

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 ¹	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:²	
PHYS 204, 205, 206 OR PHYS 290, 290, 290 OR CH 417, 418	
Advanced Lab Requirement:²	
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:²	
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

	Core Chemistry Courses	Additional Courses	Related Science Requirements	Required University
First Year	General Chemistry General Chemistry Lab		Math ³	WR 121-122 Group satisfying courses from Arts and Letters and Social Sciences (15 credits for each group) 2 Multicultural Courses
Second Year	Organic Chemistry Organic Chemistry Lab	Undergraduate Research	Biology BI 281H, BI 282H, BI 320	
Third Year	Biochemistry Biochemistry Lab	Physical Lab	Physics	
Fourth Year	Physical Chemistry CH 411 and CH 412	Advanced Electives		

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.

Name:

ID#:

Biochemistry - B.S. Degree Checklist¹

General Chemistry

- CH 221 or 224H
- CH 222 or 225H
- CH 223 or 226H
- CH 227 or 237
- CH 228 or 238
- CH 229 or 239

Organic Chemistry

- CH 341
- CH 342
- CH 343
- CH 337
- CH 348

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
- CH 467

Physical Chemistry

(note math and physics prereqs)

- CH 411
- CH 412

Physical Lab Requirement²

- PHYS 204, 205, 206
- or
- 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

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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
- 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)

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

Advisor:

Date: