

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: MLT 230
Course Name: Hematology/Coagulation
Credits: 4
Contact Hours: 2 lecture; 4 lab

Course Description: This course will present basic and advanced hematology theory and disease correlations. Differentials, cell morphology, and hematological measurements will be discussed. Hemostasis theory and application of the coagulation pathway including factors will be presented. Microscope work, automated hematological instrumentation, and coagulation testing will be emphasized.

Prerequisites: HC 114

Grade Requirement: A minimum grade of C must be earned in this course to be eligible to graduate from the Medical Laboratory Technician Program and to progress to the MLT clinical practicum.

Textbooks: <http://bookstore.wdt.edu/>

Materials: None

Student Learning Outcomes:

- Describe blood cell production, structure and function
- Evaluate blood cells and body fluids using manual and automated testing
- Perform peripheral blood examination and correlate results with clinical conditions
- Correlate lab results with blood cell disorders
- Define hemostasis and the stages of coagulation

Assessment: The core abilities of life skills, analytical skills, communication skills, technology skills, teamwork techniques, and employability will be assessed throughout this course.

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