

Biology - Cell & Molecular Biology Course Plan

Catalog Year 2020-2021

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 Biology I (BIOL 211) * | 4 credits |
| Math GE Requirement* (MATH 190 or 201 recommended) ‡ | 4 credits |
| THEO 101 (I Believe) ‡ | 3 credits |
| Knowing and Being Known (LIBA 100) ‡ | 3 credits |
| Elective Credit § | 3 credits |
| Semester Total | 17 credits |
| Cumulative Total | 17 credits |

Spring Semester

| | |
|--|-------------------|
| General Biology II (BIOL 212) * | 4 credits |
| Math Elective* (MATH 240 recommended) † | 3 credits |
| I Believe (THEO 102) ‡ | 3 credits |
| Introduction to Communication (COMM 100) ‡ | 3 credits |
| Social Science GE Requirement** (PSYS 150 or SOCI 150 recommended) ‡ | 3 credits |
| Semester Total | 16 credits |
| Cumulative Total | 33 credits |

Second Year

Fall Semester

| | |
|--|-------------------|
| Genetics (BIOL 350) * | 4 credits |
| General Chemistry I (CHEM 211) * | 4 credits |
| Lifelong Fitness (HHPA 120) ‡ | 2 credits |
| HUMA 205 or Alternate Philosophy & Literature GE Requirement ‡ | 3 credits |
| Elective Credits § | 3 credits |
| Semester Total | 16 credits |
| Cumulative Total | 49 credits |

Spring Semester

| | |
|--|-------------------|
| Microbiology (or upper division BIOL elective) (BIOL 370) * | 4 credits |
| General Chemistry II (CHEM 212) * | 4 credits |
| Bible Elective GE Requirement (THEO 215 or 315) ‡ | 3 credits |
| Elective Credits § | 6 credits |
| Semester Total | 17 credits |
| Cumulative Total | 66 credits |

Third Year

Fall Semester

| | |
|---|-------------------|
| Cell Biology (BIOL 420) * | 4 credits |
| Organic Chemistry I (CHEM 331) * | 4 credits |
| History/Politics/International Studies GE Requirement ‡ | 3 credits |
| HUMA 290 or Alternate Fine Arts Requirement ‡ | 3 credits |
| Elective Credits § | 3 credits |
| Semester Total | 17 credits |
| Cumulative Total | 83 credits |

Spring Semester

| | |
|--|-------------------|
| Biological Exploration*** (BIOL 490) * | 2 credits |
| Molecular Biology (BIOL 410) * | 4 credits |
| Organic Chemistry II (CHEM 332) * | 4 credits |
| Intercultural GE Requirement ‡ | 3 credits |
| Elective Credits § | 3 credits |
| Semester Total | 16 credits |
| Cumulative Total | 99 credits |

Fourth Year

Fall Semester

| | |
|--------------------|-----------|
| Biology Elective † | 4 credits |
|--------------------|-----------|

| | |
|--|--------------------|
| Biochemistry I (strongly recommended) (CHEM 341) § | 4 credits |
| Engaging Christ in Transition (LIBA 400) ‡ | 3 credits |
| Elective Credits § | 6 credits |
| Semester Total | 17 credits |
| Cumulative Total | 116 credits |

Spring Semester

| | |
|---|--------------------|
| Biology Field Studies Elective † | 4 credits |
| Biochemistry II (strongly recommended) (CHEM 342) § | 4 credits |
| Elective Credits § | 6 credits |
| Semester Total | 14 credits |
| Cumulative Total | 130 credits |

Notes

*To fulfill GE Requirements students can take MATH 150, MATH 180, MATH 190, MATH 201, or CSIS 201. To fulfill Biology Major Requirements students need to take MATH 201, MATH 240 (recommended, but does not meet GE requirements), or CSIS 201 (offered in the Fall). It is recommended that students take either MATH 190/201 or CSIS 201 and MATH 240. Please talk with your CAP Coach or Faculty Advisor for more information about these options.

**Students taking a Pre-med track should consider taking both PSYC 150 and SOCI 150

***BIOL 490 is only offered in the Spring Semester