

# Minnesota State College Southeast

## MEDL 2105: Hematology 2

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite  
MEDL 1121 - Hematology 1

Corequisites: None

MnTC Goals: None

This course is a continuation of Hematology 1 and explores the development of hematological disorders. Emphasis is placed on correlation of laboratory findings and disease states. Students will be introduced to special hematology stains and procedures. Students will gain experience in a simulated clinical Hematology laboratory. (Prerequisite: MEDL1120. Must be a Medical Laboratory Technician accepted student) (3 credits: 2 lecture/1 lab)

**B. COURSE EFFECTIVE DATES:** 05/07/2012 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Correlate hematological results to disease states
2. Discuss the mechanisms for anemias, hemoglobinopathies, thalassemias, leukemias, and lymphomas
3. Examine the causes for nonmalignant leukocyte disorders
4. Describe the malignant leukocyte disorders
5. Develop proficiency in abnormal cell identification
6. Utilize effective oral and written communication skills

### D. LEARNING OUTCOMES (General)

1. Define anemia and leukemia
2. Compare and contrast the various forms of anemia
3. Predict the type of anemia based on the red blood cell indices
4. Discuss hemoglobinopathies and thalassemias
5. Examine the nonmalignant leukocyte disorders
6. Describe the leukocyte neoplasms
7. Compare and contrast the various forms of acute and chronic leukemia
8. Evaluate the automated parameters seen in patients with anemia and leukemia
9. Correlate automated results with manual examination of peripheral blood films
10. Identify abnormal red blood cell and white blood cell morphology and inclusions
11. Perform abnormal manual cell differentials
12. Adopt proper policies and procedures provided to complete hematological testing in the laboratory setting
13. Demonstrate the skills and abilities needed to independently perform hematological laboratory procedures
14. Participate in assimilation laboratory experience

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted