Course Description

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

General Course Purpose

This course will give the student the opportunity to perform the hematological techniques learned in MDL 120 in an accredited clinical setting.

Course Prerequisites/Co-requisites

Students must have completed MDL 127 with grades of "C" or better and be enrolled in the first year, 3rd summer term, of the Medical Laboratory Technology AAS program.

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 procedures
- Coagulation procedures
- Specimen processing
- Organizational policies in hematology and coagulation
- Quality control