

MEDICAL LABORATORY TECHNICIAN, AS

Program code: MLTC-AS

Location: Quinebaug Valley

Program Description

The Medical Laboratory Technician (MLT) program at the CT State - Quinebaug Valley Campus prepares the student to work in a clinical laboratory setting. As the student progresses through the program they will obtain the required knowledge that will allow them to work in any of the laboratory departments in a clinical lab. The student will complete instructional courses in Clinical Hematology, Clinical Chemistry, Clinical Microbiology, Immunology, Immunohematology, and Urinalysis/ Body Fluids, as well as the general education-required courses. After completion of the program, the student will graduate with an Associate of Science Degree (A.S.) and be eligible to sit for the National Registry examinations. Graduates are well-prepared to enter the workforce immediately upon graduation and to begin their careers as laboratory professionals.

Learning Outcomes

In addition to General Education Outcomes, students who complete the Medical Laboratory Technician degree will:

1. Apply knowledge of theory and principles related to body fluids, chemistry, hematology, microbiology, immunology, blood bank, and laboratory information systems;
2. Apply knowledge of fundamental biological characteristics related to laboratory testing;
3. Apply principles of performing basic laboratory procedures;
4. Accurately perform venipuncture and capillary puncture procedures;
5. Assess results by correlating laboratory data with clinical or other laboratory data;
6. Evaluate laboratory data to recognize disease states;
7. Prepare and process specimens, equipment, and instruments as well as controls and reagents;
8. Perform with ethical and legal guidelines as well as within the profession's scope of practice.

Graduates of the degree program will be eligible to sit for the MLT American Society for Clinical Pathology (ASCP) national certification exam. Please see the Course of Study for specific information on the program's curriculum.

The Medical Laboratory Technician Program at CT State - Quinebaug Valley Campus is programmatically accredited by the Accrediting Bureau of Health Education Schools (ABHES):

Accrediting Bureau of Health Education Schools
6116 Executive Blvd., Suite 730
North Bethesda, MD 20852
Main: (301) 291-7550
Website: www.abhes.org (<https://www.abhes.org>)
Email: info@abhes.org

Please note, this is a suggested plan of study for a full-time student. Part-time students may have their schedule adjusted accordingly. Students may need additional courses in remedial math and/or English.

Students must meet with their academic advisor prior to registering for any core MLT courses.

Students must earn a C or higher in all MLT courses prior to be eligible for the Clinical Internships. Students are required to show proof of physical examination; Measles, Mumps, and Rubella (MMR), varicella and Hepatitis B immunity; Tetanus shot within past 5 years; and a negative Tuberculosis (TB) test prior to being accepted for any internship courses. Internship sites may require students to undergo a criminal background check.

Degree Requirements

Code	Title	Credits
General Education Courses		
ENG 1010	Composition	3
Choose one of the following:		3
MATH 1002	Math for Science and Technology	
MATH 1003	Descriptive Statistics	
MATH 1010	Intermediate Algebra	
Elective ARHX - Arts & Humanities Course		3-4
BIO 1111	Cell Biology with Organ Systems	4
Elective SBSX - Social / Behavioral Science Course		3
Elective ORAX - Oral Communication Course		3
CCS 1001	College and Career Success	3
Program Courses		
BIO 2350	Microbiology	4
CHEM 1110	Concepts of Chemistry	4
HLTH 1070	Medical Law and Ethics	3
MLT 1001	Introduction to Clinical Laboratory/ Principles of Lab Analysis	3
MLT 1002	Urinalysis and Body Fluids	2
PHLB 1041	Phlebotomy for MLTs	1
MLT 2000	Clinical Hematology and Coagulation	4
MLT 2002	Clinical Chemistry	4
MLT 2004	Clinical Immunology and Immunohematology	4
MLT 2006	Clinical Microbiology	4
MLT 2095	Clinical Internship I	4
MLT 2195	Clinical Internship II	4
Total Credits		63-64