ACADEMIC MAP

CHEMISTRY-GENERAL

Bachelor of Science



START HERE

SEMESTER 1 - FALL	CREDITS	COMPLETED
UNIV 1101 UNIVERSITY SEMINAR I	1	\checkmark
CHEM 1411 GENERAL CHEMISTRY I	4	
ENGL 1301 WRITING AND RHETORIC I	3	
HIST 1301 U.S. HISTORY TO 1865	3	
LOWER DIVISIONAL ELECTIVE	4	

TOTAL CREDITS: 15

2			
SEMESTER 2 - SPRING	CREDITS	COMPLETED	L
UNIV 1102 UNIVERSITY SEMINAR II	1		
CHEM 1412 GENERAL CHEMISTRY II	4		ŀ
MATH 2413 CALCULUS I	4		I
ENGL 1302 WRITING AND RHETORIC II	3		ľ
HIST 1302 U.S. HISTORY SINCE 1865	3		
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TOTAL CREDITS: 15

3		
SEMESTER 3 - FALL	CREDITS	COMPLETED
CHEM 3411 ORGANIC CHEMISTRY I	4	
PHYS 1401 OR PHYS 2425 GENERAL PHYSICS I OR UNIVERSITY PHYSICS II	4	
MATH 2414 CALCULUS II	4	
LANGUAGE, PHILOSOPHY & CULTURE CORE REQUIREMENT	3	

TOTAL CREDITS: 15

4			
SEMESTER 4 - SPRING	CREDITS	COMPLETED	
CHEM 3412 ORGANIC CHEMISTRY II	4		E
PHYS 1402 OR PHYS 2426 GENERAL PHYSICS II OR UNIVERSITY PHYSICS II	4		IAX
POLS 2305 U.S. GOVERNMENT AND POLITICS	3		N
MATH 2415 CALCULUS III	4		

TOTAL CREDITS: 15

5		
SEMESTER 5 - FALL	CREDITS	COMPLETED
CHEM 4401 BIOCHEMISTRY I	4	
POLS 2306 STATE AND LOCAL GOVERNMENT	3	
CHEM 4407 ADVANCED INORGANIC CHEMISTRY	4	
CHEM 3418 INSTRUMENTAL ANALYSIS	4	

TOTAL CREDITS: 15

6		
SEMESTER 6 - SPRING	CREDITS COMPLETED	
CHEM 4402 BIOCHEMISTRY II	4	l≓
CHEM 3417 QUANTITATIVE ANALYSIS	4	≱
UPPER DIVISIONAL ELECTIVE	4	ú
CHEMISTRY ELECTIVE	4	

TOTAL CREDITS: 16

SEMESTER 7 - FALL	CREDITS COMPLETED
CHEM 4423 PHYSICAL CHEMISTRY I	4
SOCIAL AND BEHAVIORAL SCIENCES CORE REQUIREMENT	3
CHEMISTRY ELECTIVE	4
GENERAL ELECTIVE	4

TOTAL CREDITS: 15

8			
SEMESTER 8 - SPRING	CREDITS	COMPLETED	
CHEM 4424 PHYSICAL CHEMISTRY II	4		
CHEM 4292 SENIOR CHEMISTRY SEMINAR	2		THE SECOND
CREATIVE ARTS CORE ELECTIVE	3		Z
CHEM 4085 MAJOR FIELD TEST IN CHEMISTRY	0		4
GENERAL ELECTIVE	7		

TOTAL CREDITS: 16

CAREER MAP

CHEMISTRY-GENERAL

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 preveterinary 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 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

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