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

Master Syllabus

CLT 2110 - Urine & Body Fluid Analysis

Division: Health Sciences

Department: Clinical Laboratory Technology

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 provide instruction on the structure and function of the kidney, renal pathology and the principles, sources of error and interpretation of test results in urinalysis. Principles of CSF and serous fluid analysis are covered. One classroom, two lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving

Course Outcomes:

Quality controls and assessment of the results
Identify variables effecting the test results, and correlation of test results with clinical findings and significance.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on the assessment tool

Function of kidney and renal pathology
Describe renal anatomy, physiology, and urine formation.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on the assessment tool

Specimen collection methods and preservation
Describe appropriate safety and preservation techniques in collection of urine and body fluid specimens.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on the assessment tool

Urine Physical characteristic examination
Outline the process of the routine urine examination, including physical, chemical, and microscopic.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on the assessment tool

Principle of urine chemical analysis
Explain the chemical parameters on the dipsticks including: urinary PH, protein, glucose, ketone, nitrite, and leukocyte esterase.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on the assessment tool

Body fluid composition
Describe body fluid composition, collection, cell count, and crystal identification.

Assessment Method: Locally developed exams
Performance Criteria:

70% or better on the assessment tool

Outline:

Function of kidney and renal pathology

Specimen collection methods, and preservation

Physical characteristic examination

Principle of Chemical analysis

Body fluid composition

Quality controls and assessment of the results