

Master Syllabus

CLT 2310 - Clinical Chemistry

Division: Health Sciences

Department: Clinical Laboratory Technology

Credit Hour Total: 3.0

Lecture Hrs: 2.0 **Lab Hrs:** 4.0

Prerequisite(s): ALH 2220AND CHE 1321OR CHE 1221

Other Prerequisite(s): AND Restricted to Majors

Date Revised: November 2017

Course Description:

The course will introduce the students to the theory and application of human biochemistry and principles of chemistry techniques used in the analysis of blood and other body fluids. Two classroom, four lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Reagent Preparation

Describe reagent preparation and use

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Chemistry Specimens for Analysis

Describe specimens for chemistry lab analysis

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Accuracy

Define speed and accuracy in the analysis of chemistry specimens

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Principles of the Procedures

Present the physiological basis for the test, the principle and procedure for the test, and the clinical significance of the test results

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Spectrophotometric

Define the use of color spectrophotometric in chemistry lab test analysis

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Quality Control

Discuss quality control results and note trends, shifts and invalid results

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Trends in Clinical Chemistry

Discuss recent trends in clinical chemistry

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on assessment tool

Outline:

Reagent preparation and use

Chemistry specimens for analysis

Speed and accuracy in the analysis of chemistry specimens

Principles of the procedures

Color spectrophotometric

Quality control

Recent trends in clinical chemistry.