

## Master Syllabus

### CLT 2210 - Hematology

**Division:** Health Sciences

**Department:** Clinical Laboratory Technology

**Credit Hour Total:** 4.0                      **Lecture Hrs:** 3.0 **Lab Hrs:** 3.0

**Prerequisite(s):** ALH 2220AND BIO 1171

**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 practical application of routine and special hematology procedures, both manual and automated; red blood cells and white blood cells maturation sequences, and normal and abnormal morphology and associated diseases. Three classroom, three lab hours per week.

### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### Leukocyte morphology

Compare normal and abnormal leukocyte morphology and related diseases.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on assessment tool

#### Applications of hematology procedures

Describe routine hematology procedures to include a CBC and peripheral smear evaluation.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on assessment tool

#### Basic hematology

Describe the basic laboratory techniques used in the hematology lab.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on assessment tool

#### Hematology procedures

Identify principles and procedures of hematology tests to include sources of error and clinical significance of results.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on assessment tool

#### Erythrocyte morphology

Compare normal and abnormal erythrocyte morphology and related diseases.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on assessment tool

### Outline:

Basic laboratory techniques used in hematology

Principles and procedures of hematology testing

Normal and abnormal erythrocyte morphology and related diseases

Normal and abnormal leukocyte morphology and related diseases

Practical application of routine and special hematology procedures