



Course Description

MLT1300L | Clinical Hematology Laboratory | 2.00 credits

Manual and automated procedures in hematology. This includes blood cell counts and other basic hematologic procedures in the simulated laboratory and in the clinical setting. Corequisite: MLT1300.

Course Competencies:

Competency 1: The student will demonstrate understanding of the principals involved in Safety and quality control procedures used in the laboratory procedures by:

1. Identifying laboratory safety as described in the OSHA including instructions in standard precautions
2. Understanding and evaluate appropriate quality control procedures as needed to ensure the accuracy of all reported hematologic test results
3. Understanding how equipment maintenance, corrective actions and troubleshooting defective equipment affect test results

Competency 2: The student will demonstrate understanding of the origin of blood and blood products and its applications by:

1. Evaluating the process of hematopoiesis
2. Identifying and describing classic morphologic characteristics of maturation for the erythrocytes, leukocytes, and thrombocytes
3. Interpreting stained peripheral blood and analyzing abnormal smears to identify common anemias and Leukemias

Competency 3: The student will an understanding of Hematological applications and instrumentation by:

1. Recognizing proper specimens for analysis in hematology
2. Explaining the analytical principles and diagnostic utility of hematological laboratory testing
3. Evaluating laboratory results and correlating clinical data to identify common hematological conditions and diseases

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of diverse cultures, including global and historical perspectives
- Create strategies that can be used to fulfill personal, civic, and social responsibilities
- Use computer and emerging technologies effectively