

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY MDL 276 - CLINICAL HEMATOLOGY TECHNIQUES (3 CR.)

Course Description

Stresses performing hematological and coagulation methods and operation of typical instrumentation in a clinical laboratory or simulated laboratory setting. Clinical 9 hours per week.

General Course Purpose

In conjunction with lecture courses in clinical hematology, the purpose of this course is to provide entry level competency needed for employment in an accredited clinical laboratory.

Course Prerequisites/Corequisites

Students must be enrolled in the first-year summer semester of the Medical Laboratory Technology AAS program or receive program director approval.

Prerequisites: MDL 125 and MDL 225 with a grade of "C" or better.

Course Objectives

Upon completing the course, the student will be able to:

- Receive and process specimens for hematology analysis.
- Demonstrate safe operation of routine hematology analyzers including routine start-up, reagent preparation, and basic preventive maintenance.
- Apply the principles of quality assurance to the analysis and evaluation of hematology results.
- Correlate hematology results with representative disease states.
- Record and communicate results clearly and accurately.
- Demonstrate personal characteristics which are consistent with those of a desirable employee in the clinical chemistry laboratory.
- Compare manual peripheral slide evaluation with instrument parameters
- Perform manual hematology procedures
- Perform basic coagulation procedures.

Major Topics to be Included

Hematology/Coagulation procedures

Specimen processing

Quality control/assurance

Routine operation and daily maintenance of automated equipment

Supervised evaluation and reporting of results