

ACADEMIC MAP

Biochemistry/Preprofessional Concentration Biomedical Sciences, Bachelor of Science



First Year		Hours	Third Year		Hours
Fall			Fall		
UNIV 1101	University Seminar I	1	CHEM 4401	Biochemistry I	4
CHEM 1411	General Chemistry I	4	POLS 2305	U.S. Government and Politics	3
BIOL 1406	Biology I	4	BIOL 2421	Microbiology	4
ENGL 1301	Writing and Rhetoric I	3	CHEM 3418	Instrumental Analysis	4
HIST 1301	U.S. History to 1865	3	Hours		15
Hours		15	Spring		
Spring			CHEM 4402	Biochemistry II	4
UNIV 1102	University Seminar II	1	CHEM 3417	Quantitative Analysis	4
CHEM 1412	General Chemistry II	4	BIOL 2416	Genetics	4
BIOL 1407	Biology II	4	Biochemistry Elective		4
ENGL 1302	Writing and Rhetoric II	3	Hours		16
MATH 2413	Calculus I	4	Fourth Year		
Hours		16	Fall		
Second Year			CHEM 4423	Physical Chemistry I	4
Fall			CHEM 4292	Senior Chemistry Seminar	2
CHEM 3411	Organic Chemistry I	4	POLS 2306	State and Local Government	3
MATH 1442	Statistics for Life	4	Social and Behavioral Sciences Core Requirement		3
PHYS 1401	General Physics I	4	Hours		12
or PHYS 2425	or University Physics I		Spring		
Language, Philosophy & Culture Core Requirement		3	CHEM 4085	Major Field Test in Chemistry	0
Hours		15	Biochemistry Elective		3
Spring			Biochemistry Elective		3
CHEM 3412	Organic Chemistry II	4	Biochemistry Elective		3
PHYS 1402	General Physics II	4	Creative Arts Core Requirement		3
or PHYS 2426	or University Physics II		Elective to reach 120		4
MATH 2414	Calculus II	4	Hours		16
HIST 1302	U.S. History Since 1865	3	Total Hours		120
Hours		15			



CAREER MAP

CHEMISTRY-BIOCHEMISTRY/PREPROFESSIONAL CONCENTRATION

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
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Department Contact:

Department of Physical and Environmental Sciences
CS 130D | 361.825.2857
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ADDITIONAL SOURCES OF INFORMATION

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

STUDENT ORGANIZATIONS

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

ADDITIONAL PROGRAM REQUIREMENT

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

CAREER OPTIONS

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

SKILLS/ATTRIBUTES

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