## ACADEMIC MAP

CHEMISTRY-GRADES 7-12 PHYSICAL SCIENCE EDUCATION
CONCENTRATION | Bachelor of Science
START HERE

| SEMESTER 1 - FALL | 1 |
| :--- | :---: |
| CRIV 1101 UNIVERSITY SEMINAR I | 1 |
| CHEM 1411 GENERAL CHEMISTRY I | 4 |
| ENGL 1301 WRITING AND RHETORIC I | 3 |
| HIST 1301 U.S. HISTORY TO 1865 | 3 |
| BIOL 1406 BIOLOGY I | 4 |


| SEMESTER 2 - SPRING | CREDITS COMPLETED |
| :--- | :--- |
| UNIV 1102 UNIVERSITY SEMINAR II | 1 |
| CHEM 1412 GENERAL CHEMISTRY II | 4 |
| BIOL 1407 BIOLOGY II | 4 |
| ENGL 1302 WRITING AND RHETORIC II | 3 |
| HIST 1302 U.S. HISTORY SINCE 1865 | 3 |

TOTAL CREDITS: 15


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| SUMMER 2 | CREDITS COMPLETED |
| :---: | :---: |
| PSYC 2301 GENERAL PSYCHOLOGY | 3 |
| TOTAL CREDITS: 3 |  |
| SEMESTER 5 - FALL | CREDITS COMPLETED |
| SMTE 4270 SCIENCE EDUCATION TOPICS I | 2 |
| POLS 2306 STATE AND LOCAL GOVERNMENT | 3 |
| CHEM 4407 ADVANCED INORGANIC CHEMISTRY | 4 |
| SMTE 4217 SECONDARY APPROACHES TO THE LIFE SCIENCES | 2 |
| ENGL ELECTIVE | 3 |



TOTAL CREDITS: 15


TOTAL CREDITS: 14

|  | TOTAL CREDITS: 14 |
| :--- | :---: |
| SUMMER 3 | CREDITS COMPLETED |
| SHEM 4401 BIOCHEMISTRY I | 4 |
| EDUC 3311 SCHOOL AND SOCIETY | 3 |

## 136 CREDITS | FINISHED!




TOTAL CREDITS: 16

| SUMMER 4 | CR |
| :--- | :---: |
| READ 3353 CONTENT AREA READING FOR SECONDARY STUDENTS | CREDITS COMPLETED |

## CAREER MAP

## CHEMISTRY-GRADES 7-12 PHYSICAL SCIENCE EDUCATION 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 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 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.

| CAREER OPTIONS |
| :--- |
| - Academic Researcher |
| • Analytical Chemist |
| • Biotechnologist |


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

## ADDITIONAL SOURCES OF INFORMATION

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