

Bachelors (BS) in Biochemistry Course Plan

Catalog Year 2019-2020

Legend

*** Major Requirement**

Must be taken to fulfill major requirements.

† Major Elective

Must be taken to fulfill major requirements, or replaced with an equivalent course.

‡ Gen-Ed Requirement

Must be taken to fulfill general education requirements.

§ Elective

Can be chosen from a selection of courses.

See MyGFU for detailed academic requirements.

First Year

Fall Semester

| | |
|--------------------------------------|-------------------|
| General Chemistry I (CHEM 211) * | 4 credits |
| General Biology I (BIOL 211) * | 4 credits |
| Calculus I (MATH 201) * | 4 credits |
| Knowing and Being Known (LIBA 100) ‡ | 3 credits |
| I Believe (THEO 101) ‡ | 3 credits |
| Semester Total | 18 credits |
| Cumulative Total | 18 credits |

Spring Semester

| | |
|-----------------------------------|-------------------|
| General Chemistry II (CHEM 212) * | 4 credits |
| General Biology II (BIOL 212) * | 4 credits |
| Calculus II (MATH 202) * | 4 credits |
| I Believe (THEO 102) ‡ | 3 credits |
| Lifelong Fitness (HHPA 120) ‡ | 2 credits |
| Semester Total | 17 credits |
| Cumulative Total | 35 credits |

Second Year

Fall Semester

| | |
|---|-------------------|
| Organic Chemistry I (CHEM 331) * | 4 credits |
| General Physics or General Physics w/Calculus (spring semester) (PHYS 201 or 212) * | 4 credits |
| Social Science GE Requirement ‡ | 3 credits |
| Introduction to Communication (COMM 100) ‡ | 3 credits |
| Semester Total | 14 credits |
| Cumulative Total | 49 credits |

Spring Semester

| | |
|---|-------------------|
| Organic Chemistry II (CHEM 332) * | 4 credits |
| General Physics or General Physics w/Calculus (spring semester) (PHYS 202 or 211) * | 4 credits |
| HUMA 205 or Alternate Literature and Philosophy GE Requirement ‡ | 3 credits |
| Bible Elective GE Requirement ‡ | 3 credits |
| History/Political Science/International Studies GE Requirement ‡ | 3 credits |
| Semester Total | 17 credits |
| Cumulative Total | 66 credits |

Third Year

Fall Semester

| | |
|--|-------------------|
| Biochemistry I (CHEM 341) * | 4 credits |
| Thermodynamics (CHEM 440**) * | 4 credits |
| HUMA 290 or Alternate Fine Arts GE Requirement ‡ | 3 credits |
| Electives § | 2 credits |
| Semester Total | 13 credits |
| Cumulative Total | 79 credits |

Spring Semester

| | |
|---|-------------------|
| Biochemistry II (CHEM 342) * | 4 credits |
| Required Chemistry Elective for Major † | 3 credits |
| Intercultural GE Requirement ‡ | 3 credits |
| Electives * | 6 credits |
| Semester Total | 16 credits |
| Cumulative Total | 95 credits |

Fourth Year

Fall Semester

| | |
|-------------------------------------|-----------|
| Analytical Chemistry (CHEM 310**) * | 4 credits |
|-------------------------------------|-----------|

| | |
|--|--------------------|
| Chemistry Seminar (CHEM 461) * | 1 credits |
| Required Biology Elective for Major † | 4 credits |
| Engaging Christ in Transition (LIBA 400) ‡ | 3 credits |
| Electives § | 4 credits |
| Semester Total | 16 credits |
| Cumulative Total | 111 credits |

Spring Semester

| | |
|-------------------------------------|--------------------|
| Experimental Chemistry (CHEM 462) * | 2 credits |
| Elective § | 13 credits |
| Semester Total | 15 credits |
| Cumulative Total | 126 credits |

Notes

PHYS 211 is only offered in the spring semester and PHYS 212 is only offered in the fall semester.

**Class offered on alternate years. Adjust schedule as necessary. See department advisor for additional information.