

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: MDL 290

Credits: 2

Course Title: Coordinated Practice in Microbiology

Course Description: (as it should appear in the catalog)

Provides supervised on-the-job training in a clinical microbiology laboratory. Includes skill development and evaluation of culture and sensitivity technique for various patient specimens, identification of numerous pathogens, analyzing data and formulating reports, performing and analyzing quality control measures and troubleshooting test parameters. Prerequisites: successful completion of the first four semesters of the MDL curriculum and program permission to enroll in this class. Co-requisite: MDL 281. Laboratory 40 hours per week for three weeks.

General Course Purpose:

This course provides students with clinical experience in Microbiology. Clinical instruction is generally 5 days per week, 8 hours/ day, during standard daytime shifts, as assigned by the clinical facility.

The purpose of this clinical is to provide students with hands-on experience identifying various pathogens in patient specimens. Students will directly apply experiences to their future employment. Students will have the opportunity to demonstrate job entry competency and gain confidence in their own abilities.

Course Prerequisites/Co-requisites:

Students must have successfully completed the first four semesters of the MDL curriculum and have program permission to enroll in this class. Co-requisite: MDL 281.

Course Objectives:

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

- a. Demonstrate consistent safe practice within industry level safety standards.
- b. Perform routine culture and sensitivities of adult, infant, and geriatric patient samples.
- c. Demonstrate job entry-level precision and accuracy in performing procedures.
- d. Analyze and record test and quality control data within industry level accuracy standards.
- e. Distinguish reportable vs. not reportable test results using established industry criteria.
- f. Troubleshoot non-reportable test results.
- g. Formulate accurate reports within industry level reporting parameters.
- h. Exhibit patient confidentiality within HIPAA parameters.
- i. Discuss laboratory testing in terms of theory, technique, quality control, and interpretation.

Major Topics to be Included:

- a. Patient identification/confidentiality
- b. Specimen handling
- c. Patient/Staff interaction
- d. Accurate record keeping – patient and quality control
- e. Instrument use and maintenance
- f. Accurate specimen testing as demonstrated through rotation checklist

Effective Date of Course Content Summary (Month, Date, Year): January 1, 2012