

## **NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY MDL 266 - CLINICAL CHEMISTRY TECHNIQUES (3 CR.)**

### **Course Description**

Includes performing of clinical chemistry methodologies 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 chemistry, the purpose of this course is to provide entry level competency needed for employment in an accredited clinical laboratory.

### **Course Prerequisites/Corequisites**

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

Prerequisites: MDL 260 and MDL 263 with a grade of "C" or better.

### **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**

Clinical Chemistry procedures

Specimen processing

Quality control/assurance

Routine operation and daily maintenance of automated equipment

Supervised evaluation and reporting of results