# College of Science and Engineering

## Bachelor of Science, Chemistry

### Four-Year Pathway 2021-2022

### Advising Notes for Students:
This document is designed for course planning purposes only. Please refer to the official degree plan and consult with your academic advisor for full graduation requirements.

* FYS 1300 (freshmen only) – University requirement for all students entering with less than 32 completed semester hours credit. These 3 hours may not count in the total degree hours.

100% online students will take a three hour course, ONLN 1300 Introduction to Online Learning, in place of FYS 1300.

## 1st Year

### Fall
- **FYS 1300 Freshman Year Seminar***
- **ENGL 1313 English Comp & Literature**
- **MATH 1434/1034 Precalculus Mathematics with Lab**
- **CHRI 1301 Introduction to the Bible**

### Spring
- **MATH 1451/1051 Calculus I with Lab**
- **CHEM 2416/2016 General Chemistry I with Lab**
- **ENGL 1323 English Comp & Literature II**
- **PHIL 1313 Introduction to Philosophy**

### Semester Credit Hours
- Total Semester Credit Hours (Year 1): 34

## 2nd Year

### Fall
- **CHEM 3313/3131 Organic Chemistry I with Lab**
- **GOVT 2313 American & Texas Government**
- **PSYC 1313 General Psychology**
- **ENGL 2315 or 2325 Great Works of Literature I or II**

### Spring
- **CHEM 3333/3132 Organic Chemistry II with Lab**
- **CHEM 2423 Quantitative Analysis**
- **CHRI 2373 Christian Theology and Tradition**
- **HIST 2312, 2313, or 2323 Western Civilization II, US History to 1877, or US History 1877 to Present**

### Semester Credit Hours
- Total Semester Credit Hours (Year 2): 61

## 3rd Year

### Fall
- **PHYS 2413 Principles of Physics I**
- **CHEM 4173/4171 Biochemistry I with Lab**
- **COMM 1323 Rhetoric & Public Speaking**
- **ART 2343 or MUSI 1331 Art Appreciation or Music Appreciation**

### Spring
- **CHEM 4414 Introductory Physical Chemistry or CHEM 3443 Modern Analytical Techniques (offered alternating years)**
- **CHEM 4374 Biochemistry II**
- **PHYS 2423 Principles of Physics II**
- **PSYC 2301 Intro Statistics for the Behavioral Sciences**

### Semester Credit Hours
- Total Semester Credit Hours (Year 3): 92

## 4th Year

### Fall
- **CHEM 3351 Inorganic Chemistry**
- **CHEM 4161 Advanced Organic Chemistry**
- **SOCI 1313 Principles of Sociology**
- **MATH 1452 Calculus II**
- **BIOL 2454 General Biology I**

### Spring
- **CHEM 4291 Senior Research Project**
- **CHEM 4414 Introductory Physical Chemistry or CHEM 3443 Modern Analytical Techniques (offered alternating years)**
- **BIOL 2455 General Biology II**
- **PSYC 2364 Abnormal Psychology**
- **General Elective**

### Semester Credit Hours
- Total Semester Credit Hours (Year 4): 125

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