**MEDICAL LABORATORY TECHNOLOGY**

**Associate in Applied Sciences Degree | Career Program**

**Biology & Medical Lab Technology Department**

Curriculum Coordinator: Dr. Latchman Somenarain

**Medical Laboratory Technology Curriculum**

The Medical Laboratory Technology (MLT) curriculum is a career program in which the student earns the A.A.S. 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.

Note: All students wishing to enter the Medical Laboratory Technology curriculum must complete the following pre-MLT sequence with a minimum index of 2.0: BIO 11, ENG 10/11, CHM 17, MTH 13.

**MEDICAL LABORATORY TECHNOLOGY CURRICULUM (PATHWAYS)**

66 Credits required for A.A.S. Degree

### REQUIRED CORE

**A. English Composition**
- ENG 10 Fundamentals of Composition and Rhetoric OR ENG 11 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**

### REQUIRED AREAS OF STUDY

**ART 10 Art Survey OR MUS 10 Music Survey (1 Credit)**

**BIO 22 Medical Terminology (2 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 13**

### SPECIALIZATION REQUIREMENTS

**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)**

**SUBTOTAL 29**
MEDICAL LABORATORY TECHNOLOGY
(Pre-Pathways)

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If you began studying at BCC in or after Fall 2013, Pathways applies. Pathways also applies to students who have returned to CUNY after an absence of more than one semester. If you are a continuing student who entered before Fall 2013, you will be able to choose whether you remain with your existing requirements or change to Pathways. You should consult with an academic advisor.

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MEDICAL LABORATORY TECHNOLOGY
CURRICULUM
66 Credits required for A.A.S. Degree

CORE REQUIREMENTS
■ ENG 10 Fundamentals of Composition & Rhetoric OR
   ENG 11 Composition and Rhetoric I (3 Credits)
■ CMS 11 Fundamentals of Interpersonal Communication (3 Credits)
■ HIS 10 History of the Modern World OR
   HIS 11 Introduction to the Modern World (3 Credits)
■ MTH 13 Trigonometry & College Algebra (3 Credits)
■ BIO 11 General Biology I (4 Credits)
TOTAL 16

REQUIRED AREAS OF STUDY
■ ART 10 Art Survey OR MUS 10 Music Survey (1 Credit)
■ BIO 12 General Biology II (4 Credits)
■ BIO 22 Medical Terminology (2 Credits)
■ CHM 17 and 18 Fundamentals of General Chemistry I and II (8 Credits)
■ MTH 23 Probability and Statistics (3 Credits)
■ PSY 11 Introduction to Psychology OR
   SOC 11 Sociology (3 Credits)
TOTAL 21

SPECIALIZATION REQUIREMENTS
■ 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)
TOTAL 29

Note: At least two courses must be taken from a list designated as “Writing Intensive” as published each semester in the Registration Guide and Schedule of Classes.