J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: MDL 101 **Credits: 3**

Course Title: Introduction to Medical Laboratory Techniques

Course Description (including lecture hours, lab hours, total contacts)

Introduces the basic techniques, including design of the healthcare system, ethics, terminology, calculations, venipuncture, and routine urinalysis. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

Students are introduced to the Clinical Laboratory through basic procedures and concepts. Each area of the Clinical laboratory is introduced and students gain an appreciation for the overall career field.

Course Prerequisites/Corequisites (Entry-level competencies **required** for enrollment)

General education prerequisites.

Course Objectives (Each item should complete the following sentence.)

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

1. Describe the purpose of the laboratory and give a description of the duties of the different categories of personnel.
2. Describe the laboratory safety rules and know how to use the safety equipment.
3. Describe the usage and function of various laboratory glassware equipment.
4. Describe the usage and function of various laboratory equipment.
5. Describe the procedures necessary to collect clinical specimens.
6. Use basic medical terminology.
7. Describe the basic areas of the laboratory and their function.
8. Perform a successful venipuncture; understand the proper use of glassware and the proper use of laboratory equipment.
9. Perform various tests representative of the different areas in the clinical laboratory.

Major Topics to be Included

- Introduction
- Laboratory Safety
- Laboratory Glassware
- Laboratory Equipment
- Clinical Specimens
- Quality Control/Assurance
- Venipuncture techniques
- Medical Terminology
- Areas of the Laboratory
- Basic Laboratory Procedures of Clinical Laboratory

Effective Date of Course Content Summary (Month, Date Year): August, 2008