## CHEMISTRY-GENERAL

## START HERE <br> $\qquad$

| SEMESTER 1-FALL |  |  |
| :--- | :---: | :---: |
| 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

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

TOTAL CREDITS: 15

| 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

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

TOTAL CREDITS: 15

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

TOTAL CREDITS: 15


TOTAL CREDITS: 15


TOTAL CREDITS: 16

| SEMESTER 8 - SPRING | CREDITS COMPLETED |
| :--- | :--- |
| CHEM 4424 PHYSICAL CHEMISTRY II | 4 |
| CHEM 4292 SENIOR CHEMISTRY SEMINAR | 2 |
| CREATIVE ARTS CORE ELECTIVE | 3 |
| CHEM 4085 MAJOR FIELD TEST IN CHEMISTRY | 0 |
| 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 |

## 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.

| CAREER OPTIONS |  |
| :--- | :--- |
| - Academic Researcher | • Clinical Scientist/Biochemist |
| - Analytical Chemist | • Forensic Scientist |
| - Biotechnologist | • Nanotechnologist |
| - Chemical Engineer | - Pharmacologist |
| - Secondary education: <br> (Chemistry Teacher, <br> Physics Teacher) | - Professional School (Medical <br> school, dental school, <br> pharmacy school, optometry, <br> veterinarian school, <br> 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 |

