

# CLINICAL LABORATORY SCIENCES (CLS)

## CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours

Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

## CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours

Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

## CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour

Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

## CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour

Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

## CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour

Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

## CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour

Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

## CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours

Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

## CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours

Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

## CLS 49022 URINALYSIS: THEORY 1 Credit Hour

Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

## CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour

Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

## CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours

Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

## CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours

Applied and practical consideration of laboratory methods for the administration of blood and its components.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

## CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour

Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours**

Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour**

Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.

**Prerequisite:** Medical Laboratory Science major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter-IP