REQUIREMENTS FOR THE BIOCHEMISTRY MAJOR

Grade Requirement: All courses required for the Biochemistry major (CH, MATH, PHYS, BI courses) must be graded and passed with a grade of C- or better.

Core Chemistry Courses:
- General Chemistry: CH 221, 222, 223 OR CH 224H, 225H, 226H
- General Chemistry Lab: CH 227, 228, 229 OR CH 237, 238, 239
- Organic Chemistry: CH 341, 342, 343
- Organic Chemistry Lab: CH 337, 348
- Biochemistry: CH 461, 462, 463
- Biochemistry Lab: CH 467
- Physical Chemistry: CH 411, 412

Biology, Math & Physics:
- Biology: BI 281H, 282H, 320
- Calculus: MATH 251, 252, 253
- Physics: PHYS 201, 202, 203 OR PHYS 251, 252, 253

Physical Lab Requirement: PHYS 204, 205, 206 OR PHYS 290, 290, 290 OR CH 417, 418

Advanced Lab Requirement:
- Option 1) One term of a 400 level chemistry lab course
- Option 2) At least one year of undergraduate research (written report required)

Advanced Electives: Five approved courses at the 400-level in Chemistry, Biology and Physics.

In addition to the courses listed above, the UO General Education Requirements must be satisfied (either by taking sufficient Writing, Multicultural, Arts & Letters, and Social Science classes or completing the R. D. Clark Honors College requirements).

Sample Biochemistry Major Program

<table>
<thead>
<tr>
<th>Core Chemistry Courses</th>
<th>Additional Courses</th>
<th>Related Science Requirements</th>
<th>Required University</th>
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<tbody>
<tr>
<td>First Year</td>
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<td>WR 121-122</td>
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<tr>
<td>General Chemistry</td>
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<td>Group satisfying</td>
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<tr>
<td>General Chemistry Lab</td>
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<td>courses from Arts</td>
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<td>and Letters</td>
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<td>Second Year</td>
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<td>and Social Sciences</td>
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<td>Organic Chemistry</td>
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<td>(15 credits for each</td>
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<tr>
<td>Organic Chemistry Lab</td>
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<td>group)</td>
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<td>Third Year</td>
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<td>Biochemistry</td>
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<td>Biochemistry Lab</td>
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<tr>
<td>Fourth Year</td>
<td>Physical Chemistry</td>
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<td>2 Multicultural</td>
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<tr>
<td>Physical Chemistry</td>
<td>CH 411 and CH 412</td>
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<td>Courses</td>
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</tbody>
</table>

1 CH 331, 335, 336 may be substituted for CH 341, 342, 343
2 Courses cannot be used to satisfy requirements in more than one area
3 If your math placement test does not place you in MATH 251, begin with the course you are placed into and take one math course each term until you finish all required math courses.
# Biochemistry - B.S. Degree Checklist¹

## General Chemistry
- CH 221 or 224H
- CH 222 or 225H
- CH 223 or 226H

## Organic Chemistry
- CH 341
- CH 337
- CH 342
- CH 348
- CH 343

## Biology
- BI 281H
- BI 282H
- BI 320

## Math
- MATH 251
- MATH 252
- MATH 253

## Physics
- PHYS 201 or 251
- PHYS 202 or 252
- PHYS 203 or 253

## Biochemistry
- CH 461
- CH 462
- CH 463

## Physical Chemistry
- CH 411
- CH 412

### Physical Lab Requirement²
- PHYS 204, 205, 206
- CH 417, 418

### Advanced Lab Requirement² (one option below)
- One 400-level Chemistry Lab: CH ______
- At least one year of Undergraduate Research (written report required)

### Advanced Electives² (Five 400-level approved courses in Chemistry and Biology)³
- □
- □
- □
- □
- □

## University Requirements
### Core Ed
- WR 121
- WR 122 or 123
- Multicultural Requirement - two courses
  - Effective Fall 2019: □ US □ GP
  - Pre-Fall 2019 (check two): □ AC □ IP □ IC

### Areas of Inquiry
- Arts & Letters Group (15 cr. – must double up in one subject)⁴
- Social Science Group (15 cr. – must double up in one subject)⁴

### Other Requirements
- □ 180 credits
- □ 62 upper division credits
- □ UO Residency Requirement (After completing 120 cr., at least 45 cr. must be at the UO)
- □ 168 ABCDP* credits (ABCDP* = graded or P if the course is taught P/N only)
- □ 45 ABCD credits at UO (ABCD = graded credits)

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¹ All courses used for the major must be graded and passed with a C- or better
² Courses cannot be used to satisfy requirements in more than one area
³ Students may use ONE approved 300-level biology course (BI 321, 322, 328 or 360)
⁴ No more than three courses in any subject may be used to satisfy the group requirements