

**SOUTHEAST COMMUNITY COLLEGE
HEALTH SCIENCES DIVISION
MEDICAL LABORATORY TECHNOLOGY
Revision Date: 11/2025**

I. CATALOG DESCRIPTION

Course Number: MEDT 1160
Course Title: Hematology 1
Prerequisites: MEDT 1100, MEDT 1150

Catalog Description: Study of the cellular constituents of blood, both normal and abnormal. Study of normal hemostasis, including clotting factors, fibrinolysis, and oral anticoagulants Identification of normal and abnormal cellular constituents of the blood. Skills and laboratory techniques corresponding to theoretical information presented in the lecture. Laboratory is concurrent with lecture.

Credit Hours: 3
Class Hours: 30
Lab Hours: 45
Total Contact Hours: 75

II. COURSE OBJECTIVES: *Course will:*

1. Describe the field of hematology.
2. Explain and discuss the theory of hematopoiesis.
3. Outline normal and abnormal blood cell morphology.
4. Discuss hemostasis and fibrinolysis.
5. Explain oral anticoagulants.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Describe hematopoiesis.
2. Describe and explain the maturation sequence of red blood cells, white blood cells, and platelets.
3. Identify the different types of blood cells in their maturation sequence.
4. Discuss the characteristics and functions of each of the blood cells.
5. Describe the normal and abnormal morphology of each of the blood cells.
6. Assess the statistical parameters of routine hematological testing.
7. Discuss the theory of hemostasis.
8. List and describe the coagulation factors.
9. List and describe the natural inhibitors.
10. Discuss fibrinolysis.

B. GENERAL EDUCATION LEARNING OUTCOMES

1. GELO #3: Critical Thinking & Problem Solving

Collect, identify, interpret and analyze data.

Evaluate the validity of arguments, alternatives, data, outcomes, and/or impacts of actions.

IV. CONTENT/TOPICAL OUTLINE (*course outline may provide more detailed information*)

A. UNITS

- 1. HEMATOPOIESIS**
- 2. ERYTHROPOIESIS**
- 3. LEUKOPOIESIS**
- 4. THROMBOPOIESIS**
- 5. COAGULATION**

INSTRUCTIONAL MATERIALS

A. Required text(s):

Turgeon, Mary L. *Clinical Hematology Theory & Procedures*. (current edition)
Carr, J. *Clinical Hematology Atlas*. (current edition)

B. Other Required Resources:

Packet of handouts

V. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. In-person and recorded lectures and videos
2. In-person and recorded laboratory demonstrations and videos
3. Hands-on activities
4. Role play
5. Online resources
6. Guest presentations
7. Case studies

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination assignments, quizzes, exams, projects, laboratory competencies, etc. For grading expectations please see the course information document.

SCC STANDARD GRADING SCALE POLICY:

A+	95-100	C+	75-79
A	90-94	C	70-74
B+	85-89	D+	65-69
B	80-84	D	60-64
		F	Below 60

VIII. SPECIFIC COURSE REQUIREMENTS

A. ATTENDANCE

Attendance is crucial to the success of this course. The attendance policy can be found in the MLT Student Handbook.

B. OTHER

Please see the Course Information Document for course policies related to grading, expectations, assignments, assessment, and participation.