ACADEMIC MAP



Environmental Chemistry Concentration Biomedical Sciences, Bachelor of Science

First Year			Third Year		
Fall		Hours	Fall		
UNIV 1101	University Seminar I	1	CHEM 3418	Instrumental Analysis	4
CHEM 1411	General Chemistry I	4	Environmental Chemistry Elective 4		
ENGL 1301	Writing and Rhetoric I	3	Environmental Chemistry Elective 4		
Biology, Geology, or Environmental Science Course		4	American History Core Requirement		3
Creative Arts Core Requirement		3	Hours		15
	Hours	15	Spring		
Spring			CHEM 3417	Quantitative Analysis	4
UNIV 1102	University Seminar II	1	CHEM 4443	Environmental Chemistry	4
CHEM 1412	General Chemistry II	4	Environmental Chemistry Elective 4		
ENGL 1302	Writing and Rhetoric II	3	American History Core Requirement 3		
MATH 2413	Calculus I	4		Hours	15
Biology, Geology, or Environmental Science Course		4	Fourth Year		
	Hours	16	Fall		
Second Year			CHEM 4423	Physical Chemistry I	4
Fall			POLS 2305	U.S. Government and Politics	3
CHEM 3411	Organic Chemistry I	4	Social and Behavioral Sciences Core Requirement		3
MATH 1442	Statistics for Life	4	Environmental Chemistry Elective 4		
PHYS 1401	General Physics I	4	General Elective		3
or PHYS 2425	or University Physics I			Hours	17
Language, Philosophy and Culture Core Elective		3	Spring		
	Hours	15	CHEM 4424	Physical Chemistry II	4
Spring			CHEM 4292	Senior Chemistry Seminar	2
CHEM 3412	Organic Chemistry II	4	CHEM 4344	Chemical Oceanography	3
PHYS 1402	General Physics II	4	CHEM 4085	Major Field Test in Chemistry	0
or PHYS 2426			Environmental Chemistry Elective 3		
MATH 2414	Calculus II	4	POLS 2306	State and Local Government	3
Social and Behavioral Sciences Core Requirement 3				Hours	15
	Hours	15		Total Hours	123



CAREER MAP



CHEMISTRY-ENVIRONMENTAL CHEMISTRY CONCENTRATION

Rachelor 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 fereshteh.billiot@tamucc.edu

Department Contact:

Department of Physical and Environmental Sciences CS 130D | 361.825.2857 mark.olson@tamucc.edu

ADDITIONAL SOURCES OF INFORMATION

1. American Chemical Society 2. American Institute of Chemical Engineers3. 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

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.)		

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 (0 sch) during their senior year, prior to graduation.

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