

Bachelor of Science, Chemistry (Biochemistry and Medicine Concentration)

CORE REQUIREMENTS

Department of Chemistry

936.294.1532

chemistry@shsu.edu

| Course Name | Hours | TCCNS | SHSU |
|---|-------|-----------|-----------|
| Communication (6 hours) | | | |
| Composition I | 3 | ENGL 1301 | ENGL 1301 |
| Composition II | 3 | ENGL 1302 | ENGL 1302 |
| Mathematics (3 hours)¹ | | | |
| Calculus I | 4 | MATH 2413 | MATH 1420 |
| Life & Physical Sciences (6 hours)² | | | |
| Choose <u>two</u> courses from your current Texas community college's core approved list. | | | |
| Language, Philosophy, & Culture (3 hours) | | | |
| Choose <u>one</u> course from your current Texas community college's core approved list. | | | |
| Creative Arts (3 hours) | | | |
| Choose <u>one</u> course from your current Texas community college's core approved list. | | | |
| American History (6 hours) | | | |
| United States History to 1876 | 3 | HIST 1301 | HSTY 1301 |
| United States History since 1876 | 3 | HIST 1302 | HSTY 1302 |
| Government/Political Science (6 hours) | | | |
| American Government | 3 | GOVT 2305 | POLS 2305 |
| Texas Government | 3 | GOVT 2306 | POLS 2306 |
| Social & Behavioral Science (3 hours) | | | |
| Choose <u>one</u> course from your current Texas community college's core approved list. | | | |
| Component Area Option Recommendations (6 hours)¹ | | | |
| Choose <u>two</u> courses from your current Texas community college's core approved list. | | | |

MAJOR REQUIREMENTS

Full degree can be found here: <https://www.shsu.edu/programs/bachelor-of-science-in-chemistry>

| Course Name | Hours | TCCNS | SHSU |
|--|-------|-----------------------------|-----------------------------|
| Calculus II | 4 | MATH 2414 | MATH 1430 |
| General Chemistry I | 4 | CHEM 1411 | CHEM 1411 |
| General Chemistry II | 4 | CHEM 1412 | CHEM 1412 |
| Organic Chemistry I Lecture & Lab | 4 | CHEM 2323/2123 | CHEM 2323/2123 |
| Organic Chemistry II Lecture & Lab | 4 | CHEM 2325/2125 | CHEM 2325/2125 |
| General Physics Mechanics & Physics Lab I OR Introduction to Physics I | 4 | PHYS 1301/1101 PHYS 2425 | PHYS 1301/1101 PHYS 1411 |
| General Physics-Sound, Light, Electricity, & Magnetism, & Physics Lab II OR Introduction to Physics II | 4 | PHYS 1302/1102 PHYS 2426 | PHYS 1302/1102 PHYS 1422 |
| Human Anatomy & Physiology I ³ | 4 | BIOL 2401 | BIOL 2403 |
| Human Anatomy & Physiology II ³ | 4 | BIOL 2402 | BIOL 2404 |
| Elementary Statistics ³ | 3 | MATH 1342 | MATH 1342 |
| General Biology I | 4 | BIOL 1406 | BIOL 1406 |
| General Biology II | 4 | BIOL 1407 | BIOL 1407 |

*SHSU accepts a maximum of 70 credit hours: 66 academic hours + 4 hours of activity-based physical education (kinesiology) hours.

Students must earn a 2.0 minimum overall GPA in all coursework, overall major GPA in all major coursework, SHSU GPA in all coursework, and SHSU major GPA in all major coursework.

A minor is not required in addition to the Biochemistry and Medicine Concentration.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 3367, and CHEM 4448 and in all required Physics and Mathematics courses.

1 - MATH 1420 requirement for Core Curriculum Component Area II (Mathematics) as well as one hour of Component Area IX (Component Area Option).

2 - CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Major Specific requirement.

3 - Count as prescribed electives for concentration