

Bemidji State University

BIOL 3300: Introduction to Hematology

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Introduction to the principles of blood cell formation, function, and associated disorders. Lecture and Laboratory. Prerequisites: BIOL 1400, CHEM 2211, and CHEM 2212. BIOL 2360 or BIOL 3380 is recommended.

B. COURSE EFFECTIVE DATES: 08/26/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Introduction to normal and abnormal hematology
2. Basic techniques related to the hematology lab
3. Exposure to routine analyses in the clinical lab

D. LEARNING OUTCOMES (General)

1. Identify blood smears for blood cell types, including mature white blood cells, erythroid precursors, myeloid precursors, and lymphoid precursors
2. Analyze complete blood counts (CBC) in regards to reference values for the diagnosis of different conditions
3. Identify several neoplastic conditions and anemia classifications based upon general knowledge, smears and CBCs, and other possible parameters
4. Evaluate safety considerations within a clinical laboratory setting

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted