

Chemistry B.S. - A.C.S.-Certified Degree with the Environmental Chemistry Concentration

The American Chemical Society professional degree prepares students for careers in a wide variety of positions in industry, government, and education. It is recommended for those students intending to do graduate study in chemistry or seeking employment as chemists in industry. The competencies of students with this degree should meet the criteria for a professional chemist stated by the American Chemical Society.

Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required Courses in the Major

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| CHEM 101 | General Chemistry Tutorial I | 1 |
| CHEM 102 | General Chemistry Tutorial II | 1 |
| CHEM 1111 | General and Quantitative Chemistry Laboratory I * | |
| CHEM 1112 | General and Quantitative Chemistry Laboratory II * | |
| CHEM 1311 | General and Quantitative Chemistry I * | |
| CHEM 1312 | General and Quantitative Chemistry II * | |
| CHEM 2123 | Organic Chemistry Laboratory I | 1 |
| CHEM 2125 | Organic Chemistry Laboratory II | 1 |
| CHEM 201 | Organic Chemistry Tutorial I | 1 |
| CHEM 202 | Organic Chemistry Tutorial II | 1 |
| CHEM 2323 | Organic Chemistry I | 3 |
| CHEM 2325 | Organic Chemistry II | 3 |
| CHEM 330 | Environmental Chemistry | 3 |
| CHEM 340 | Quantitative & Instrumental Analysis | 4 |
| CHEM 351 | Physical Chemistry | 4 |
| CHEM 352 | Physical Chemistry | 4 |
| CHEM 401 | Chemical Sci & Profession | 1-2 |
| CHEM 414 | Biochemistry | 4 |
| CHEM 415 | Advanced Inorganic Chemistry | 4 |
| CHEM 418 | Undergraduate Research | 6 |
| CHEM 441 | Instrumental Analysis | 4 |

Advanced CHEM Elective 3-4

Required Support Courses

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| ENVS 308 | Water Quality | 3 |
| ENVS 402 | Air Pollution Control | 3 |
| MATH 2413 | Calculus I * | |
| MATH 2414 | Calculus II | 4 |
| MATH 2415 | Calculus III | 4 |
| PHYS 2425 | University Physics I | 4 |
| PHYS 2426 | University Physics II | 4 |

2nd Major, Minor or Electives 12

Total Hours 125-127

* These courses will satisfy the Core Curriculum Requirements in Natural Sciences and Mathematics.

First Year

Fall Hours

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Total Hours: 0