

## 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):** CLT 1200AND BIO 1222

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

**Date Revised:** February 2016

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### 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 Competency

### Course Outcomes:

#### 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

#### 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

#### 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