

# Medical Laboratory Technology

The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and transfusion medicine that may be used to maintain health and in the diagnosis or treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance in reporting/recording and interpreting findings involving tissues, blood, or body fluids.

Graduates are eligible to take examinations given by the American Society of Clinical Pathology (ASCP) Board of Certification. Employment opportunities include laboratories in hospitals, physician office laboratories, blood donation centers, industry, and research facilities.

For specific information about potential positions and wages in medical laboratory technology employment, visit the Central Piedmont Career Coach website.

## Medical Laboratory Technology (A45420) Degree Awarded

The Associate in Applied Science Degree - Medical Laboratory Technology is awarded by the College upon completing this program.

### Admissions

- Complete an admissions application to Central Piedmont.
- Submit high school transcripts as well as any college transcripts to Admissions, Records & Registration.
- Take the required placement tests.
- Complete any required Developmental classes with a "C" or better.
- Complete and submit an MLT admissions packet.
- Complete the TEAS test and submit scores with admissions packet. \*Students holding a BS degree are exempt from the TEAS test\*
- Applicants must present evidence of good physical and mental health. A physical examination documenting the applicant's ability to complete all program requirements is required.
- Students must be selected to enter the Medical Laboratory Technology program. Upon acceptance and enrollment in the program, students must take all courses as scheduled and sequenced.
- Continued progression in the program requires a grade of "C" or better in each MLT prefix course each semester.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

### Program Accreditation

The National Accrediting Agency accredits the Medical Laboratory Technology Program for Laboratory Sciences (NAACLS), 5600 N. River Rd., Suite 720, Rosemont, IL 60018-5119. 847.939.3597, 773.714.8880.

### Notes

In addition to tuition and textbooks, this program's costs include uniforms, professional fluid-resistant shoes, fluid-resistant lab coat, safety glasses/

goggles, and a physical examination, including immunizations and drug screening.

To participate in clinical education experiences at health care facilities, students may be required to submit results of a North Carolina state or national criminal background check at their own expense. As a condition of program admission, students may be required to verify that they are United States citizens or are otherwise legally authorized residents of the United States.

### Contact Information

For more information, visit the Medical Careers Laboratory Program website. If further assistance is needed, contact the Program Chair at 704.330.2722 ext. 3425.

#### General Education Requirements

ENG 111	Writing and Inquiry	3.0
PSY 150	General Psychology	3.0
ACA 122	College Transfer Success	1.0
Select 3 credits of the following:		3.0
ENG 112	Writing and Research in the Disciplines	
ENG 113	Literature-Based Research	
ENG 114	Professional Research & Reporting	
Select 3 credits of the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
REL 110	World Religions	
Select 3 credits of the following:		3.0
MAT 143	Quantitative Literacy	
MAT 152	Statistical Methods I	

#### Major Requirements

MLT 110	Introduction to MLT	3.0
MLT 111	Urinalysis & Body Fluids	2.0
MLT 120	Hematology/Hemostasis I	4.0
MLT 130	Clinical Chemistry I	4.0
MLT 140	Introduction to Microbiology	3.0
MLT 240	Special Clinical Microbiology	3.0
BIO 163	Basic Anatomy & Physiology	5.0
CHM 130	General, Organic, & Biochemistry	3.0
CHM 130A	General, Organic, & Biochemistry Lab	1.0
MLT 251	MLT Practicum I	1.0
MLT 266	MLT Practicum II	6.0
MLT 276	MLT Practicum III	6.0
MLT 126	Immunology and Serology	2.0
MLT 127	Transfusion Medicine	3.0
MLT 220	Hematology/Hemostasis II	3.0
MLT 230	Clinical Chemistry II	3.0

MLT 216	Professional Issues	1.0
<b>Total Credits</b>		<b>69</b>

**No diplomas are offered in Medical Laboratory Technology.**

**No certificates are offered in Medical Laboratory Technology.**

**Medical Laboratory Technology Suggested Course Sequence**

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2024-2025 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with your academic advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details. Visit the Academic Advising page for instructions on locating your assigned advisor: <https://www.cpcc.edu/academics/academic-advising>

<b>Term I</b>		<b>Credits</b>
BIO 163	Basic Anatomy & Physiology	5.0
CHM 130	General, Organic, & Biochemistry	3.0
CHM 130A	General, Organic, & Biochemistry Lab	1.0
MLT 110	Introduction to MLT	3.0
MLT 120	Hematology/Hemostasis I	4.0
MLT 126	Immunology and Serology	2.0
ACA 122	College Transfer Success	1.0
<b>Credits</b>		<b>19</b>
<b>Term II</b>		
MLT 127	Transfusion Medicine	3.0
MLT 220	Hematology/Hemostasis II	3.0
MLT 130	Clinical Chemistry I	4.0
MLT 140	Introduction to Microbiology	3.0
MLT 111	Urinalysis & Body Fluids	2.0
<b>Credits</b>		<b>15</b>
<b>Term III</b>		
ENG 111	Writing and Inquiry	3.0
PSY 150	General Psychology	3.0
MLT 251	MLT Practicum I	1.0
MAT 143 or MAT 152	Quantitative Literacy or Statistical Methods I	3.0
<b>Credits</b>		<b>10</b>
<b>Term IV</b>		
MLT 230	Clinical Chemistry II	3.0
MLT 240	Special Clinical Microbiology	3.0
MLT 266	MLT Practicum II	6.0
<b>Credits</b>		<b>12</b>
<b>Term V</b>		
ENG 112 or ENG 114	Writing and Research in the Disciplines or Professional Research & Reporting	3.0
Humanities/Fine Arts		3.0
MLT 216	Professional Issues	1.0
MLT 276	MLT Practicum III	6.0
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>69</b>