

MEDICAL LABORATORY TECHNOLOGY

Programs

- Medical Laboratory Technology Associate in Applied Science (<https://catalog.gvltec.edu/school-health-sciences/medical-laboratory-technology/medical-laboratory-technology-aas/>)

Courses

MLT 101 Introduction to Medical Lab Technology (2-0-2)

Offered Fall Semester

Co-requisites: MLT 105, MLT 115, MLT 130

This course provides an introduction to laboratory medicine, including techniques for routine laboratory procedures, medical terminology, safety and an overview of each area within the laboratory.

MLT 105 Medical Microbiology (3-3-4)

Offered Fall Semester

Co-requisites: MLT 101, MLT 115, MLT 130

This course provides a survey of organisms encountered in the clinical microbiology laboratory, including sterilization and disinfection techniques.

MLT 108 Urinalysis & Body Fluids (2-3-3)

Offered Summer Semester

Prerequisites: MLT 110, MLT 120, MLT 205, MLT 230

Co-requisites: MLT 210, MLT 241

This course introduces the routine analysis and clinical significance of urine and other body fluids.

MLT 110 Hematology (3-3-4)

Offered Spring Semester

Prerequisites: MLT 101, MLT 105, MLT 115, MLT 130

Co-requisites: MLT 120, MLT 205, MLT 230

This course provides a study of the basic principles of hematology including hemoglobins, hematocrits, white and red counts and identification of blood cells.

MLT 115 Immunology (2-3-3)

Offered Fall Semester

Co-requisites: MLT 101, MLT 105, MLT 130

This course provides a study of the immune system, disease states and the basic principles of immunological testing.

MLT 120 Immunohematology (3-3-4)

Offered Spring Semester

Prerequisites: MLT 101, MLT 105, MLT 115, MLT 130

Co-requisites: MLT 110, MLT 205, MLT 230

This course introduces the theory and practice of blood banking, including the ABO, Rh and other blood group systems, compatibility testing and HDN.

MLT 130 Clinical Chemistry (3-3-4)

Offered Fall Semester

Co-requisites: MLT 101, MLT 105, MLT 115

This course focuses on the study of nutritional, functional and excretional chemicals in blood and body fluids including testing techniques and clinical significance.

MLT 205 Advanced Microbiology (3-3-4)

Offered Spring Semester

Prerequisites: MLT 101, MLT 105, MLT 115, MLT 130

Co-requisites: MLT 110, MLT 120, MLT 230

This course provides a detailed study of microorganisms and the currently accepted procedures for the identification of these microorganisms in the clinical laboratory.

MLT 210 Advanced Hematology (3-3-4)

Offered Summer Semester

Prerequisites: MLT 110, MLT 120, MLT 205, MLT 230

Co-requisites: MLT 108, MLT 241

This course provides a study of the diseases of blood cells and other hematologic procedures including coagulation.

MLT 230 Advanced Clinical Chemistry (3-3-4)

Offered Spring Semester

Prerequisites: MLT 101, MLT 105, MLT 115, MLT 130

Co-requisites: MLT 110, MLT 120, MLT 205

This course includes advanced theory, principles and instrument techniques used in clinical chemistry.

MLT 241 Medical Lab Transition (2-3-3)

Offered Summer Semester

Prerequisites: MLT 110, MLT 120, MLT 205, MLT 230

Co-requisites: MLT 108, MLT 210

This course correlates laboratory procedures and concepts with emphasis on higher level cognitive applications.

MLT 251 Clinical Experience I (1-12-5)

Offered Fall Semester

Prerequisites: MLT 108, MLT 210

Co-requisite: MLT 252

This course provides an integrated, clinically based rotation, which correlates cognitive and technical skills in selected areas of the clinical laboratory.

MLT 252 Clinical Experience II (1-12-5)

Offered Fall Semester

Prerequisites: MLT 108, MLT 210

Co-requisite: MLT 251

This course provides an integrated, clinically-based rotation which correlates cognitive and technical skills in selected areas of the clinical laboratory.

MLT 253 Clinical Experience III (1-12-5)

Offered Spring Semester

Prerequisites: MLT 251, MLT 252

Co-requisite: MLT 254

This course provides an integrated, clinically based rotation, which correlates cognitive and technical skills in selected areas of the clinical laboratory.

MLT 254 Clinical Experience IV (1-12-5)

Offered Spring Semester

Prerequisites: MLT 251, MLT 252

Co-requisite: MLT 253

This course provides an integrated, clinically based rotation, which correlates cognitive and technical skills in selected areas of the clinical laboratory.