chemistry.

Career Opportunities

According to the Bureau of Labor Statistics Occupational Outlook Handbook, employment of medical laboratory scientists and medical laboratory technicians is projected to grow 22 percent through 2022, much faster than average for all occupations. An increase in the aging population will lead to a greater need to diagnose medical conditions through laboratory procedures. Motivated medical laboratory technicians go on to earn their bachelor's degree to become eligible to take the certification examination to work as a medical laboratory scientist.

Medical laboratory technicians have numerous choices of practice settings. Hospitals, independent laboratories, clinics, public health facilities and industry currently have positions open for qualified medical laboratory technicians. Additional opportunities are available for medical laboratory technicians in molecular diagnostics, molecular biotechnology companies, invitro fertilization laboratories, research laboratories, and forensic laboratories. In industry, medical laboratory technicians work in product development, marketing, sales, education, and analyzer repair.

Lakeland's Program

Lakeland's medical laboratory technology program is a two-year program leading to an Associate of Applied Science degree in medical laboratory technology. The program combines basic science, general education, medical laboratory techniques, and clinical laboratory experiences. Lakeland students receive personal attention from faculty currently employed in the medical field and gain hands-on training in a simulated hospital laboratory on campus. In addition, the program provides students with 480 clinical training hours at area laboratories.

Lakeland's medical laboratory technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Road, Suite 720
Rosemont, IL 60018
773.714.8880 • naacsls.org

The Lakeland Advantage

- Small class sizes allow for individual instruction.
- This is a two-year program leading to an Associate of Applied Science degree.
- Students gain 16 weeks of clinical experience.
- Graduates are eligible to take the ASCP Board of Registry certifying examination.
- A fast track into the field is available for students who already have a bachelor's degree in biology or chemistry or have already met additional prerequisite courses in the program. Please contact Kathy Davies, medical laboratory technology program director, at kdavies6@lakelandcc.edu to see if you qualify.

Medical Laboratory Technology (9320)

Associate of Applied Science Degree

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Medical laboratory technicians are an important part of the medical diagnostic team. They perform tests in all areas of the clinical laboratory. A medical laboratory technician performs testing which gives the physician clues as to the absence, presence, extent, and causes of disease. This skilled professional utilizes a wide array of intricate precision instruments such as automated analyzers, microscopes, and electronic counters. Clinical experiences include rotations in microbiology, parasitology, mycology, urinalysis, immunology, blood banking, hematology, and chemistry departments in a hospital laboratory.

All students enrolled in this program must complete a criminal background check and drug screening. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining these results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

A minimum GPA of 2.0 and a 'C' grade or higher is required in all medical laboratory technology and general education courses as listed in the curriculum guide for the AAS degree in medical laboratory technology.

Admission Procedures

Students must meet specific admission requirements for this program. Listed below are requirements for admission to the Medical Laboratory Technology Program:

Option 1: High School Option

This option is for current high school seniors or high school graduates who apply to the program within two years of high school graduation.

- Complete college application(s).
- Composite score of 21 or higher on the American College Test (ACT) or combined score of 940 on the Scholastic Aptitude Test (SAT).
- Place into MATH 1330 Statistics for the Health Sciences or higher or pass MATH 0850 Beginning Algebra.
- Complete high school algebra, chemistry, and biology with a 'C' grade or higher.
- An overall high school GPA of 2.5 on a 4.0 scale or equivalent.
- Meet with the program director and counselor to review program prerequisites and requirements.

Upon successful completion of the above criteria, the applicant will be admitted into the program. Students must complete HLTH 1215 Medical Terminology for Health Professions with a 'C' grade or higher prior to enrolling in their first MDLT course.

Option 2: College Option

This option is for students who do not qualify for admission under Option 1.

- Complete college application(s).
- Submit high school transcript as well as any college transcript(s).
- Meet with the program director and counselor to review program prerequisites and requirements.
- Students must have a cumulative GPA of 2.0 or higher in program applicable courses. The following courses, or equivalent courses from other regionally accredited colleges, must be completed with a combined minimum cumulative GPA of 2.5 or higher and a "C" grade or higher.
 - HLTH 1215 Medical Terminology for Health Professions
 - BIOL 2210 Anatomy and Physiology I

NOTE: Students must meet one of these requirements to take BIOL 2210 with a 'C' or higher:











1. High school biology within last five years and high school chemistry.
2. High school biology within last five years and CHEM 1100 Elementary Chemistry.
3. BIOL 1200 Fundamentals of Biology for the Health Technologies


Students are required to take the Math Placement Test and be placed into MATH 1330 Statistics for the Health Sciences or complete MATH 0850 Beginning Algebra with a 'C' grade or higher.

Option 3: Advanced Education Option

Students pursuing this option must have an Associate of Applied Science Degree in Nursing or Allied Health, Bachelor of Science Degree in a natural science, or an Associate of Science Degree. All other Option 2 requirements apply.

Note: Students planning to transfer to a four-year college are encouraged to take ENGL 1120 English Composition II in addition to the following requirements.

Course	Title	Credit Hours
First Semester		
BIOL 2210	Anatomy and Physiology I	4
CHEM 1100	Elementary Chemistry ¹	4
FYEX 1000	First Year Experience	1
MDLT 2150	Hematology and Coagulation 	5
MDLT 2151	Blood Collection Techniques 	1
MDLT 2152	Urinalysis 	1
MDLT 2153	Body Fluid Analysis 	1
Credit Hours		17
Second Semester		
BIOL 2220	Anatomy and Physiology II	4
BIOL 2700	Microbiology	4
ENGL 1110 or ENGL 1111	English Composition I (A) ² or English Composition I (B)	3
MDLT 2250	Clinical Immunology 	3
MDLT 2350	Immunochemistry 	4
Credit Hours		18
Summer		
CHEM 1150 or BIOS 2901	Introduction to Organic Chemistry ³ or Clinical Molecular Diagnostics	4
PSYC 1500 or SOCY 1150	Introduction to Psychology or Principles of Sociology	3
Credit Hours		7
Third Semester		
COMM 1150	Fundamentals of Interpersonal Communications ⁴	2
HLTH 1150	Introduction to Electronic Health Records	1
MDLT 2550	Clinical Chemistry 	5
MDLT 2650	Clinical Microbiology 	5
Credit Hours		13
Fourth Semester		
MATH 1330	Statistics for the Health Sciences (or other college-level mathematics course) ⁵	3
MDLT 2750	Clinical Directed Practicum 	6
MDLT 2850	Medical Laboratory Technology Seminar 	2
Credit Hours		11
Total Credit Hours		66

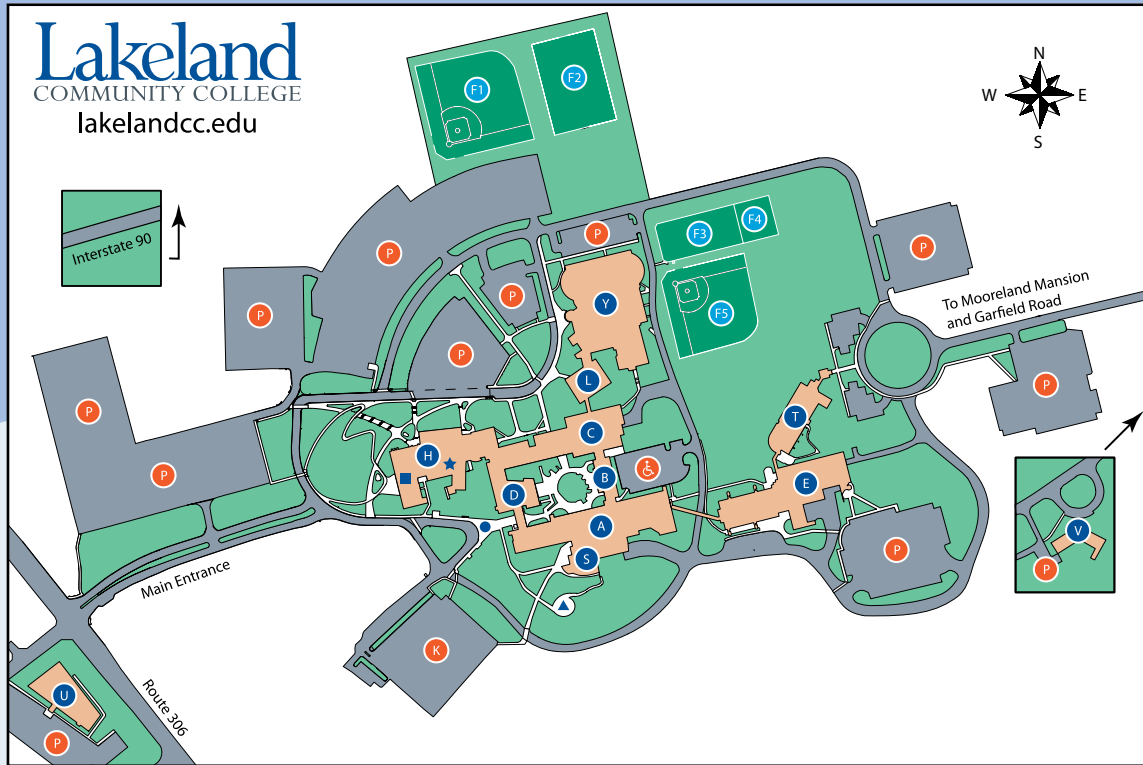
- 1 Students planning to transfer to a four-year college should consider taking MATH 1650 College Algebra, CHEM 1500 General Chemistry I, and CHEM 1600 General Chemistry II and consult with a counselor.
 - 2 English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).
 - 3 CHEM 1150 is recommended for students planning on earning a Medical Laboratory Science degree.
 - 4 Students may substitute COMM 1100 Effective Interpersonal Communications. This 3 credit course may be required for students transferring to a four-year college.
 - 5 Students planning on transferring to a four-year college should take a sequence of math as advised by their counselor.
-  This course is designated as a technical course in the program. Students must earn a 'C' grade or higher in the course to fulfill the college's graduation requirements policy.

NOTES:



NOTES:





CAMPUS MAP

- A** A-Building/
Student Service Center
- B** B-Building
- C** C-Building
- D** D-Building
- E** E-Building
- F1** Baseball Field
- F2** Soccer Field

- F3** Tennis Courts
- F4** Multi-Purpose Court
- F5** Softball Field
- H** H-Building
- K** Faculty Staff Lot
- L** Teaching Learning Center
- P** Parking
- S** S-Building/Breakers Dining
- T** T-Building

- U** Holden University Center
- V** Mooreland Mansion
- Y** Athletic & Fitness Center
- Clocktower
- ★ Dental Hygiene Clinic
- ♿ Handicap Parking
- HIVE
- ▲ Mind Ladders

Quality Education

Professors at Lakeland are experts in their fields with real-world experience. Lakeland prepares you for a high-demand career or for transfer to a four-year college or university. Access to bachelor's and graduate degrees is available on campus from partner institutions through Lakeland's Holden University Center (lakelandcc.edu/uc).

Affordable Tuition

Lakeland's tuition is about one-third the cost of most four-year schools. More than 50 percent of Lakeland students receive some form of financial assistance (lakelandcc.edu/tuition).

Convenience

Lakeland offers convenient day, evening, weekend and online courses (lakelandcc.edu/schedule).

Focus on Students

Lakeland offers a variety of student services to help you succeed, such as counseling, tutoring, computer labs, career services, free parking and affordable child care.

Opportunity starts HERE

Visit us on campus or online. Call 440.525.7900, email recruitmentcenter@lakelandcc.edu or visit lakelandcc.edu/visit for a campus tour.

Apply online: lakelandcc.edu/apply

Accreditation

Lakeland Community College is accredited through the Higher Learning Commission (HLC) and participates in the Academic Quality Improvement Program (AQIP). The Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604-1413, phone: 800.621.7440, hlcommission.org.