

What will I be studying?

Medical laboratory scientists, or clinical lab scientists, analyze human blood, tissue, and bodily fluids. Using a wide variety of precision instruments, they may also conduct research and develop scientific methods to advance the study of disease processes.

Career Ideas!

Medical Laboratory Scientists (formerly referred to as Medical Technologists)

Analyze human blood, tissues, and bodily fluids, or supervise the performance of thousands of types of medical laboratory tests using a wide variety of precision instruments.

Forensic Science

Apply knowledge from diverse disciplines such as chemistry, biology, materials science, and genetics to analyze evidence

**Please note this is not a complete list of careers you can go into with this major.



Science Center (SCA) 203



ChemAdvise@usf.edu



usf.edu/chemistry/advising

Contact Us

Medical Technology Club

USF Chemistry Society

** Note on this major: The first three years are completed on campus; the fourth year (12 months) is completed at one of three affiliated hospitals in Florida, located in Tampa, St. Petersburg, and Jacksonville. The fourth year requires an application, and the decision is made by the hospital(s).

Get Involved!

Chemistry Department
Medical Laboratory Sciences, B.S.

Four Year Plan

Year 1		
Fall	Spring	Summer
CHM 2045: Chemistry 1**	CHM 2046: Chemistry 2	Core Humanities
CHM 2045L: Chemistry 1 Lab**	CHM 2046L: Chemistry 2 Lab	Core Social Sciences
BSC 2010: Cellular Processes	BSC 2011: Biodiversity	
BSC 2010L: Cellular Processes Lab	BSC 2011L: Biodiversity Lab	
ENC 1101: Composition 1	ENC 1102: Composition 2	
MAC 1105: College Algebra**	Enhanced Gen-Ed: Creative Thinking	
Total Hours: 14	Total Hours: 14	Total Hours: 6
Year 2		
Fall	Spring	Summer
PCB 3023: Cell Biology	MCB 3020: Microbiology	General Elective
PCB 3023L: Cell Biology Lab	MCB 3020L: Microbiology Lab	
CHM 2210: Organic Chemistry 1	CHM 2211: Organic Chemistry 2	
CHM 2210L: Organic Chemistry 1 Lab	CHM 2211L: Organic Chemistry 2 Lab	
Enhanced Gen-Ed: Ethical Reas. & Civic Eng.	Enhanced Gen-Ed: Human & Cultural Diversity	
Total Hours: 12	Total Hours: 12	Total Hours: 3
Year 3		
Fall	Spring	Summer (Year 4 following Spring)
BSC 2085: Anatomy and Physiology 1	PCB 4234: Principles of Immunology	MLS 4038: Intro to Medical technology
BSC 2085L: Anatomy and Physiology 1 Lab	Enhanced Gen-Ed: Info. & Data Literacy	MLS 4860: Clinical Urinalysis and Fluids
BCH 3053: Biochemistry	BSC 2086: Anatomy and Physiology 2	MLS 4861: Clinical Immunology
BSC 4933: Medical Bacteriology	BSC 2086L: Anatomy and Physiology 2 Lab	MLS 4866: Clinical Lab Management and Edu.
BSC 4933: Medical Bacteriology Lab	STA 2023: Introductory Statistics	
Enhanced Gen-Ed: High Impact Practice	General Elective	
Total Hours: 14	Total Hours: 15	Total Hours: 6
Year 4		
Fall	Spring	Total Credits to Graduation
MLS 4862: Clinical Hematology	MLS 4864: Clinical Chemistry	Major Requirements: 88 credit hours
MLS 4865: Clinical Immunohematology	MLS 4863: Clinical Microbiology	
		General Education Requirements: 27 credit hours
		Other Degree Requirements: 5 credit hours
Total Hours: 12	Total Hours: 12	Total= 120

**May require completion of additional math pre-requisites (consider the [MPT](#) or [CPT](#) exams)

^Internship course order may differ from pictured.