

Medical Laboratory Technology (MLT)

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A medical laboratory technician (MLT) uses laboratory skills, computers, technology, and knowledge of pathology to provide information needed by the physician to diagnose, treat, and prevent disease.

In clinical chemistry, for example, the MLT determines enzyme levels to diagnose a heart attack, glucose levels to monitor diabetes, and cholesterol levels to prevent heart disease. In hematology, the MLT studies blood cells to diagnose anemia and leukemia. In immunohematology, the MLT prepares blood for transfusions. In the microbiology department, the organism causing an infection is identified and antimicrobials for treatment are determined.

The placement rate for co-op assignments and for graduates of the Cincinnati State MLT program is nearly 100%, because of unmet demand for entry-level employees in regional clinical laboratories.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit our Admissions Page (<http://www.cincinnati-state.edu/academics/admission>)

Medical Laboratory Technology (MLT)

Semester 1		Lec	Lab	Credits
CHE 115	General, Organic, and Biological Chemistry	3	3	4
MAT 151	College Algebra	4	0	4
FYE 1XX	First Year Experience Elective (B)	1	0	1
Semester 2				
MLT 100	Introduction to Medical Laboratory Analysis (B)	2	6	4
BIO 151	Anatomy and Physiology 1 (B)	3	2	4
MLT 121	Hematology and Hemostasis 1 (T)	3	3	4
ENG 101	English Composition 1 (G)	3	0	3
Semester 3				
MLT 140	Clinical Chemistry (T)	3	3	4
MLT 170	Instrumentation for Medical Laboratory Technicians (T)	0	3	1
BIO 152	Anatomy and Physiology 2 (B)	3	2	4
ENG 10X	English Composition Elective (G)	3	0	3
MLT 122	Hematology and Hemostasis 2 (T)	2	3	3
Semester 4				
MLT 187	Clinical Chemistry and Urinalysis Applications (T)	0	3	1

MLT 294	MLT Internship: Specimen Collection (T)	0	4	1
MLT 181	Phlebotomy Techniques for MLT (T)	0	3	1
MLT 186	Hematology and Hemostasis Applications (T)	0	3	1
MLT 295	MLT Clinical Internship (T)	0	20	1
Semester 5				
MLT 262	Clinical Microbiology Applications (T)	0	1	1
MLT 210	Clinical Immunology and Serology (T)	2	3	3
MLT 191	Part-Time Cooperative Education 1: Medical Laboratory Technology (T)	1	20	1
PSY 110	Introduction to Psychology (G)	3	0	3
MLT 261	Clinical Microbiology (T)	2	9	5
Semester 6				
MLT 251	Immunohematology (T)	2	5	4
MLT 252	Immunohematology Applications (T)	0	3	1
MLT 270	Medical Laboratory Seminar (T)	0	3	1
MLT 192	Part-Time Cooperative Education 2: Medical Laboratory Technology (T)	1	20	1
Total Credits:		41	122	64

Electives

First Year Experience Elective

FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3

English Composition Elective

ENG 102	English Composition 2: Contemporary Issues	3
ENG 103	English Composition 2: Topics in Literature	3
ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Faculty

Program Chair/Advisor

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