

MEDICAL LABORATORY TECHNOLOGY

Associate of Applied Science degree



Program and Career Description:

The Medical Laboratory Technician (MLT) is employed in clinical laboratories of hospitals, clinics, physician's offices and other health care facilities performing a variety of laboratory procedures and diagnostic tests. Laboratory tests are performed on body fluids such as blood which is obtained by the technician through venipuncture.

The MLT works as a bench technician under the direct supervision of a physician and/or medical technologist in the areas of blood banking, clinical chemistry, hematology, microbiology, urinalysis, coagulation, and immunology. The MLT is an integral part of the health care team focus on providing optimum patient care. The technician monitors quality control, performs maintenance on equipment and instruments, applies basic scientific principles to laboratory techniques and procedures, recognizes factors that affect procedures and results taking corrective action when indicated, relates laboratory finding to common disease processes, and interacts with other health care personnel and patients.

How long is the program?

Columbia State's program is designed with a focus on general education/foundation courses Fall/Spring of the first academic year. A new cohort of student will start the intense sequence of core courses each summer for three semester (12 months.)

What does the program provide?

The program provides a competency based classroom and clinical experience which provides students with the tools for licensure examination success, gainful in-field employment, and career satisfaction.

How is the job market?

Starting salaries for certified Medical Laboratory Technicians nationally average \$40,000/year. In Middle Tennessee starting salaries for MLT's range from \$15.00 to \$17.00/hour (\$30,000 - \$34,000/year.)

Check out www.jobs4tn.gov website for information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at www.bls.gov. Visit the [Occupational Outlook Handbook](#) on this website. Salaries are not guaranteed.

www.columbiastate.edu/medlab

Requirements for Graduation include:

- earning 25% of total program credits in residence at Columbia State.
- earn a GPA of at least 2.0 or higher.
- earn a cumulative GPA of 2.0 or higher.
- taking the Exit Exam.

For more information contact:

Lisa Harmon at

lharmon4@columbiastate.edu or 931.540.2706

or

Health Sciences Division office at
healthsciences@columbiastate.edu

or

931.540.2600 or 931.540.2599

Student ID: _____
 Student Name: _____
 Adviser Name: _____

Catalog: 2020-2021 Catalog and Student Handbook
 Program: Medical Laboratory Technology, A.A.S.
 Minimum Credits Required: _____

Medical Laboratory Technology, A.A.S.

Major in Medical Laboratory Technology (A.A.S.)

Sample Academic Plan - Total Credit Hours: 67

Students must be accepted into the Medical Laboratory Technology program before they can register for MLAB courses.
Program Requirements - Students may be required to take additional Learning Support courses. Courses cannot be used more than once to satisfy program requirements.

First Year - Fall Semester - Credit Hours: 14

Course Name	Credits:	Term Taken	Grade	Gen Ed
BIOL 2010 - Human Anatomy and Physiology I *	Credits: 4			
MATH 1530 - Introductory Statistics *	Credits: 3			
ADMN 1306 - Medical Terminology I	Credits: 3			
COLS 101 - Columbia State College Success	Credits: 1			
ENGL 1010 - English Composition I OR ENGL 1020 English Composition II	Credits: 3			

First Year - Spring Semester - Credit Hours: 14

Course Name	Credits:	Term Taken	Grade	Gen Ed
BIOL 2020 - Human Anatomy and Physiology II *	Credits: 4			
BIOL 2230 - Microbiology *	Credits: 4			
² General Education - Humanities/Fine Arts Requirement	Credits: 3			
MLAB 1301 - Intro to Medical Laboratory	Credits: 3			

First Year - Summer Semester - Credit Hours: 12

Course Name	Credits:	Term Taken	Grade	Gen Ed
MLAB 2402 - Hematology	Credits: 4			
MLAB 2403 - Clinical Microbiology	Credits: 4			
MLAB 2202 - Urinalysis/Body Fluids	Credits: 2			
MLAB 2201 - Clinical Immunology	Credits: 2			

Second Year - Fall Semester - Credit Hours: 12

Course Name	Credits:	Term Taken	Grade	Gen Ed
MLAB 2301 - Blood Bank	Credits: 3			
MLAB 1310 - Practicum I	Credits: 3			
MLAB 1320 - Practicum II	Credits: 3			
COMM 2025 - Fundamentals of Communication	Credits: 3			

Second Year - Spring Semester - Credit Hours: 15

Course Name	Credits:	Term Taken	Grade	Gen Ed
MLAB 2310 - Practicum III	Credits: 3			
MLAB 2420 - Practicum IV	Credits: 4			
MLAB 2130 - Seminar I	Credits: 1			
MLAB 2401 - Clinical Chemistry	Credits: 4			
PSYC 1030 - Introduction to Psychology	Credits: 3			

Note(s):

*Biology and Math courses must have been completed no more than five years prior to start of the program.

²**Humanities/Fine Arts Requirement** - Select from ART 1035, ART 2000, ART 2020, ENGL 2160, ENGL 2860, HUM 1010, HUM 1020, MUS 1030, PHIL 1030, PHIL 1040, PHIL 2200, THEA 1030. **Literature Options:** ENGL 2055, ENGL 2130, ENGL 2235, ENGL 2310, ENGL 2320.

Requirements for Graduation Include:

1. Earn 25% of total program credits in residence at Columbia State.
2. Earn a GPA of at least 2.0 in program courses.
3. Earn a cumulative GPA of 2.0 or higher.
4. Take the Exit Exam required by Columbia State.

Students and advisors should run a degree audit from myChargerNet each semester to confirm classes are applicable to the program of study.

For more information contact:

Lisa Harmon, at lharmon4@columbiastate.edu or 931.540.2706

Health Sciences Division office at healthsciences@columbiastate.edu or 931.540.2599 or 931.540.2600

Detailed information is also available via www.columbiastate.edu/medlab