

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. MDLT

COURSE NUMBER: 1130

NUMBER OF CREDITS: 3

Lecture: 2 Lab: 1 OJT: 0

Course Title:

Hematology I

Catalog Description:

Hematology I is the first part of a two-part course in Hematology, the study of diseases in the blood. Students will begin with a basic study of the blood cells called hematopoiesis. Students will study the disease processes that occur in the white blood cells of the blood with emphasis on benign white blood cell disorders, leukemia, and lymphoma.

Prerequisites or Necessary Entry Skills/Knowledge:

MDLT 1100

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered

Safety and infection control

Specimen collection

Microscopy

Hematopoiesis with emphasis on leucopoiesis

Routine testing in Hematology

Examination of peripheral blood smears

Bone marrow overview

Nonmalignant Alterations of Leukocytes

Leukemia

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|---------------------------|
| Lymphomas |
| Myelodysplastic syndromes |

Student Learning Outcomes

Improve phlebotomy skills, including enhancement of communication skills and teamwork.

Describe, define, and evaluate basic principle of hematology as it relates to hematopoiesis; focusing on white blood cells.

Apply principles of safety, quality assurance, and quality control in Hematology.

Define benign leukocyte disorders and lymphomas.

Evaluate normal and abnormal white blood cell morphology with associated diseases.

Demonstrate proficiency in the skills necessary to perform blood cell counts, and evaluation of blood elements within stated limits of accuracy.

Is this course part of a transfer pathway: Yes No

***If yes, please list the competencies below**

Revised Date: 3/29/2022