

# Medical Laboratory Technology

NURSING & ALLIED HEALTH

636.584.6616

[eastcentral.edu/mlt](http://eastcentral.edu/mlt)



## PROGRAM

The AAS in Medical Laboratory Technology is a one-plus-one degree program, which prepares students to practice. After graduation, students are eligible to take the American Society for Clinical Pathology National Certification Exam. East Central is one of six colleges in the Missouri Health Professions Consortium (MHPC) currently selected to offer the program coordinated through Moberly Area Community College. ECC offers and enrolls students in the general education coursework; sophomore level (professional level) coursework is conveyed to ECC students via virtual classroom instruction, on-campus laboratory instruction in Mexico, Missouri on designated dates, and off-campus clinical rotation experience. Through the combination of general education, professional-level coursework, classroom, laboratory practice and clinical experiences, students learn the profession of Medical Laboratory Technology.



## EMPLOYMENT & SALARY OPPORTUNITIES

As of 2016, the Bureau of Labor Statistics revealed there are 328,200 MLT's in the United States. The median pay for MLT's nationwide is \$50,930 per year.

Career opportunities open to Medical Laboratory Technicians include, but are not limited to:

- Staffing hospital, private, and public health laboratories;
- Specialized positions in hematology, clinical chemistry, clinical microbiology, parasitology, blood banking;
- Research and quality control in industry positions;
- Sales distribution of pharmaceuticals or lab products;
- Technical specialists to teach new procedures and instrumentation.



## CAREER

Professionals employed in the field of medical laboratory technology are an indispensable part of the health care team. Using samples from many kinds of human specimens, laboratorians perform determinations and analysis that physicians use to maintain health or to diagnose and treat disease. Testing involves operating sophisticated instruments, identifying microscopic organisms, using routine testing kits and performing complicated assays. Laboratory work requires technical expertise and attention to detail.

A laboratory professional not only performs the testing but also recognizes disease states. With their specialized training, Medical Laboratory Technicians provide the health care team with the most accurate results available.



## ADMISSION REQUIREMENTS

To enter the program, students must have completed:

- **High school diploma or the equivalent**  
(documentation must be sent to the registration office)
- **Application for admission to ECC**
- **A placement test as specified by the college**  
(some coursework requires minimum placement results)
- **A cumulative college GPA of 2.5 or better**
- **Prerequisites with a "C" or better prior to starting the program**
- **Enrollment in the MHPC Medical Lab Technology program is selective and an information packet with application materials is available online.**

## Program Prerequisites/Gen Ed

*Prior to entering the program, students must complete the following prerequisite coursework and meet the required 2.5 cumulative GPA.*

### Fall Semester

	Hours
• COL*100 Campus Orientation	0.0
• COL*101 Falcon Seminar	1.0
• ENG*101/114 English Comp I or Honors	3.0
• CHM*105 Intro Chemistry Lec & Lab	5.0
• CORE 42 Core 42 Mathematics	3.0
• CORE 42 Core 42 Civics	3.0
• PSC*CIVICS Civics Achievement Exam	0.0
<b>Total:</b>	<b>15.0</b>

### Spring Semester

	Hours
• BIO*206 Human Anatomy & Physiology I Lec & Lab	4.0
• BIO*207 Human Anatomy & Physiology II Lec & Lab	5.0
• varies Elective*	4.0
• varies Elective*	3.0
<b>Total:</b>	<b>16.0</b>

### \*Elective Options

• BIO*205 Microbiology	4.0
• PHL*203 Ethics	3.0
• PSY*101 General Psychology	3.0
• SOC*101 General Sociology	3.0

## Medical Laboratory Technician Program (35 Credit Hours)

### Fall Semester

	Hours
• MLT*150 Intro to Laboratory Science Methods	2.0
• MLT*210 Immunology	3.0
• MLT*250 Hematology & Coagulation	5.0
• MLT*260 Phlebotomy	2.0
• MLT*291 Hematology & Coagulation Practicum	2.0
<b>Total:</b>	<b>14.0</b>

### Spring Semester

	Hours
• MLT*270 Immunohematology	5.0
• MLT*280 Clinical Microbiology	4.0
• MLT*290 Parasitology, Mycology & Virology	1.0
• MLT*293 Clinical Microbiology Practicum	2.0
• MLT*294 Immunohematology Practicum	2.0
<b>Total:</b>	<b>14.0</b>

### Summer Semester

	Hours
• MLT*220 Clinical Chemistry & Urinalysis	5.0
• MLT*292 Clinical Chemistry & Urinalysis Practicum	2.0
<b>Total:</b>	<b>7.0</b>