

# Medical Laboratory Technology

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## Medical Laboratory Technology (MLT)

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.

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All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

**Program Prerequisites:** CHE 110 Fundamentals of Chemistry and MAT 150 Intermediate Algebra.

<b>Semester 1</b>		<b>Credits</b>
MLT 100	Introduction to Medical Laboratory Analysis	5
ENG 101	English Composition	3
CHE 111	Bio-Organic Chemistry	4
MLT 121	Hematology and Hemostasis 1	4
BIO 151	Anatomy and Physiology 1	4
<b>Semester 2</b>		
ENG 102	Composition and Argument	3
MLT 122	Hematology and Hemostasis 2	3
MLT 140	Clinical Chemistry	3
BIO 152	Anatomy and Physiology 2	4
MLT 170	Instrumentation for Medical Laboratory Technicians	1
MLT 180	Phlebotomy Techniques and Practice for Medical Laboratory Technicians	2
<b>Semester 3</b>		
MLT 185	Clinical Laboratory Practice	6
<b>Semester 4</b>		
COMM 105	Interpersonal Communication	3
PSY 110	Introduction to Psychology	3
MLT 191	Part-Time Cooperative Education 1: Medical Laboratory Technology	1
MLT 210	Clinical Immunology and Serology	3
MLT 250	Immunohematology	5
<b>Semester 5</b>		
MLT 192	Part-Time Cooperative Education 2: Medical Laboratory Technology	1
BIO 240	Pathophysiology	3
MLT 260	Clinical Microbiology	6
MLT 270	Medical Laboratory Seminar	1
XXX XXX Humanities/ Social Sciences Elective		3
Total Credits:		71

## Electives

### Humanities/Social Sciences Elective

Any ART, CULT, ECO, GEO, HST, LBR, LIT, MUS, PHI, POL, SOC