

What will I be studying?

The cell and molecular processes that occur within the cell. This program provides a firm foundation in basic biological concepts and the tools necessary to function as a professional biologist with a special emphasis on a variety of biomedical topics.

Career Ideas!

Genetic Counseling

Assess individual or family risk for a variety of inherited conditions

Biological Technician

Help biological/medical scientists conduct laboratory tests and experiments

Medical Scientist

Conduct research dealing with the understanding of human diseases

Forensic Scientist

Aid criminal investigations by collecting and analyzing evidence

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



Science Center (SCA) 203



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biology.usf.edu/bioadvise

Contact Us

Cell, Molecular, and Microbiology Club

Pre-Medical American Medical Student Association (AMSA)

Undergraduate American Medical Women's Association

Minority Pre-Professional Science Society

American Academy of Forensic Sciences

The American Society for Cell Biology

Get Involved!

Cell Biology, Microbiology, and Molecular Biology Department
Cell and Molecular Biology, B.S.

Example Four Year Plan

Year 1		
Fall	Spring	Summer
CHM 2045: Chemistry 1**	CHM 2046: Chemistry 2	STA 2023: Statistics
CHM 2045L: Chemistry 1 Lab **	CHM 2046L: Chemistry 2 Lab	Non-Major Elective
MAC 2311: Calculus 1**	BSC 2010: Cellular Processes	
ENC 1101: Composition 1	BSC 2010L: Cellular Processes Lab	
Core Social Science Course	Core Humanities	
	ENC 1102: Composition 2	
Total Hours: 14	Total Hours: 14	Total Hours: 6
Year 2		
Fall	Spring	Summer
BSC 2011: Biodiversity	CHM 2211: Organic Chemistry 2	PHY 2053: Physics 1
BSC 2011L: Biodiversity Lab	CHM 2211L: Organic Chemistry 2 Lab	PHY 2053L: Physics 1 Lab
CHM 2210: Organic Chemistry 1	PCB 3063: General Genetics	
CHM 2210L: Organic Chemistry 1 Lab	PCB 3063L: General Genetics Lab	
Enhanced Gen-Ed: Creative Thinking	Enhanced Gen-Ed: Info & Data Literacy	
Enhanced Gen-Ed: Human/Cultural Diversity	Non-Major Elective	
Total Hours: 15	Total Hours: 15	Total Hours: 4
Year 3		
Fall	Spring	Summer
PCB 3023: Cell Biology	MCB 3410: Cell Metabolism	
PCB 3023L: Cell Biology Lab	CBO Major Elective	
PHY 2054: Physics 2	CBO Major Elective	
PHY 2054L: Physics 2 Lab	Upper-Level Non-Major Elective	
CBO Major Elective	Upper-Level Non-Major Elective	
Enhanced Gen-Ed: Ethical Reasoning & Civic Engagement		
Total Hours: 14	Total Hours: 15	Total Hours: 0
Year 4		
Fall	Spring	Total Credits to Graduation
PCB 4026: Molecular Biology of the Gene	PCB 4024: Molecular Biology of the Cell	Major Requirements: 72 credit hours
CBO Major Elective	CBO Major Elective	
Upper-Level Non-Major Elective	Upper-Level Non-Major Elective	General Education Requirements: 24 credit hours
Non-Major Elective	Non-Major Elective	
		Other Degree Requirements: 24 credit hours
Total Hours: 12	Total Hours: 12	Total= 120-121

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