

What will I be studying?

Bacteria and other microbes, particularly those that cause disease. This program provides a firm foundation in basic biological concepts and the tools necessary to function as a professional microbiologist as well as the opportunity to qualify for certification by the National Registry of Microbiologists.

Career Ideas!

Professional Microbiologist

Research microorganisms such as bacteria, viruses, algae, fungi, and parasites

Medical Technologist

Perform complex medical laboratory tests for diagnosis and treatment of disease

Food Scientist

Study the principles underlying the processing and deterioration of foods

Infectious Disease Scientist

Investigate infectious diseases and develop methods for diagnosis/treatment of those diseases

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



Science Center (SCA) 203



bioadvise@usf.edu



biology.usf.edu/bioadvise

Contact Us

Cell, Molecular, and Microbiology Club

National Registry of Microbiologists

**The American Society for Clinical
Laboratory Science**

Microbiology Society

Infectious Disease Interest Group

**The International Committee of Food
Microbiology and Hygiene**

CDC

Get Involved!

Cell Biology, Microbiology, and Molecular Biology Department
Microbiology, 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 | MCB 3020: Microbiology | |
| CHM 2210L: Organic Chemistry 1 Lab | MCB 3020L: Microbiology 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 | PCB 3063: General Genetics | |
| PCB 3023L: Cell Biology Lab | MCB 3410: Cell Metabolism | |
| PHY 2054: Physics 2 | MIC Major Elective | |
| PHY 2054L: Physics 2 Lab | Upper-Level Non-Major Elective | |
| MIC Major Elective | 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 |
| BSC 4933: Medical Bacteriology | MCB 4230: Molecular Microbiology | Major Requirements: 73 credit hours |
| BSC 4933: Medical Bacteriology Lab | MIC Major Elective | |
| MIC Major Elective | Upper-Level Non-Major Elective | General Education Requirements: 27 credit hours |
| Enhanced Gen-Ed: High Impact Practice | Non-Major Elective | |
| Upper-Level Non-Major Elective | | Other Degree Requirements: 20 credit hours |
| | | |
| Total Hours: 13 | Total Hours: 12 | Total= 120-122 |

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