

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 221z, 222z, 223z OR CH 224H, 225H, 226H
General Chemistry Lab	CH (217+227z), (218+228z), (219+229z OR 329)
Organic Chemistry	CH 341, 342, 343
Organic Chemistry Lab	CH 347, 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 251z, 252z, 253z
Physics	PHYS 201, 202, 203 OR PHYS 251, 252, 253

Physical Lab Requirement:¹

PHYS 204, 205, 206 OR PHYS 290, 290, 290 OR CH 417, 418

Advanced Lab Requirement:¹

- Option 1) One term of a 400-level chemistry lab course
- Option 2) At least one year (6 cr) of undergraduate research (written report required)

Advanced Biochemistry Electives:¹ Select two from CH 464, 465, 466, 468

Other Advanced Electives:¹ Three approved upper-division courses.

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

¹ Courses cannot be used to satisfy requirements in more than one area

On the following pages are sample four-year plans. The main differences between the plans are the initial chemistry and math courses, and how the advanced electives are met. Note that these are just examples, and you should work with an academic advisor to come up with an academic plan for you.

Plan #1: Beginning with CH 224H and Math 251z

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 224H	4	CH 225H	4	CH 226H	4
CH 217+227z	2	CH 218+228z	2	CH 329	3
Math 251z	4	Math 252z	4	Math 253	4
Core Ed	4	WR 121z	4	WR 122z	4

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 341	4	CH 342	4	CH 343	4
CH 347	3	CH 348	4	BI 320	4
BI 281H	6	BI 282H	6	Core Ed	4
Core Ed	4	Core Ed	4	Core Ed	4

Year 3

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 461	4	CH 463	4	CH 462	4
CH 467	4	PHYS 252	4	PHYS 253	4
PHYS 251	4	PHYS 290	1	PHYS 290	1
PHYS 290	1	CH 401	1	CH 401	1
CH 401	1	Core Ed	4	Core Ed	4

Year 4

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 401	1	CH 401	1	CH 401	1
CH 411	4	CH 412	4	AdvBIC	4
CH 46x	4	CH 46x	4	Core Ed	4
AdvBIC	4	AdvBIC	4	Elective	4
Core Ed	4	Core Ed	4		

Total Credits = 183

Plan #2: Beginning with CH 221z and Math 112z

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 221z	4	CH 222z	4	CH 223z	4
CH 217+227z	2	CH 218+228z	2	CH 219+229z	2
Math 112z	4	Math 251z	4	Math 252z	4
Core Ed	4	WR 121z	4	WR 122z	4

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 341	4	CH 342	4	CH 343	4
CH 347	3	CH 348	4	BI 320	4
BI 281H	6	BI 282H	6	Core Ed	4
Math 253z	4	Core Ed	4	Core Ed	4

Year 3

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 461	4	CH 463	4	CH 462	4
CH 467	4	PHYS 202	4	PHYS 203	4
PHYS 201	4	PHYS 205	2	PHYS 206	2
PHYS 204	2	Core Ed	4	Core Ed	4

Year 4

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 411	4	CH 412	4	AdvBIC	4
CH 417	4	CH 46x	4	Core Ed	4
CH 46x	4	AdvBIC	4	Core Ed	4
AdvBIC	4	Core Ed	4	Core Ed	4

Total Credits = 183

Plan #3: Beginning with CH 111 and Math 111z

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 111	4	CH 221z	4	CH 222z	4
Math 111z	4	CH 217+227z	2	CH 218+228z	2
Core Ed	4	Math 112	4	Math 251	4
Core Ed	4	WR 121	4	WR 122	4

CH 223z/229z must be taken in the summer between years 1 and 2!!

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 341	4	CH 342	4	CH 343	4
CH 347	3	CH 348	4	BI 320	4
BI 281H	6	BI 282H	6	Core Ed	4
Math 252	4	Math 253	4	Core Ed	4

Year 3

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 461	4	CH 463	4	CH 462	4
CH 467	4	PHYS 202	4	PHYS 203	4
PHYS 201	4	PHYS 205	2	PHYS 206	2
PHYS 204	2	Core Ed	4	Core Ed	4

Year 4

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 411	4	CH 412	4	AdvBIC	4
CH 417	4	CH 46x	4	Core Ed	4
CH 46x	4	AdvBIC	4	Core Ed	4
AdvBIC	4	Core Ed	4	Core Ed	4

Total Credits = 189