

MEDICAL LAB TECH LAB (MLTL)

MLTL 0047 Phlebotomy Laboratory

Clock Hours: 50

Prerequisites: 18 years of age or older

Corequisites: MLT 0047

Lab Fee: Yes

This is a course designed to give the student practical experience in collecting blood specimens for the purpose of laboratory analysis. Capillary and venipuncture techniques will be performed with emphasis on safety and standard precautions.

MLTL 0048 Phlebotomy Clinical Rotation

Clock Hours: 100

Prerequisites: 18 years of age or older, and MLT 0047 and MLTL 0047 - both courses with a grade of "C" or higher

This course includes actual hospital experience in which students gain proficiency in collecting, transporting, handling, and processing blood specimens for analysis.

MLTL 1046 Core Lab 1: Basic Skills Module

Credit Hours: 1

Prerequisites: Admission into the MLT Program

Lab Fee: Yes

This course is designed to introduce specific skills necessary in the performance of obtaining manual dexterity and proficiency in laboratory procedures.

MLTL 1230 Core Lab 3: Microscopy Module

Credit Hours: 1

Prerequisites: Admission into the MLT Program

Corequisites: MLT 1300

Lab Fee: Yes

This is an intensive microscopy course designed to allow the MLT student to gain proficiency in identifying both normal and abnormal cells and conditions by use of the microscope and computer software in blood, urine, and body fluids.

MLTL 1500 Immunology/Serology Laboratory

Credit Hours: 1

Prerequisites: Admission into the MLT Program

Corequisites: MLT 1500

Lab Fee: Yes

This course is designed to instruct in hands-on principles of immunology and serological procedures including the action of antigens, formation of antibodies, types of immunity, and the methods of immunization involved in the prevention of disease.

MLTL 1525 Immunohematology Laboratory

Credit Hours: 1

Prerequisites: Admission into the MLT Program

Corequisites: MLT 1525

Lab Fee: Yes

This course provides the student practical experience running basic tests performed in a hospital blood bank. Laboratory work will reinforce immunohematology and blood banking concepts.

MLTL 2401 Medical Microbiology Laboratory

Credit Hours: 2

Corequisites: MLT 2401

Lab Fee: Yes

A course designed to give the student practical experience in the isolation and identification of pathogenic organisms. Students will learn to differentiate between normal flora and pathogens.

MLTL 2527 Advanced Immunohematology Laboratory

Credit Hours: 1

Prerequisites: Admission into the MLT Program; MLT 1525 and MLTL 1525 - both courses with a grade of "C" or higher

Lab Fee: Yes

This course is designed to instruct the MLT student to gain proficiency in advanced immunohematology techniques not performed at all transfusion facilities.

MLTL 2760 Core Lab 2: Automation Module

Credit Hours: 1

Prerequisites: Admission into the MLT Program

Corequisites: MLT 1300 and MLT 1610

Lab Fee: Yes

This course is designed to introduce the MLT student to automated methods within the clinical laboratory through the use of available instrumentation in the student lab, supplemented with visits to prospective clinical laboratory sites for observation.

MLTL 2806 Core Laboratory Clinical Rotation

Credit Hours: 5

Prerequisites: Admission into the MLT Program; CHM 1045, CHM 1046, MLT 1040, MLT 1300, MLT 1330, MLT 1610, MLT 2760, MLTL 1046, MLTL 1230, and MLTL 2760 - all courses with a grade of "C" or higher

Corequisites: All of the courses listed under prerequisites may be taken as corequisites as well

This course consists of supervised laboratory rotation in a clinical core laboratory facility.

MLTL 2807 Transfusion Medicine Clinical Rotation

Credit Hours: 1

Prerequisites: Admission into the MLT Program; MLT 1525 and MLTL 1525 - both with a grade of "C" or higher. This course is designed to give the student hospital experience enabling them to gain proficiency in transfusion laboratory testing and build entry-level skills for employment. Patient care and privacy, manipulative skills, quality control, and professionalism will be emphasized.

MLTL 2811 Microbiology and Molecular Clinical Rotation

Credit Hours: 3

Prerequisites: Admission into the MLT Program and CHM 1045, CHM 1046, MLT 1440, MLT 1500, MLT 2401, MLTL 2401, and MLTL 1500 - all courses with a grade of "C" or higher

This course consists of supervised laboratory rotation in a clinical microbiology/molecular laboratory facility.