Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

CLT 2310 - Clinical Chemistry

Division: Health Sciences

Department: Allied Health

Credit Hour Total: 2.0 **Lecture Hrs:** 1.0 **Lab Hrs:** 2.0

Prerequisite(s): CHE 2111

Other Prerequisite(s): AND Restricted to Majors

Date Revised: May 2013

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. One classroom, two lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving

Course Outcomes:

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

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

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.