

Bachelor of Arts in Biochemistry Degree Requirements

1) Mathematics (MATH)

- | | | |
|----------------------------------|----|----------------------------------|
| Regular | or | Honors Calculus |
| <input type="checkbox"/> 124 (5) | | <input type="checkbox"/> 134 (5) |
| <input type="checkbox"/> 125 (5) | | <input type="checkbox"/> 135 (5) |
| <input type="checkbox"/> 126 (5) | | <input type="checkbox"/> 136 (5) |

2) General Chemistry (CHEM)

- | | | |
|----------------------------------|----|----------------------------------|
| Regular | or | Honors |
| <input type="checkbox"/> 142 (5) | | <input type="checkbox"/> 145 (5) |
| <input type="checkbox"/> 152 (5) | | <input type="checkbox"/> 155 (5) |
| <input type="checkbox"/> 162 (5) | | <input type="checkbox"/> 165 (5) |

3) Organic Chemistry (CHEM)

- | | | |
|----------------------------------|----|----------------------------------|
| Regular | or | Honors |
| <input type="checkbox"/> 237 (4) | | <input type="checkbox"/> 335 (4) |
| <input type="checkbox"/> 238 (4) | | <input type="checkbox"/> 336 (4) |
| <input type="checkbox"/> 239 (3) | | <input type="checkbox"/> 337 (4) |
| Laboratory | | |
| <input type="checkbox"/> 241 (3) | | <input type="checkbox"/> 346 (3) |
| <input type="checkbox"/> 242 (3) | | <input type="checkbox"/> 347 (3) |

4) Biology (BIOL)

- 180 (5)
- 200 (5)

5) Physics (PHYS)

- | | | |
|----------------------------------|----|----------------------------------|
| Calculus-based | or | Algebra-based |
| <input type="checkbox"/> 121 (5) | | <input type="checkbox"/> 114 (4) |
| <input type="checkbox"/> 122 (5) | | <input type="checkbox"/> 115 (4) |
| <input type="checkbox"/> 123 (5) | | <input type="checkbox"/> 116 (4) |

The calculus-based series is recommended.
Note: One credit lab is included with each course in the calculus-based physics. If algebra-based physics taken, students must take one lab from below.

- One quarter of physics laboratory
- 117, 118, 119 (1)

6) Biochemistry (BIOC)

- 405 (3)
- 406 (3)

7) Physical Chemistry (CHEM)

- 452 (3)
- 453 (3)

8) Science Electives

Eight credits from courses on the following list are required.

- | | |
|---|--|
| <input type="checkbox"/> Amath 351 (3)* | <input type="checkbox"/> Chem 461 (3) |
| <input type="checkbox"/> Amath 352 (3)* | <input type="checkbox"/> Chem 462 (2 or 3) |
| <input type="checkbox"/> Biol 220 (5) | <input type="checkbox"/> Chem 463 (2) |
| <input type="checkbox"/> Chem 312 (3) | <input type="checkbox"/> Chem 464 (3) |
| <input type="checkbox"/> Chem 317 (4) | <input type="checkbox"/> Chem 465 (3) |
| <input type="checkbox"/> Chem 321 (5) | <input type="checkbox"/> Genome 371 (5) |
| <input type="checkbox"/> Chem 410 (2) | <input type="checkbox"/> Immun 441 (4) |
| <input type="checkbox"/> Chem 416 (3) | <input type="checkbox"/> Math 307 (3)* |
| <input type="checkbox"/> Chem 417 (3) | <input type="checkbox"/> Math 308 (3)* |
| <input type="checkbox"/> Chem 418 (3) | <input type="checkbox"/> MHE 411 (3) |
| <input type="checkbox"/> Chem 419 (3) | <input type="checkbox"/> Microm 402 (3) |
| <input type="checkbox"/> Chem 426 (3) | <input type="checkbox"/> Microm 410 (3) |
| <input type="checkbox"/> Chem 428 (3) | <input type="checkbox"/> Microm 411 (5) |
| <input type="checkbox"/> Chem 429 (3) | |
| <input type="checkbox"/> Chem 436 (3) | |
| <input type="checkbox"/> Chem 460 (3) | |

- *Limit of 3 credits allowed from specified Math & Amath courses.
- Up to 3 credits of advanced undergraduate research may count toward this requirement. Research conducted outside Chemistry or Biochemistry must first be approved by one of the biochemistry advisers.
- Additional 400 level science courses may be considered for science electives after consultation and a petition is submitted to the biochemistry advisers.