

## 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 1321

**Other Prerequisite(s):** AND Restricted to Majors

**Date Revised:** June 2016

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### 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.