

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

Course Prefix and Number: MDL 110

Credits: 3

Course Title: Urinalysis and Body Fluids

Course Description: Studies the gross, chemical, and microscopic techniques used in the clinical laboratory. Emphasizes study of clinical specimens, which include the urine, feces, cerebrospinal fluid, blood, and body exudates. Introduces specimen collection and preparation. Prerequisite or Co-requisite: MDL 101. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose: Provides theory and techniques required to collect, handle, and conduct tests on urine and various body fluids. Theory and tests are related to disease states and diagnosis. Topics include theory of urinalysis; physical, chemical, and microscopic urinalysis; urinalysis and disease state correlation; special urinalysis and related testing; body fluids tests; and safety and quality control. Provides correlation between other clinical testing being simultaneously performed in laboratories to include chemistry, hematology, and microbiology.

Course Prerequisites and Co-requisites:

Prerequisite or Co-requisite: MDL 101

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Explain the proper technique, QA/QC for using a multistix reagent strip;
- b. Describe the test principle, interpretation, normal value, clinical significance (if applicable),

m.m.