



Program Map
Medical Laboratory Technician

Degree: Associate of Applied Science (AAS)



HEALTH SCIENCES

Program Description: The Medical Laboratory Technology program prepares students to function as Clinical Laboratory Technicians or Medical Laboratory Technicians in a wide variety of settings from physician office laboratories to modern tertiary care hospitals through classroom study and supervised clinical experience. The curriculum includes study of the formed elements of blood, coagulation mechanisms, analysis of body fluids, blood typing and cross-matching, techniques of sterilization and disinfection, bacterial descriptions and classifications, characteristics of pathogenic fungi and parasites, clinical chemistry analysis, and other aspects of medical laboratory technology. Upon successful completion of the prescribed curriculum, the student is eligible to take an examination for national certification. The program is nationally accredited through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Rd. Suite 720, Rosemont, IL 60018-5119; (773) 714-8880.

Contact:
 Health Sciences
www.austincc.edu/health
Eastview Campus:
 Phone: 512.223.5700
 Toll-free: 888.626.1697
Round Rock Campus:
 Phone: 512.223.0220
 Email: healthsciences@austincc.edu

Department Website:
sites.austincc.edu/health/mlab

ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE MEDICAL LABORATORY TECHNOLOGY PROGRAM. ADMISSION CRITERIA HAVE BEEN ESTABLISHED AND ENROLLMENT IS LIMITED. For information on applying and selection criteria for the MLAB program, please visit the instructional program website at sites.austincc.edu/health/mlab.

Instructional program approval is required to register for any of the second year Medical Laboratory Technology (MLAB) courses.

The student must be enrolled in, or have completed, the following listed prerequisite: NAACLS approved phlebotomy program, or hold certification as a phlebotomy technician, or document eligibility to test for national certification. Eligibility can be determined at www.ascp.org/content/Board-of-Certification/GetCertified#tabs-1. In addition, the student must document completion of CHEM 1305/1105 or equivalent and MLAB 1101 on the degree plan BEFORE submitting an application.

Applicants must provide documentation of immunizations at time of application. Students accepted into the program are required to have a physical examination and verify annual tuberculosis status.

In order to meet requirements of clinical agencies, health insurance, criminal background checks and drug screenings for all Health Sciences students are now required as part of the admissions process.

Program changes may not be reflected in the current ACC Catalog publication. Please access the most up to date information on the program web page at www.austincc.edu/health/ or by contacting the Health Sciences Admissions Offices at Eastview Campus, Room 8356 or Round Rock Campus, Room 3105.

Students working toward admission into the Medical Laboratory Technology program are required to declare General Studies in Pre-Health Sciences Associate of Science degree as their major until they are officially accepted to the program.

All courses in any semester must be completed with a C or better before proceeding to the next semester.

*Use this **Program Map** to choose courses with your college advisor and track your progress towards milestones and completion of program.*

Pre-Degree Requirements		
Program Specific	Mathematics Placement <i>Placements based on TSI</i>	Program Specific
<p><i>Prerequisite Courses must be completed before Semester 3. All classes must be passed with a C or better.</i></p> <p>Apply to the MLT program by the published deadline. Prerequisite courses CHEM 1305, CHEM 1105 and MLAB 1101 grades (above C grade) must be posted in the transcript in order to submit an application.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Basic Developmental Courses <input type="checkbox"/> ESOL Courses <input type="checkbox"/> INRW Courses 	<ul style="list-style-type: none"> <input type="checkbox"/> MATD-0332 - Basic Math Skills <input type="checkbox"/> MATD-042x/032x – ALEKS Sequence <input type="checkbox"/> MATD-0385/0485 – Developing Mathematical Thinking* <i>*Not prerequisite for MATH-1314/1324</i> <input type="checkbox"/> MATD-0370 – Elementary Algebra** <input type="checkbox"/> MATD-0390 – Intermediate Algebra** <i>**Take MATD-0370 and 0390 to prepare for MATH-1314/1324</i>

SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

Plans can be modified to fit the needs of part-time students by adding more semesters

Semester 1 - Prerequisite Fall Semester	CR	Advising Notes
HPRS 1171 - Student Success for Health Professionals	1	
CHEM 1305 - Introductory Chemistry I - Lecture	3	CHEM 1311 may be substituted for CHEM 1305.
CHEM 1105 - Introductory Chemistry I - Lab	1	CHEM 1111 may be substituted for CHEM 1105.
MLAB 1101 - Introduction to Clinical Laboratory Science	1	
PSYC 2301- Introduction to Psychology	3	
PHIL 2306 - Ethics	3	
	12	Program Semester Hours / Meet with your advisor
Semester 2 - Prerequisite Spring Semester		
BIOL 1406 - Cellular and Molecular Biology	4	
MLAB 1231 - Parasitology/Mycology	2	
ENGL 1301 - English Composition	3	
SPCH 1311- Introduction to Speech Communications	3	Speech 1311 with the topic Communication for Healthcare Professionals is recommended.
	12	Program Semester Hours / Meet with your advisor
Semester 3		
MLAB 1415 - Hematology	4	Department approval is required to register for all courses this semester.
MLAB 1227 - Coagulation	2	
MLAB 1335 - Immunology/Serology	3	
MLAB 2360 - Clinical - Clinical/Medical Laboratory Technician I	3	Clinical is Monday-Friday and constitutes 144 hours of time.
MLAB 1311 - Urinalysis and Body Fluids	3	
	15	Program Semester Hours / Meet with your advisor
Semester 4		
MLAB 2431 - Immunohematology	4	Department approval is required to register for all courses this semester.
MLAB 2401 - Clinical Chemistry	4	
MLAB 2461 - Clinical - Clinical/Medical Laboratory Technician I	4	Clinical is Wednesday-Friday and constitutes 384 hours of time.
	12	Program Semester Hours / Meet with your advisor
Semester 5		
MLAB 2534 - Clinical Microbiology	5	Department approval is required to register for all courses this semester.
MLAB 2462 - Clinical - Clinical/Medical Laboratory Technician III	4	Capstone course. Clinical is Wednesday-Friday and constitutes 256 hours of time. ACHIEVEMENT: Associate of Applied Science degree
	9	Program Semester Hours / Meet with your advisor
Total Program Hours: 60		

Please always check online at austincc.edu/catalog or meet with your academic or program advisor to ensure that you are viewing the latest and most accurate information.

Career & Transfer Resources

ACC's Career & Transfer websites provide detailed, guided information on career exploration and transfer.

www.austincc.edu/career

www.austincc.edu/transfer

For further information regarding this specific program, please see the Career & Transfer Resources supplement provided in the next section of this Program Map.

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Career & Transfer Resources Updated 8/18/17

Career Information

Medical laboratory technicians analyze body fluids, tissue, and other substances by performing clinical laboratory procedures.

Medical laboratory technicians perform the following job duties within the clinical laboratory:

- Analyze blood and body fluids, and record normal or abnormal findings
- Study blood samples for use in transfusions by identifying the number of cells, the cell morphology or the blood group, blood type, and compatibility with other blood types
- Operate computerized laboratory instrumentation capable of analyzing several specimens at the same time
- Log data from laboratory tests and enter results into a laboratory information system (LIS)
- Discuss results and findings of laboratory tests with physicians

Common Job Titles

Medical and Clinical Laboratory Technicians, Laboratory Assistant, Laboratory Supervisor, Laboratory Technician, Medical Laboratory Technician (MLT).

Regional Labor Market Information

Medical and Clinical Laboratory Technicians: New workers generally start around \$28,670. Normal pay for Medical and Clinical Laboratory Technicians is \$40,531 per year, while highly experienced workers can earn as much as \$62,307. Over the last year, 60 companies have posted 1,052 jobs for Medical and Clinical Laboratory Technicians in this region. There are currently 805 Medical and Clinical Laboratory Technicians that are employed in Austin-Round Rock, TX.

Source: <https://austincc.emsicc.com/careers/medical-and-clinical-laboratory-technician>

Career and labor market research tools (see Quick Reference Guide at <http://www.austincc.edu/career>):

EMSI: <https://austincc.emsicc.com/>, Bureau of Labor Statistics: <http://www.bls.gov/ooh/>, O*NET: <https://www.onetonline.org/>

Career Resources: ACC's career services website provides information on career exploration and employment at <http://www.austincc.edu/career>. Students are encouraged to consult with their area of study advisor for additional career assistance. The above information is provided as a guide and reference tool for occupations related to this program. This is not a guarantee of job placement in any of these occupations after successful completion of an ACC program. The common job titles listed are representative titles and are provided for career research. These are not the only occupations possible in this area of study.

Transfer Information

The Medical Laboratory Technician Associate of Applied Science prepares students to directly enter the workforce.

Transfer Guides: *The universities listed here do not constitute an ACC endorsement. Transfer course evaluations and determination of which courses will count toward a bachelor's degree are made by the receiving transfer institution.*

Post completion options include:

Austin Community College *Molecular Diagnostics Enhanced Certificate:* http://www.austincc.edu/mlt/md/md_certificate.html

Texas State University *Clinical Laboratory Scientist Programs:* <http://www.admissions.txstate.edu/future/transfer/tpg.html>

The University of Texas Medical Branch- Galveston, TX *Clinical Laboratory Sciences Programs:*

<https://shp.utmb.edu/clinicallaboratorysciences/default.asp>

A Bachelor of Applied Arts and Sciences (BAAS) is a degree option for students in AAS programs who want to transfer and complete a 4-year degree.

Texas State University: <http://www.owls.txstate.edu/undergraduate-degrees/applied-arts-sciences.html>

Texas State University- Round Rock: <http://www.rrc.txstate.edu/prospective/checksheets.html>

Concordia University Texas: <http://www.concordia.edu/academics/college-of-business-and-communication/baas-in-business.html>

Texas A&M University - Central Texas: <https://www.tamuct.edu/degrees/undergraduate/business-management.html>

Texas Tech University: https://www.depts.ttu.edu/universitystudies/prospective_students/baas.php

Additional Transfer Resources: ACC's transfer website provides information on additional colleges & universities:

<http://www.austincc.edu/transferguides>. Students are encouraged to consult with a faculty advisor, area of study advisor, and/or their chosen transfer institution to ensure courses taken at ACC will apply toward their bachelor's degree program.