

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY MDL 278 - CLINICAL MICROBIOLOGY TECHNIQUES II (4 CR.)

Course Description

Includes performing of techniques, procedures, and identification of microorganisms in a clinical laboratory or simulated laboratory setting. Laboratory 12 hours per week.

General Course Purpose

In conjunction with lecture courses in clinical microbiology, 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 second year of the Medical Laboratory Technology AAS degree program or receive program director approval.

Prerequisites: MDL 130 and MDL 251 with a grade of "C" or better.

Course Objectives

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

- Demonstrate safe operation of microbiology instruments including routine start-up, reagent preparation, and preventive maintenance.
- Perform the laboratory techniques necessary for handling clinical specimens containing pathogenic and nonpathogenic microorganisms including media selection
- Perform biochemical and biological techniques necessary for the identification of the microorganisms encountered during his training.
- Utilize flow charts and reference materials for the identification of the micro-organisms.
- Perform and interpret the results of antibiotic sensitivity testing
- Use current procedure and terminology for reporting laboratory results to the hospital staff.
- Keep accurate records of all specimens, tests performed and results of these tests.

Major Topics to be Included

Routine microbiology procedures

Routine operation and daily maintenance of automated equipment

Quality control/assurance

Evaluation and reporting of results