

# Medical Laboratory Technician (Associate of Applied Science) - Memphis

## Associate of Applied Science

**Contact Hours:** 1,975

**Semester Credits:** 84.5

**Instructional Weeks – Full Time:** 80

**Average Time to Complete – Full Time:** 20 Months

Program offered at: Memphis, Tennessee

## Medical Laboratory Technician (Associate of Applied Science) Mission Statement

The program provides students with training in the classroom and laboratory, as well as real-world experiences that allows them to utilize fully-equipped, professional-grade laboratories. The MLT student will gain the knowledge and skills needed to accurately perform diagnostic testing in all major areas of the laboratory. The program prepares students to successfully complete national certification examinations offered by the American Society for Clinical Pathology (ASCP), American Medical Technologists (AMT), American Association of Bioanalysts (AAB) and state certification examinations (if applicable).

## Learning Objectives / Instructional Outcomes

The program includes general education courses covering mathematics, written, verbal, and nonverbal communications; interpersonal skills; critical thinking; the sciences; and the humanities. Learning objectives include achievement of sufficient theoretical knowledge and practical skills in preparing blood, urine and biological samples for analysis; use of laboratory equipment to detect microorganisms; monitor tests and procedures; analyze chemical content of fluids; and have a working comprehension of the technical aspects of blood banking.

## Career Overview

Medical Laboratory Technicians (MLTs) are an important part of the healthcare team, performing routine clinical laboratory testing procedures to provide scientific information aiding in diagnosis, prognosis and therapeutic treatment of disease. Graduates will find employment in hospital, referral or public health laboratories. This field of study also prepares graduates for employment in research, government and municipal laboratories.

**In order to graduate from the Medical Laboratory Technician (Associate of Applied Science) program, students must successfully complete the following curriculum:**

Course #	Course Title	Theory Hours	Lab Hours	Clinical Hours	Semester Credit Hours
BIOL1301	Anatomy & Physiology	45	0	0	3
BIOL1431	Microbiology	45	30	0	4
ENGL1310	English Composition I	45	0	0	3
CHEM1310	Chemistry	45	0	0	3
COMM1310	Elements of Human Communication	45	0	0	3
SOCI1310	Introduction to Sociology	45	0	0	3
MATH1320	College Algebra	45	0	0	3
MLAB1110	MLT Quality Assurance	15	0	0	1
MLAB1140	Instrumentation	15	0	0	1

MLAB1150	Instrumentation Lab	0	30	0	1
MLAB1210	Laboratory Math	30	0	0	2
MLAB1220	Phlebotomy	15	30	0	2
MLAB1230	Introduction to Medical Lab	15	30	0	2
MLAB1261	Clinical Chemistry Lab	0	60	0	2
MLAB1271	Immunology/Serology Lab	0	60	0	2
MLAB1460	Clinical Chemistry	60	0	0	4
MLAB1470	Immunology/Serology	60	0	0	4
MLAB2111	Hematology Lab	0	30	0	1
MLAB2121	Body Fluids/Urinalysis Lab	0	30	0	1
MLAB2131	Coagulation Lab	0	15	0	0.5
MLAB2220	Body Fluids/Urinalysis	30	0	0	2
MLAB2230	Coagulation	30	0	0	2
MLAB2241	Immunochemistry Lab	0	60	0	2
MLAB2251	Clinical Microbiology Lab	0	60	0	2
MLAB2340	Immunochemistry	45	0	0	3
MLAB2350	Clinical Microbiology	45	0	0	3
MLAB2360	Parasitology/Mycology	45	0	0	3
MLAB2410	Hematology	60	0	0	4
MLAB2970	MLT Clinical I	20	0	360	9
MLAB2980	MLT Clinical II	20	0	360	9
	<b>Total</b>	<b>820</b>	<b>435</b>	<b>720</b>	<b>84.5</b>