

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.

<input checked="" type="checkbox"/> Task
<input type="checkbox"/> View career information at <a href="http://www.fscj.edu/careercoach">http://www.fscj.edu/careercoach</a>
<input type="checkbox"/> Meet with your advisor each term.
<input type="checkbox"/> Fulfill the Civic Literacy requirement.
<input type="checkbox"/> 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.

### 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) 766-6510 or [rbradsha@fscj.edu](mailto:rbradsha@fscj.edu).

### Recommended Roadmap

This roadmap provides general guidance about recommended courses. For specific guidance about your individual academic degree plan, please see an advisor. Also refer to the College Catalog 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)

Students should consult the online class schedules for terms offered and available modalities.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	ENC 1101: English Composition I <b>or</b> ENC 1101C: English Composition I Enhanced <b>or</b> ENC 1102: Writing About Texts	3-4
<input type="checkbox"/>	MAC 1105: College Algebra <b>or</b> higher-level MAC prefix course <b>or</b> MAP 2302: Differential Equations	3-5
<input type="checkbox"/>	CHM 1025C: Introduction to General Chemistry <b>or</b> CHM 2045C: General Chemistry and Qualitative Analysis I	4
<input type="checkbox"/>	BSC 2020C: Human Biology	4

#### Term 2: Prerequisites (Taken Before Program Admission)

Students should consult the online class schedules for terms offered and available modalities.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours
<input type="checkbox"/>	CHM 2045C: General Chemistry and Qualitative Analysis I <b>or</b> CHM 2046C: General Chemistry and Qualitative Analysis II	4
<input type="checkbox"/>	MCB 2010C: Microbiology	4
<input type="checkbox"/>	HSC 1531: Medical Terminology (for Health Professions)	3
<input type="checkbox"/>	AMH 2020: United States History From 1877 to the Present <b>or</b> POS 2041: American Federal Government	3

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

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Available Modalities
<input type="checkbox"/>	MLT 1022C: Introduction to Health Technology	3	Hybrid, On-Campus
<input type="checkbox"/>	MLT 1301C: Hematology I	3	Hybrid, On-Campus
<input type="checkbox"/>	MLT 2500C: Clinical Immunology	4	Hybrid, On-Campus
<input type="checkbox"/>	ARH 2000: Art in the Humanities <b>or</b> PHI 2010: Philosophy in the Humanities <b>or</b> MUL 2010: Music in the Humanities <b>or</b> LIT 2000: Literature in the Humanities <b>or</b> HUM 2020: Topics in the Humanities <b>or</b> THE 2000: Theatre in the Humanities	3	Varies

## 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

**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.

## 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

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Available Modalities
<input type="checkbox"/>	MLT 1302C: Hematology II	3	Hybrid, On-Campus
<input type="checkbox"/>	MLT 2230C: Clinical Microscopy	2	Hybrid, On-Campus
<input type="checkbox"/>	MLT 2525C: Immunohematology	4	Hybrid, On-Campus
<input type="checkbox"/>	MLT 2610C: Clinical Chemistry	4	Hybrid, On-Campus

### Term 5: Summer

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Available Modalities
<input type="checkbox"/>	MLT 1401C: Medical Microbiology	4	Hybrid, On-Campus
<input type="checkbox"/>	MLT 1440C: Parasitology/Mycology	2	Hybrid, On-Campus
<input type="checkbox"/>	MLT 2150C: Clinical Correlations	2	Hybrid, On-Campus

### Term 6: Fall

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Available Modalities
<input type="checkbox"/>	MLT 2800L: Clinical Practicum I	7	Off-Campus (In-Person)

### Term 7: Spring

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Available Modalities
<input type="checkbox"/>	MLT 2801L: Clinical Practicum II	7	Off-Campus (In-Person)

## 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.

## 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.