

**Common Course Outline**  
MLTC 250  
**Trends in Medical Laboratory Technology**  
1 Credit

**Community College of Baltimore County**

**Description**

**MLTC 250 – Trends in Medical Laboratory Technology** introduces new practice developments, emerging technologies, and “hot topics” in the current literature within the scope of practice of the medical laboratory technician. The course also includes a comprehensive review of the major discipline areas within the medical laboratory technical curriculum to prepare the student for the national certifications examination. The course provides career preparation with regard to resume writing and interviewing skills.

**1 Credit**

**Prerequisite:** MLTC 200

**Corequisites:** MLTC 253; MLTC 254; MLTC 255; MLTC 256

**Overall Course Objectives**

Upon completion of this course students will be able to:

1. identify new technologies and practices in the field of laboratory medicine;
2. demonstrate entry-level competency in the major areas of the clinical laboratory;
3. integrate laboratory data through the use of case studies;
4. correlate laboratory test results with normal and disease processes;
5. develop a course of corrective action given a case study scenario;
6. prepare to take the American Society for Clinical Pathology-Board of Certification (ASCP-BOC) National Certification Examination for Medical Laboratory Technicians;
7. practice test taking techniques as they apply to the national certification examination;
8. recognize the different levels of the exam’s item construction by performing an item analysis;
9. evaluate time management techniques for taking time sensitive examinations; and
10. design a resume and demonstrate effective interviewing skills.

**Major Topics**

- I. Emerging technologies and new practice developments
- II. Resume writing and interviewing techniques
- III. Test-taking skills
- IV. Comprehensive review of normal and disease processes and associated laboratory data interpretation, including quality control procedures
  - A. Hematology and coagulation
  - B. Immunology and blood bank

- C. Medical microbiology
- D. Clinical chemistry and urinalysis/body fluids

### **Course Requirements**

Grading procedures will be determined by the individual faculty member but will include the following:

### **Grading/exams**

- Weekly quizzes
- Professional activities (e.g. Professional Development, Community Service, and Scholarly Activities)
- A written portfolio
- A comprehensive exam

Written Assignments: Students are required to use appropriate academic resources.

### **Other Course Information**

This course is a Medical Laboratory Technology core course.

This course is part of a program sequence that requires admission to the program.

Students must take this course in the final semester of the program, concurrent with MLTC 253, 254, 255, and 256.

This course is offered in the fall only.

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