

## MEDICAL LABORATORY TECHNICIAN

Associate in Applied Science Degree | Career Program | Department of Biological Sciences

The Medical Laboratory Technician (MLT) curriculum is a career program in which the student earns the AAS degree. In addition to taking general core courses, certain liberal arts and science requirements, and specialized courses in medical laboratory technology, the student has a requirement to train in state-of-the-art hospital laboratories. Upon completion, students will qualify to sit for the NYS Clinical Laboratory Technician license exam (this technician license is required for employment in NYS diagnostic laboratories).

Some students seek employment upon graduation, while others transfer to a four-year college to pursue a baccalaureate degree in Medical Technology (MT). An articulation agreement allows students to transfer credits and continue their studies at York College and earn a B.S. in Medical Technology. A copy of this agreement is available on the Transfer Planning web site. Graduates who transfer and successfully complete a BS degree in Medical Technology will be eligible for the NYS Medical Technologist license exam. The program also articulates with SUNY Empire State College for a baccalaureate degrees in Interdisciplinary Studies as well Science, Mathematics and Technology.

All students wishing to enter the Medical Laboratory Technician curriculum must complete the following pre-MLT sequence with a minimum index of 2.0: BIO 11, ENG 110/111, CHM 17, MTH 13.

To be retained in the program, students must earn a minimum grade of "C" (73-76.9) and an overall GPA of 2.3 (on a 4.0 scale) in each Medical Technology course (BIO 81, BIO 87, BIO 82, BIO 83, BIO 85, BIO 86, BIO 28, BIO 44). Any grade below a "C" (C minus, D plus, D, D minus or F) requires that the student repeat the course. No Medical Technician course may be taken more than twice.

Students must maintain an overall GPA of 2.0 (on a 4.0 scale) and a GPA of 2.3 in MLT courses (listed above) to enroll in BIO 90 (Clinical Internship) and to graduate from BCC.

The MLT courses are integrated and sequenced in a specific manner to enable students to attain program competencies. All required courses must be passed each semester in order to advance to the following semester.

Any two failures (grade below a "C") in any of the required MLT courses will result in dismissal from the Medical Laboratory Technician program. Because of the critical nature of the profession, deviations from professional conduct may adversely affect the patient's well-being.

Therefore, the MLT Program Director, BCC faculty and Clinical Coordinators reserve the right to immediately remove the student from didactic, laboratory and clinical course work and/or dismiss that student from the program if it is determined that the student has acted in an unprofessional manner or if the student is unable to provide safe laboratory practices.

Curriculum Coordinator: Ms. Diane Price-Banks MPH, MLS (ASCP)<sup>CM</sup>

### MEDICAL LABORATORY TECHNICIAN CURRICULUM (PATHWAYS)

66 Credits required for AAS Degree

#### Required Core

##### A. English Composition

- ENG 110 Fundamentals of Composition and Rhetoric  
OR ENG 111 Composition and Rhetoric I (3 Credits)

##### B. Mathematical and Quantitative Reasoning

- MTH 23 Probability and Statistics (3 Credits)

##### C. Life and Physical Sciences

- BIO 11 General Biology I (4 Credits)

#### Flexible Core

##### A. World Cultures and Global Issues

- HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World (3 Credits)

##### D. Individual and Society

- COMM 11 Fundamentals of Interpersonal Communication (3 Credits)

##### E. Scientific World

- BIO 12 General Biology II (4 Credits)

#### Additional Flexible Core Requirement - Area E

- CHM 17 Fundamentals of General Chemistry I (4 Credits)

**SUBTOTAL 24**

## Major Requirements

- ART 10 Art Survey *OR* MUS 10 Music Survey (1 Credit)
- BIO 22 Medical Terminology (2 Credits)
- BIO 28 Microbiology and Infection Control (4 Credits)
- BIO 44 Diagnostic Microbiology (4 Credits)
- BIO 81 Introduction to Medical Laboratory Technology (2 Credits)
- BIO 82 Clinical Hematology and Coagulation (4 Credits)
- BIO 83 Clinical Chemistry (4 Credits)
- BIO 85 Immunology / Serology (2 Credits)
- BIO 86 Immunohematology (3 Credits)
- BIO 87 Urinalysis and Body Fluids (2 Credits)
- BIO 90 Clinical Internship (4 Credits)
- CHM 18 Fundamentals of General Chemistry II (4 Credits)
- MTH 13 Trigonometry and College Algebra (3 Credits)
- PSY 11 Introduction to Psychology *OR* SOC 11 Introduction to Sociology (3 Credits)

**SUBTOTAL 42**

