

**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 (SLOs): ~~1. Identify the components of a medical laboratory.~~ ~~2. Explain the role of the medical laboratory in the health care system.~~ ~~3. Describe the basic principles of medical laboratory technology.~~ ~~4. Apply the basic principles of medical laboratory technology to the clinical setting.~~ ~~5. Demonstrate the basic techniques of medical laboratory technology.~~ ~~6. Calculate the basic calculations used in medical laboratory technology.~~ ~~7. Explain the importance of ethics and safety in the medical laboratory.~~ ~~8. Describe the basic principles of quality control in the medical laboratory.~~ ~~9. Explain the role of the medical laboratory in the diagnosis and treatment of disease.~~ ~~10. Describe the basic principles of medical laboratory technology.~~ ~~11. Apply the basic principles of medical laboratory technology to the clinical setting.~~ ~~12. Demonstrate the basic techniques of medical laboratory technology.~~ ~~13. 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