FSCJ Florida State College at Jacksonville

Medical Laboratory Technology (2220)

ASSOCIATE IN SCIENCE | Revised: May 23, 2023

The Associate in Science (A.S.) Degree in Medical Laboratory Technology trains and educates competent and ethical entry-level clinical laboratory professionals.

This program prepares students to become a medical laboratory technician with unlimited choices of practice settings including hospitals, reference laboratories, clinics, businesses and industries. Areas of scientific exploration open to students are the immune system, cell marker technology and cancer research. In the clinical area, drug testing, therapeutic drug monitoring and biogenetics are a few of the specialties with openings.

☑	Task
☐	Explore career resources at fscj.edu/student-services/career-development.
☐	Meet with your advisor each term.
☐	Fulfill the Civic Literacy requirement.
☐	Satisfy the associate in science degree graduation requirements.

Career Options

Some experienced graduates can become technical specialists or senior techs. Some graduates move into laboratory information system management or become technical representatives for instrument companies. To become a supervisor, the graduate will need to earn a bachelor's degree in Clinical Lab Science or Biology.

Note: If you are considering employment in a state other than Florida, please visit https://www.fscj.edu/academics/license-disclose to determine if this program will meet the selected state's requirements to sit for licensure or certification testing.

Program Accreditation

The Medical Laboratory Technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) at 5600 N. River Road, Suite 720, Rosemont, Illinois 60018-5119, (773) 714-8880.

Application Procedure

This is a Selective Access program. Students must follow the application procedure outlined in the current College Catalog. The **application deadline** is May 15 of each year with classes starting in the fall term.

Advising

(904) 646-2300 or hcic@fscj.edu.

Sample Roadmap

This roadmap provides general guidance about required courses. For specific guidance about your individual academic degree plan, please see an advisor. Also refer to the College Catalog and class schedules for additional information.

A minimum grade of C or higher must be achieved in all professional courses, as well as courses used to satisfy the general education and civic literacy requirements. Additionally, students must complete all campus-based courses with a grade point average of 2.5 or higher before entering the clinical phase of their education.

Note: This program requires 8 credit hours of chemistry. Students may fulfill this requirement by completing either CHM 1025C and CHM 2045C or CHM 2045C and CHM 2046C.

Term 1: Prerequisites (Taken Before Program Admission)

☑	Course: Course Title	Credit Hours
☐	ENC 1101: English Composition I **or** ENC 1101C: English Composition I Enhanced **or** ENC 1102: Writing About Texts	3-4
☐	MAC 1105: College Algebra **or** higher-level MAC prefix course **or** MAP 2302: Differential Equations	3-5
☐	CHM 1025C: Introduction to General Chemistry **or** CHM 2045C: General Chemistry and Qualitative Analysis I	4
☐	BSC 2020C: Human Biology	4

Term 2: Prerequisites (Taken Before Program Admission)

☑	Course: Course Title	Credit Hours
☐	CHM 2045C: General Chemistry and Qualitative Analysis I **or** CHM 2046C: General Chemistry and Qualitative Analysis II	4
☐	MCB 2010C: Microbiology	4
☐	HSC 1531: Medical Terminology (for Health Professions)	3
☐	AMH 2020: United States History From 1877 to the Present **or** POS 2041: American Federal Government	3

Term 3: Fall (After Acceptance to the MLT Program)

☑	Course: Course Title	Credit Hours
☐	MLT 1022C: Introduction to Health Technology	3
☐	MLT 1301C: Hematology I	3
☐	MLT 2500C: Clinical Immunology	4
☐	ARH 2000: Art in the Humanities **or** PHI 2010: Philosophy in the Humanities **or** MUL 2010: Music in the Humanities **or** LIT 2000: Literature in the Humanities **or** HUM 2020: Topics in the Humanities **or** THE 2000: Theatre in the Humanities	3

Important for You to Know

This academic roadmap does not include **developmental education courses** in reading, writing, and/or mathematics that you may be required to take. Students who place into developmental education courses are required to complete designated developmental education courses with a grade of C or higher regardless of program of study. In addition, it does not include **MAT 1033: Intermediate Algebra**, which, for many students, is a prerequisite course for MAC 1105.

Notice to Prospective Students

Due to hospital regulations, criminal background checks, medical examinations, and proof of immunizations will be required prior to starting internships at medical facilities.

Certification/Licensing

Graduates of the Medical Assisting Associate in Science degree program are eligible to sit for the following examinations:

- American Society of Clinical Pathologist: Medical Laboratory Technician
- American Association of Bioanalysts: Medical Laboratory Technician or Medical Technologists

Internships

The medical laboratory technology program is affiliated with the following labs and hospitals, which provide training for MLT students: Baptist Beaches, Baptist Downtown, Baptist Nassau, Baptist South, Department of Health, Bureau of Laboratories, Flagler Hospital, Memorial Hospital, NAS Hospital, Orange Park Medical Center, Ormond Beach Memorial Health, Shands at Starke Regional Memorial Center, St. Vincent's Healthcare, The Blood Alliance, and UF Health.

Term 4: Spring

☑	Course: Course Title	Credit Hours
☐	MLT 1302C: Hematology II	3
☐	MLT 2230C: Clinical Microscopy	2
☐	MLT 2525C: Immunohematology	4
☐	MLT 2610C: Clinical Chemistry	4

Term 5: Summer

☑	Course: Course Title	Credit Hours
☐	MLT 1401C: Medical Microbiology	4
☐	MLT 1440C: Parasitology/Mycology	2
☐	MLT 2150C: Clinical Correlations	2

Term 6: Fall

☑	Course: Course Title	Credit Hours
☐	MLT 2800L: Clinical Practicum I	7

Term 7: Spring

☑	Course: Course Title	Credit Hours
☐	MLT 2801L: Clinical Practicum II	7

Total Program Credit Hours

The **Medical Laboratory Technology** A.S. degree program requires a **minimum of 76 credit hours**. Total program hours may vary based on the student's individual degree plan. Please see an advisor for individual guidance. This program **is eligible** for financial aid.

Program Learning Outcomes

Upon completing this program, students will be able to demonstrate proficiency in the following program learning outcomes:

- **Infection Control**: Students will identify and practice infection control following standard precautions.
- **Quality Assurance Principles:** Students will identify and apply quality assurance principles and safety protocols.
- **Quality Control Analysis:** Students will utilize critical analysis of quality control data and laboratory results correctly to make valid reporting decisions.
- **Immunohematology Principles and Procedures:** Students will identify, perform, and discuss immunohematology principles and procedures.
- **Advanced Immunological Procedures:** Students will perform and interpret immunological procedures and data.
- **Diagnostic Microbiology:** Students will perform a variety of biological and molecular procedures for the identification of key characteristics of pathogenic organisms.
- **Clinical Chemistry:** Students will correlate significant laboratory data as determined by clinical chemistry assays with metabolic and organ related disorders.
- **Hematology:** Students will correlate laboratory values with expected white blood cell and red blood cell counts. Students will correlate laboratory values and peripheral blood smear morphology using correct terminology.
- **Laboratory Procedures:** Students will demonstrate the ability to read, perform and document a procedure and the results accurately.