

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: MDL 100

Credits: 2

Course Title: Introduction to Medical Laboratory Technology

Course Description: Introduces the basic principles, techniques, and vocabulary applicable to all phases of medical laboratory technology, including design of the health care system, ethics, terminology, and calculations. Lecture 1 hour. Laboratory 3 hours. Total 4 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 of medical laboratory technology.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Describe the purpose of the laboratory and the duties of the different levels of personnel;
- b. Describe the laboratory safety rules and demonstrate appropriate use of the safety equipment;
- c. Demonstrate the use and describe the function of laboratory glassware;
- d. Demonstrate the use and describe the function of various laboratory equipment;
- e. Describe the procedures necessary to collect clinical specimens;
- f. Use appropriate medical terminology;
- g. Describe the areas of the laboratory and their function; and
- h. Perform various tests representative of the different areas in the clinical laboratory.

Major Topics to Be Included:

- a. Introduction
- b. Laboratory Safety
- c. Laboratory Glassware
- d. Laboratory Equipment
- e. Clinical Specimens
- f. Quality Control/Assurance
- g. Medical Terminology
- h. Areas of the Laboratory
- i. Introduction to Clinical Laboratory Procedures

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