

RARITAN VALLEY COMMUNITY COLLEGE ACADEMIC COURSE OUTLINE

MLTC 100 Introduction to Medical Laboratory Technology

I. Basic Course Information

A. Course Number and Title: MLTC 100 Introduction to Medical Laboratory Technology

B. New or Modified Course: Modified

C. Date of Proposal: Semester: Fall Year: 2024

D. Effective Term: Fall 2025

E. Sponsoring Department: Science & Engineering

F. Semester Credit Hours: 1 credit

G. Weekly Contact Hours: Lecture: 2
 Laboratory: 0
 Out of class student work per week: 4

Prerequisites/Corequisites: None

I. Laboratory Fees: No

II. Catalog Description

This course introduces basic principles, techniques and vocabulary applicable to medical laboratory technology. It will provide an overview of professional societies and major regulatory agencies of the Health Care System, and introduce the theory behind safety procedures and standards and lab information systems. The course will cover the training and education required for Medical Laboratory Technicians, with an emphasis on their role in health care.

III. Statement of Course Need

- A. This course is required for the Medical Laboratory Technology program. It is a prerequisite for all subsequent courses in the Medical Laboratory Technology program.
- B. There is no lab.
- C. This course generally transfers as a Free Elective, but it may transfer dependent on the transfer institution as a Program Elective to schools that offer a B.S. degree in Clinical Laboratory Science.

IV. Place of Course in College Curriculum

- A. Free Elective.
- B. This course meets a program requirement for the Associate of Applied Science degree program in Medical Laboratory Technology
- C. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, www.njtransfer.org; b) for all other colleges and universities, go to the individual websites.

V. Outline of Course Content

- A. Introduction to the fundamentals of clinical laboratory science.
- B. Clinical laboratory science as a profession.
- C. Clinical laboratory improvement amendments.
- D. Laboratory departments.
- E. Health care organizations.
- F. Primary accrediting organizations.
- G. External government regulations.
- H. Medical legal issues.
- I. Medical Ethics.

VI. A. Course Learning Outcomes

At the completion of the course, students will be able to:

- 1. Communicate effectively in both written and oral presentations (GE-1).
- 2. Use appropriate mathematical applications to interpret data (GE-2*).
- 3. Recognize the need for and apply concepts of inclusion and ethics in health care situations (GE-GCA, Ethics).

4. Describe the role of the MLT in patient care.
5. Describe the structure of a health care organization.
6. Compare and contrast the educational and licensure/certification requirements for MLTs.
7. Describe the major points of legislature that affects MLTs.
8. Develop professionalism, communication skills, and interpersonal relationships by working cooperatively with instructors and fellow students.

C. Assessment Instruments

1. exams
2. assignments
3. research papers
4. essays
5. journals
6. portfolios
7. discussions
8. case studies

VII. Grade Determinants

- A. exams
- B. assignments
- C. quizzes
- D. research papers
- E. presentations

The primary formats, modes, and methods for teaching and learning that may be used in the course:

- A. lecture/discussion
- B. small-group work
- C. computer-assisted instruction
- D. guest speakers
- E. student oral presentations
- F. simulation/role playing
- G. student collaboration
- H. independent study

VIII. Texts and Materials

- A. Textbooks

B. Web Sources

Sample of text which may be featured:

- Linne & Ringsrud's Clinical Laboratory Science: Concepts, Procedures, and Clinical Applications 8th ed. Edition, by Mary Louise Turgeon.

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

IX. Resources

- A. Computers with internet access.
- B. RVCC library databases.

X. Honors Options

An Honors Option is not available for this course.