## **ACADEMIC MAP** Biochemistry/Preprofessional Concentration, Bachelor of Science



First Year		
Fall		Hours
UNIV 1101	University Seminar I	1
CHEM 1411	General Chemistry I	4
BIOL 1406	Biology I	4
ENGL 1301	Writing and Rhetoric I	3
HIST 1301	U.S. History to 1865	3
	Hours	15
Spring		
UNIV 1102	University Seminar II	1
CHEM 1412	General Chemistry II	4
BIOL 1407	Biology II	4
ENGL 1302	Writing and Rhetoric II	3
MATH 2413	Calculus I	4
	Hours	16
Second Year		
Fall		
CHEM 3411	Organic Chemistry I	4
MATH 1442	Statistics for Life	4
PHYS 1401	General Physics I	4
or PHYS 2425	or University Physics I	
Language, Philos	ophy & Culture Core Requirement	3
	Hours	15
Spring		
CHEM 3412	Organic Chemistry II	4
PHYS 1402	General Physics II	4
or PHYS 2426	or University Physics II	
MATH 2414	Calculus II	4
HIST 1302	U.S. History Since 1865	3
	Hours	15

	Total Hours	12
	Hours	1
Elective to read	sh 120	
Creative Arts Core Requirement		
Biochemistry Elective		
Biochemistry Elective		
Biochemistry Elective		
Spring CHEM 4085	Major Field Test in Chemistry	
Omina	Hours	1
Social and Beh	avioral Sciences Core Requirement	
POLS 2306	State and Local Government	
CHEM 4292	Senior Chemistry Seminar	
Fall CHEM 4423	Physical Chemistry I	
Fourth Year		
	Hours	1
Biochemistry Elective		
BIOL 2416	Genetics	
CHEM 3417	Quantitative Analysis	
CHEM 4402	Biochemistry II	
Spring	Hours	1
CHEM 3418	Instrumental Analysis	
BIOL 2421	Microbiology	
POLS 2305	U.S. Government and Politics	
CHEM 4401	Biochemistry I	
Fall		
Third Year		



# CAREER MAP



## **Biochemistry Pre-Professional Concentration-Chemistry**

**Bachelor of Science** 

The chemistry faculty seeks to provide a high-quality educational experience for students majoring in chemistry in preparation for industrial or government positions, for graduate study, and for entry to medical or dental schools. The program is also designed for those planning to teach chemistry or physics at the 7-12 level, or who need chemical knowledge and skills relevant to future studies in the sciences. The student who wishes to obtain a Bachelor of Science Degree in Chemistry may do so by following one of the four curriculum plans referred to as Concentrations. The options include general, environmental, biochemistry, and physical science education concentrations. Students who are pre-medical, pre-dental, pre-optometry, pre-pharmacy, or pre-veterinary medicine may follow the biochemistry concentration. In addition, the biochemistry concentration offers an option which would allow students to pursue certification in clinical chemistry while obtaining their bachelor's in chemistry.

#### CONTACT INFORMATION

**Career Counselor:** Career and Professional Development Center UC 304 | 361.825.2628 career.center@tamucc.edu

Internship Coordinator: Dr. Fereshteh Billiot CS 207 | 361.825.6067

**Department Contact:** 

Department of Physical and Environmental Sciences CS 130D | 361.825.2857 fereshteh.billiot@tamucc.edu eugene.billiot@tamucc.edu

### SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving •
- Teamwork/Collaboration •
- Professionalism/Work Ethic •
- **Oral/Written Communication** •
- Leadership
- **Digital Technology** •
- **Career Management** •
- Global/Multicultural Fluency .
- Math

## ADDITIONAL PROGRAM REQUIREMENTS

Every candidate for the BS in Chemistry following the general, environmental, or biochemistry concentration must complete the CHEM 4085 Major Field Test in Chemistry (0 sch) during their senior year, prior to graduation.

#### ADDITIONAL SOURCES OF INFORMATION

- 1. American Chemical Society
- 2. American Institute of Chemical Engineers
- 3. American Society of Biochemistry and Molecular Biology

#### CAREER OPTIONS

- Professional School (Medical school, dental school, pharmacy school, optometry, veterinarian school, chiropractic school, etc.)
- Academic Researcher
- Clinical Scientist/Biochemist
- **Analytical Chemist** .
- Forensic Scientist •
- Biotechnologist •
- Nanotechnologist •
- **Chemical Engineer**
- Pharmacologist .
- Secondary education: (Chemistry Teacher, Physics • Teacher)

### STUDENT ORGANIZATIONS

- Chemistry Club
- SACNAS Chapter at Texas A&M University Corpus Christi
- Student Council of Math and Science Teachers

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