

MEDICAL LABORATORY TECHNICIAN, ASSOCIATE IN APPLIED SCIENCE



College(s): MX

Program Code: 0530

The Medical Laboratory Technician (MLT) program prepares students for all functions in the Medical Laboratory (clinical chemistry, coagulation, hematology, immunohematology, immunology, microbiology, and urinalysis). Detailed study of routine test procedures of moderate and high complexity. Graduates of the program will be eligible for certification through the American Society of Clinical Pathologists (ASCP), the American Medical Technologists (AMT) for Medical Laboratory Personnel and other certifying agencies.

Program Requirements

Code	Title	Hours
General Education Coursework		
BIOLOGY 121	Biology I ¹	5
ENGLISH 101	Composition ¹	3
CHEM 121	Basic Chemistry I	4
or CHEM 201	General Chemistry I	
PSYCH 201	General Psychology	3
or SPEECH 202	Interpersonal Communication	
HD	General Education course ²	3
Required Program Core		
BIOLOGY 116	Introduction to Anatomy And Physiology	4
or BIOLOGY 221	Human Structure and Function I and Human Structure and Function II & BIOLOGY 227	
MCROBIO 233	General Microbiology	4

MED LAB 100	Medical Laboratory Techniques	2
MED LAB 110	Urinalysis & Other Body Fluids	3
MED LAB 111	Hematology & Coagulation	4
MED LAB 112	Immunohematology	4
MED LAB 114	Immunology	4
MED LAB 120	Clinical Chemistry	4
MED LAB 125	Clinical Microbiology	4
MED LAB 223	Clinical Practicum: Urinalysis & Body Fluids	1
MED LAB 225	Clinical Practicum: Hematology & Coagulation	3
MED LAB 226	Clinical Practicum: Immunohematology	1.5
MED LAB 227	Clinical Practicum: Immunology	1.5
MED LAB 228	Clinical Practicum: Clinical Chemistry	2
MED LAB 229	Clinical Practicum: Clinical Microbiology	3
MED LAB 233	Clinical Practicum Seminar	1
Total Hours		64

¹ Program prerequisite

² Any Human Diversity (<https://catalog.ccc.edu/hd/>) General Education Course

Pathway

This is an **example course sequence** for students who are pursuing the Medical Laboratory Technician program. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Medical Laboratory Technician.

Semester-by-Semester Program Plan for Full-Time Students

Semester 1		Hours
ENGLISH 101	Composition ¹	3
BIOLOGY 121	Biology I ¹	5
Hours		8
Semester 2		Hours
BIOLOGY 116	Introduction to Anatomy And Physiology ⁴	4
MICROBIO 233	General Microbiology	4
PSYCH 201 or SPEECH 202	General Psychology or Interpersonal Communication	3
Any General Education, Human Diversity Course		3
Hours		14
Semester 3		Hours
MED LAB 100	Medical Laboratory Techniques	2
MED LAB 110	Urinalysis & Other Body Fluids	3
MED LAB 111	Hematology & Coagulation	4
CHEM 121	Basic Chemistry I ^{1,3}	4
Hours		13
Semester 4		Hours
MED LAB 112	Immunohematology	4
MED LAB 114	Immunology	4
MED LAB 120	Clinical Chemistry	4
MED LAB 125	Clinical Microbiology	4
Hours		16
Semester 5		Hours
MED LAB 223	Clinical Practicum: Urinalysis & Body Fluids	1
MED LAB 225	Clinical Practicum: Hematology & Coagulation	3
MED LAB 226	Clinical Practicum: Immunohematology	1.5
MED LAB 227	Clinical Practicum: Immunology	1.5
MED LAB 228	Clinical Practicum: Clinical Chemistry	2
MED LAB 229	Clinical Practicum: Clinical Microbiology	3
MED LAB 233	Clinical Practicum Seminar	1
Hours		13
Total Hours		64

¹ General Education course

³ Students may instead take CHEM 201 General Chemistry I

⁴ This can be replaced with BIOLOGY 226 Human Structure and Function I and BIOLOGY 227 Human Structure and Function II

Choose your courses with your College Advisor.

Program Admission Requirements

- Submit a complete application to the Medical Laboratory Technician (MLT) program
- Provide an official high school transcript or GED certificate showing date of graduation or completion
- Prerequisites:
 - MATH 118 General Education Math eligibility
 - Successful completion of BIOLOGY 121 Biology I with a C or better
 - Successful completion of ENGLISH 101 Composition with a C or better

Students that meet all of the minimum admission requirements listed above will be considered by the program director for admission into the MLT program. Please note that admission

is highly competitive and that not all students who meet these minimum requirements will be admitted. Students are advised to carefully prepare their application, giving special attention to content and format.

For more information on admissions and the application process, visit the [Medical Laboratory Science programs webpage](#).

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (<https://www.ccc.edu/departments/Pages/Career-Services.aspx>).

Medical and Clinical Laboratory Technicians

Job Description

Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$44,276
Median 50 th Percentile	\$73,285
Senior-Level 90 th Percentile	\$106,672

Hourly Wages

Entry-Level 10 th Percentile	\$21
Median 50 th Percentile	\$35
Senior-Level 90 th Percentile	\$51

Annual Job Openings

321 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	4.24%
A certificate	0.44%
Some college	0.91%
An Associate degree	30.90%
A Bachelor's degree	56.40%

A Master's or Professional degree 7.11%
A Doctoral degree or more 0.00%

63.51% continue their education beyond an associate degree