

## Chemistry / Biochemistry B.S. Curriculum

### Freshman

#### Chemistry

CHE 133/133L, 134/134L; ENG 131, 132; HIS 133, 134; Minor electives

#### Biochemistry

CHE 133/133L, 134/134L; ENG 131, 132; HIS 133, 134; BIO 133, BIO elective

### Sophomore

#### Chemistry

CHE 231/231L, 241/241L, 331/331L, 332/332L; MTH 233, 234; PHY 241/241L, 242/242L

#### Biochemistry

CHE 231/231L, 331/331L, 332/332L; MTH 233, 234; PHY 241/241L, 242/242L; BIO elective

### Junior

#### Chemistry

CHE 337/337L, 338/338L, 452/452L; CSC 101 or 201, ENG 273, Eng. Lit; Core electives; Minor electives

#### Biochemistry

CHE 337/337L, 452/452L, 453; CSC 101 or 201, ENG 273, Eng. Lit; BIO electives; Core electives

### Senior

#### Chemistry

CHE 441/442L, 443/443L, 470; PSC 141, 142; Advanced electives; Core elective; Minor electives

#### Biochemistry

CHE 443/443L, 454, 470, 275 or 475; PSC 141, 142; Advanced BIO electives; Advanced CHE electives; Core elective

## Faculty

Dr. Wayne Boring	wboring@sfasu.edu
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Dr. John Moore	jmoore@sfasu.edu
Dr. Odutayo Odunuga	odunugaoo@sfasu.edu
Dr. Kefa Onchoke	onchokekk@sfasu.edu

## Campus Location

The Department of Chemistry is located in the Chemistry Building directly across from the University Center. The departmental office is in room 104.

## Physical Address

Department of Chemistry  
Box 13006 SFA Station  
Stephen F. Austin State University  
Nacogdoches, TX 75962

**Phone:** 936.468.3606  
**Fax:** 936.468.7634  
**Website:** [www.sfasu.edu/chemistry](http://www.sfasu.edu/chemistry)

## Other Important Websites

**Admissions:** [www.sfasu.edu/admissions/](http://www.sfasu.edu/admissions/)  
**Financial Aid and Scholarships:** [www.sfascholarships.sfasu.edu](http://www.sfascholarships.sfasu.edu)  
**Residence Hall Scholarships:** <http://www.sfasu.edu/admissions/scholarships/regents>  
**American Chemical Society:** [www.acs.org](http://www.acs.org)

# Major In Chemistry or Biochemistry

At

Stephen F. Austin State University

16	9	33	92
<b>S</b>	<b>F</b>	<b>As</b>	<b>U</b>
32.064	18.9984	74.9126	238.03

## It's Elemental!

## What Can I Do with a Chemistry Degree?

A wide range of occupations is available to an individual trained as a chemist or biochemist. We prepare our graduates for successful careers in the chemical industry, life or health sciences, and secondary school teaching. We also prepare our graduates to pursue higher degrees and obtain technical positions in basic research with governmental agencies, businesses, and universities.

### Graduate School

Many of our alumni go on to graduate school in various areas of chemistry such as analytical, biochemical, environmental, inorganic, organic, or physical chemistry.

### Professional School

Persons with a B.S. in Chemistry or Biochemistry are also prepared for professional schools such as medical school, dental school, pharmacy school, etc.

### Areas in which Chemists are Employed

- environmental
- pharmaceutical drug design
- forensics
- medical research
- agricultural research
- biochemistry/biotechnology
- government: such as EPA, Department of Defense, NIH, NSF
- patent law
- education

## Why Study Chemistry at SFASU?

- 1) The Department of Chemistry is accredited by the American Chemical Society.
- 2) Robert A. Welch Foundation Grant provides about \$30K in scholarships for chemistry annually.
- 3) The Alumni Association has several scholarships specifically for Chemistry majors.
- 4) All chemistry courses taught by faculty with doctorates.
- 5) Small class size and individual attention from faculty.
- 6) Undergraduates have access to all scientific equipment.
- 7) Research opportunities beginning at the sophomore level (stipends available).
- 8) Employment opportunities in the department as a laboratory assistant.
- 9) Active Chemistry Club.
- 10) Scientific speakers and social functions.
- 11) The SFASU Chemistry Department has many successful alumni, i.e. Joseph W. Kennedy – discoverer of plutonium.

## What Degrees are Offered at SFASU?

### Bachelor's Degree

The department offers a Bachelor of Science degree in chemistry or biochemistry. All students must complete a major and a minor (or second major), take the appropriate core curriculum requirements, and have at least 120 semester hours for graduation. Chemistry majors may design an interdisciplinary educational experience by selecting one of the suggested areas of interest or design their own: biochemistry/premedical, biotechnology, chemical education, computer science, environmental chemistry, forensic, general chemist, mathematics, physics, professional chemist, statistics. Biochemistry majors are required to minor in biology.

Each interdisciplinary experience has 23 hours of minor/electives in any area of interest leading to a minor (or second major) of which 11 hours must be approved advanced hours. An American Chemical Society certified B.S. degree has specific course requirements.

### Master's Degree

A minimum of 30 semester hours with 21 hours in chemistry is required for the thesis option. The non-thesis option requires 36 hours with 27 hours in chemistry. Graduate assistantships are available.

### Overlap Program

The Overlap Program permits qualified undergraduates to pursue some graduate study while still an undergraduate.

### Minor

A minimum of 18 hours of chemistry is required with some specific courses required.