

MEDICAL LABORATORY TECHNOLOGY (A.S.)

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Delivery Method(s): On-Campus, Online

Location(s): Cocoa, Online

Limited Access: Yes

Program Testing Requirements: Assessment in Reading, Writing, and Math

Academic Community: HSCI

Program Code: MLAS

Classification of Instructional Programs (CIP) Code: 51.1004

Florida Department of Education CIP Code: 1351100405

Leads to State or Organizational License or Certification:

- American Society for Clinical Pathology (ASCP) MLT
- American Association of Bioanalyses (AAB) MT
- Florida Department of Health Licensure MLT
- **Cost Associated with taking the exam:** American Society for Clinical Pathology (ASCP) MLT: \$145
 - American Association of Bioanalyses (AAB) MT : \$185
 - Florida Department of Health Licensure MLT: \$55
- **Where to take the exam:** [AMT American Medical Technology](#)

This program is accredited by the

National Accrediting Agency for Clinical Laboratory Sciences ([NAACLS](#))
 5600 N. River Road, Suite 720
 Rosemont, IL 60018
 (773) 714-8880

Upon completion of the program, the student will be able to take the examination for national certification and is eligible for state license as required by the Florida Clinical Laboratory Law.

Program-Specific Admissions Information: This is a limited-access program; student must submit a separate application to the program.

Refer to the [Associate in Science \(A.S.\)](#) page to find information about admission, graduation, general education and other requirements. Students will work with an advisor to determine the courses best suited to their plan of study.

Visit the [program page](#) for more information or call 321-433-7575.

Program of Study

Code	Title	Credit Hours
General Education Courses		
BSCC 1010	General Biology 1	4
ENC 1101	Composition 1	3
MAC 1105	College Algebra	3
Humanities Core Requirement		3

[Social/Behavioral Science/Core-Civic Literacy Requirement](#) 3

Major Courses

MLT 1040	Laboratory Specimens and Microscopy	3
MLT 1300	Hematology	3
MLT 1500	Immunology/Serology	3
MLT 1525	Immunochemistry	3
MLT 1610	Clinical Chemistry	4
MLT 2401	Medical Microbiology	3
MLT 2760	Clinical Instrumentation	3
MLT 2930	Pathology Seminar	2
MLTC 1330	Hemostasis	2
MLTC 1440	Parasitology and Mycology	2
MLTL 1046	Core Lab 1: Basic Skills Module	1
MLTL 1230	Core Lab 3: Microscopy Module	1
MLTL 1500	Immunology/Serology Laboratory	1
MLTL 1525	Immunochemistry Laboratory	1
MLTL 2401	Medical Microbiology Laboratory	2
MLTL 2527	Advanced Immunochemistry Laboratory	1
MLTL 2760	Core Lab 2: Automation Module	1
MLTL 2806	Core Laboratory Clinical Rotation	3
MLTL 2807	Transfusion Medicine Clinical Rotation	3
MLTL 2811	Microbiology and Molecular Clinical Rotation	3

Support Courses

BSCC 1426	Introduction to Biotechnology Methods	4
CHM 1045	General Chemistry 1	3
CHM 1046	General Chemistry 2	3
CHML 1045	General Chemistry 1 Laboratory	1
CHML 1046	General Chemistry 2 Laboratory	1
SPC 2608	Fundamentals of Speech Communication	3

Total Hours: 76

Note: In accordance with Florida Statute and Florida Administrative Code, students must satisfy the [Civic Literacy Graduation Requirement](#).

A grade of "C" or higher is necessary in each major course for progression and graduation.

Additional Notes:

- General Biology and General Chemistry 1 and 2 must be completed prior to beginning MLT coursework.
- All MLT lecture courses must be successfully completed prior to scheduling clinical rotations.
- Program Manager approval is required prior to scheduling clinical rotations.

Course Sequence

Below is the recommended sequence for taking courses in this degree. Using this guide and meeting with your assigned advisor each term is the key to successful program completion.

Please note that course prerequisites, including required developmental math, reading, or writing, need to be completed to continue on to the more advanced course. Click on the course number to see the requirements.

Code	Title	Credit Hours
BSCC 1010	General Biology 1	4
MAC 1105	College Algebra	3
ENC 1101	Composition 1	3
Humanities Core Requirement		3
BSCC 1426	Introduction to Biotechnology Methods	4
CHM 1045 & CHML 1045	General Chemistry 1 and General Chemistry 1 Laboratory	4
SPC 2608	Fundamentals of Speech Communication	3
Social/Behavioral Science/Core-Civic Literacy Requirement		3
CHM 1046 & CHML 1046	General Chemistry 2 and General Chemistry 2 Laboratory	4
MLTC 1330	Hemostasis	2
MLT 1040	Laboratory Specimens and Microscopy	3
MLTL 1046	Core Lab 1: Basic Skills Module	1
MLT 2760	Clinical Instrumentation	3
MLT 1610	Clinical Chemistry	4
MLTL 2760	Core Lab 2: Automation Module	1
MLT 1300	Hematology	3
MLTL 1230	Core Lab 3: Microscopy Module	1
MLT 2401	Medical Microbiology	3
MLT 1500	Immunology/Serology	3
MLTL 1500	Immunology/Serology Laboratory	1
MLTL 2401	Medical Microbiology Laboratory	2
MLT 1525	Immunohematology	3
MLTL 1525	Immunohematology Laboratory	1
MLTC 1440	Parasitology and Mycology	2
MLT 2930	Pathology Seminar	2
MLTL 2527	Advanced Immunohematology Laboratory	1
MLTL 2806	Core Laboratory Clinical Rotation	3
MLTL 2807	Transfusion Medicine Clinical Rotation	3
MLTL 2811	Microbiology and Molecular Clinical Rotation	3
Total Hours:		76

Learning Outcomes

- Demonstrate understanding of basic and advanced laboratory analysis
 - Core Ability Supported: Think Critically and Solve Problems*
- Demonstrate visual identification of cells, organisms, assay schematics, abnormalities
 - Core Ability Supported: Think Critically and Solve Problems*
- Demonstrate successful performance of laboratory assays in a clinical setting
 - Core Ability Supported: Model Ethical and Civic Responsibility*
- Demonstrate successful performance of professional behavior in a clinical setting
 - Core Ability Supported: Model Ethical and Civic Responsibility*
- Evaluate lab results to determine accuracy and consistency with overall patient condition
 - Core Ability Supported: Think Critically and Solve Problems*