

MEDICAL LABORATORY TECHNOLOGY (MLT)

MLT1022 INTRODUCTION TO MEDICAL TECHNOLOGY (2.00 Credits)

An introduction to the basic principles, techniques, and vocabulary applicable to medical laboratory technology. Emphasizes specimen collection and preservation; urinalysis and clinical microscopy; phlebotomy; introduction to serology; and lab information systems.

Total Contact Hrs: 32.00

Lecture Hrs: 32.00

MLT1022L INTRODUCTION TO MEDICAL TECHNOLOGY LAB (1.00 Credits)

The laboratory develops laboratory skills related to the basic techniques in medical laboratory technology. Emphasizes specimen collection and preservation; urinalysis and clinical microscopy; phlebotomy; introduction to serology; and lab information systems.

Total Contact Hrs: 16.00

Lab Hrs: 16.00

MLT1040 PHLEBOTOMY (1.00 Credits)

This course is a study of methods of obtaining blood specimens for laboratory analysis. Topics include phlebotomy equipment; venipuncture and skin puncture techniques; infection control; quality assurance; and professional, ethical, and legal considerations related to blood drawing.

Total Contact Hrs: 16.00

Lecture Hrs: 16.00

MLT1044L PHLEBOTOMY CLINICAL (1.00 Credits)

This course consists of supervised activities in obtaining blood specimens for laboratory analysis. Topics include appropriate use of phlebotomy equipment; venipuncture and skin puncture techniques; infection control; and quality assurance.

Total Contact Hrs: 16.00

Clinical Hrs: 16.00

MLT2362 HEMATOLOGY AND BODY FLUID ANALYSIS (4.00 Credits)

This course is an introductory study of the classification and function of blood cells and clotting proteins in health and disease. Major topics include cell identification, anemias, leukemias, hemostasis and thrombosis, and urine and body fluid analysis.

Total Contact Hrs: 64.00

Lecture Hrs: 64.00

MLT2362L HEMATOLOGY AND BODY FLUID ANALYSIS LAB (2.00 Credits)

This laboratory develops laboratory skills related to the classification, maturation, morphology and function of blood cells and clotting proteins in health and disease. Major skills include review of CBC slides, cell identification, anemias, leukemias, hemostasis and thrombosis, and urine and body fluid analysis.

Total Contact Hrs: 32.00

Lab Hrs: 32.00

MLT2400 MEDICAL MICROBIOLOGY (4.00 Credits)

Principles and methods used in clinical microbiology including isolation, identification, and antibiotic susceptibility testing of pathogenic bacteria. Introduction to medical parasitology, mycology, and virology.

Total Contact Hrs: 64.00

Lecture Hrs: 64.00

MLT2400L MEDICAL MICROBIOLOGY LABORATORY (3.00 Credits)

The laboratory develops laboratory skills related to clinical microbiology including isolation, identification, and antibiotic susceptibility testing of pathogenic bacteria. Develops the technical and critical thinking skills used to evaluate clinical microbiology specimens.

Total Contact Hrs: 48.00

Lab Hrs: 48.00

MLT2530 IMMUNOLOGY/IMMUNOHEMATOLOGY (4.00 Credits)

This is a study of immunology, serology, blood banking and transfusion medicine principles and procedures. Antigens, antibodies, and the functions of the immune response are examined in detail.

Total Contact Hrs: 64.00

Lecture Hrs: 64.00

MLT2530L IMMUNOLOGY/IMMUNOHEMATOLOGY LAB (2.00 Credits)

This laboratory develops laboratory skills related to immunology, precipitation reactions, agglutination, labeled immunoassays, serology, blood banking and transfusion medicine principles and procedures. Antigens, antibodies, and the functions of the immune response are demonstrated in detail.

Total Contact Hrs: 32.00

Lab Hrs: 32.00

MLT2807L IMMUNOHEMATOLOGY CLINICAL PRACTICUM (3.00 Credits)

This course consists of an internship at a sponsoring serology and blood bank laboratory clinical site. Supervised activities in areas of blood and body fluid immunologic analysis are meant to enhance the student's medical laboratory knowledge base with emphasis on professionalism, safety, problem-solving, and quality assurance.

Total Contact Hrs: 48.00

Clinical Hrs: 48.00

MLT2809L HEMATOLOGY CLINICAL PRACTICUM (3.00 Credits)

This course consists of an internship at a sponsoring hematology laboratory clinical site. Supervised activities in areas of blood and body fluid immunologic analysis are meant to enhance the student's medical laboratory knowledge base with emphasis on professionalism, safety, problem-solving, and quality assurance.

Total Contact Hrs: 48.00

Clinical Hrs: 48.00

MLT2810L CLINICAL CHEMISTRY PRACTICUM (3.00 Credits)

This course consists of an internship at a sponsoring chemistry laboratory clinical site. Supervised activities in areas of blood and body fluid immunologic analysis are meant to enhance the student's medical laboratory knowledge base with emphasis on professionalism, safety, problem-solving, and quality assurance.

Total Contact Hrs: 48.00

Clinical Hrs: 48.00