

What will I be studying?

Students majoring in chemistry study elements and compounds composed of atoms, molecules, and ions. They study their composition, structure, properties, behavior, and the changes they undergo during a reaction with other substances.

Career Ideas!

Health Professional Career

Pursue a career as a health professional medicine, dentistry, pharmacy, etc.

Personal Care/Cosmetic Chemistry

Develops and manufactures products used for personal hygiene and beautification.

Nanochemistry

Prepare and assemble "little pieces of matter" with novel electronic, magnetic, optical, chemical, and mechanical behaviors.

Pharmaceutical Research

Apply training to the process of synthesizing new pharmaceuticals and improve the processes by which existing pharmaceuticals are made.

****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

USF Chemistry Society

Minority Pre-Professional Science Society

Pre-Pharmacy Club

USF PAMSA

Get Involved!

Chemistry Department
Chemistry, B.A., Biochemistry Emphasis

Four Year Plan

| Year 1 | | |
|---|---------------------------------------|---|
| Fall | Spring | Summer |
| CHM 2045: Chemistry 1** | CHM 2046: Chemistry 2 | BSC 2010: Cellular Processes |
| CHM 2045L: Chemistry 1 Lab** | CHM 2046L: Chemistry 2 Lab | BSC 2010L: Cellular Processes Lab |
| MAC 2311: Calculus 1** | MAC 2312: Calculus 2 | Enhanced Gen-Ed: Creative Thinking |
| ENC 1101: Composition 1 | ENC 1102: Composition 2 | |
| Core Social Science Course | Core Humanities Course | |
| | | |
| Total Hours: 14 | Total Hours: 14 | Total Hours: 7 |
| Year 2 | | |
| Fall | Spring | Summer |
| CHM 2210: Organic Chemistry 1 | CHM 2211: Organic Chemistry 2 | Enhanced Gen-Ed: Ethical Reas. & Civic Eng. |
| CHM 2210L: Organic Chemistry 1 Lab | CHM 2211L: Organic Chemistry 2 Lab | |
| PCB 3023: Cell Biology | PHY 2053: Physics 1** | |
| PCB 3023L: Cell Biology Lab | PHY 2053L: Physics 1 Lab** | |
| Enhanced Gen-Ed: Info & Data Literacy | Upper-Level Non-Major Elective | |
| Enhanced Gen-Ed: Human & Cultural Diversity | | |
| Total Hours: 15 | Total Hours: 12 | Total Hours: 3 |
| Year 3 | | |
| Fall | Spring | Summer |
| PHY 2054: Physics 1 | BCH 4034: Advanced Biochemistry 2 | |
| PHY 2054L: Physics 1 Lab | BCH 3023L: Biochemistry Lab | |
| BCH 4033: Advanced Biochemistry 1 | Major Elective | |
| Civics Literacy Course | Upper-Level Non-Major Elective | |
| Upper-Level Non-Major Elective | Upper-Level Non-Major Elective | |
| | | |
| Total Hours: 13 | Total Hours: 14 | Total Hours: 0 |
| Year 4 | | |
| Fall | Spring | Total Credits to Graduation |
| Major Elective | Major Elective | Major Requirements: 63 credit hours |
| Major Elective | Enhanced Gen-Ed: High Impact Practice | |
| Upper-Level Non-Major Elective | Upper-Level Non-Major Elective | General Education Requirements: 27 credit hours |
| Non-Major Elective | Upper-Level Non-Major Elective | |
| Non-Major Elective | Non-Major Elective | Other Degree Requirements: 30 credit hours |
| | | |
| Total Hours: 15 | Total Hours: 13 | Total= 120 |

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