Course Description

Deals with performing techniques, procedures, and interpretations in Blood Banking in a clinical laboratory. Clinical 12 hours per week.

General Course Purpose

This course will give the student an opportunity to perform and interpret routine blood banking procedures and correlate serological concepts.

Course Prerequisites/Co-requisites

Students must have completed MDL 215 and MDL 216 with a grade of "C" or better and be enrolled in the second year of the Medical Laboratory Technology AAS degree program.

Course Objectives

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

- Perform typing and compatibility of blood within a reasonable length of time
- Demonstrate safe operation of blood bank instruments including routine start-up, reagent preparation, and preventive maintenance.
- Keep accurate records of all procedures performed in the blood bank
- Identify normal antibodies using the procedures available
- Demonstrate ability to solve problems resulting from blood incompatibilities
- Participate in quality assurance
- Demonstrate confidence in their ability to perform routine blood banking procedures.
- Select and release correct blood products based on type and condition.
- Apply serological therapy to immunohematology

Major Topics to be Included

- Blood Bank Organizational Policies
- Instrumentation
- Blood procurement procedures
- Quality control
- Routine Blood Bank procedures
- Special Blood Bank procedures
- Component preparation and processing
- Problem solving methods