Course Description

Includes performing of clinical chemistry methodologies and operation of typical instrumentation in a clinical laboratory. Laboratory 9 hours per week.

General Course Purpose

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

Course Prerequisites/Co-requisites

Students entering this course must have completed MDL 261 with a grade of "C" or better and be enrolled in the first year, 3rd summer term, of the Medical Laboratory Technology A.A.S. degree program.

Course Objectives

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

- Receive and process specimens for clinical chemical analysis.
- Demonstrate safe operation of routine clinical chemistry analyzers including routine start-up, reagent preparation, and basic preventive maintenance.
- Apply the principles of quality assurance to the analysis and evaluation of clinical chemistry results.
- Correlate results of various chemical analyses to evaluate results and describe typical 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.

Major Topics to be Included

- Specimen processing
- Routine operation and daily maintenance of automated equipment
- Quality control
- Supervised evaluation and reporting of results