

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

Course Prefix and Number: MDL 252

Credits: 3

Course Title: Clinical Microbiology II

Course Description: Teaches handling, isolation, and identification of pathogenic microorganisms. Emphasizes clinical techniques of bacteriology, mycology, parasitology and virology. Part II of II. Prerequisite: MDL 251 (or BIO 205). Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose: Provides the basic theory and technique of identifying less commonly encountered microorganisms. These organisms will include fungi, parasites, viruses, and bacteria with unusual requirements. Topics will include safety precautions, proper collection, purpose and selection of media, isolation, staining and testing used in the clinical laboratory setting; the role of these organisms in human disease; conventional, automated, molecular, and serological methods; in

Major Topics to Be Included:

- a. Safety in the clinical lab
- b. Proper use of BSL (biosafety level) labs
- c. Quality control and quality assurance
- d. Mechanisms of a