

REQUIREMENTS FOR THE CHEMISTRY MAJOR

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

Core Chemistry Courses:

General Chemistry	CH 221z, 222z, 223z OR CH 224H, 225H, 226H
General Chemistry Lab	CH 227z, 228z, (229z OR 329)
Chemistry Tools	CH 230
Organic Chemistry	CH 341, 342, 343
Organic Chemistry Lab	CH 347, 348, 349
Physical Chemistry	CH 411, 412, 413
Physical Chemistry Lab	CH 417, 418, 419
Instrumental Analysis	CH 429

Math & Physics:

Calculus	MATH 251z, 252z, 253z
Differential Equations	MATH 256
Multivariable Calculus	MATH 281
Physics	PHYS 201, 202, 203 OR PHYS 251, 252, 253
Physics Lab	PHYS 204, 205, 206 OR PHYS 290 x 3

Advanced Electives:

- Option 1) Three approved upper-division courses
- Option 2) One approved upper-division course + six credits of research (CH 401)
- Option 3) Nine credits of research (CH 401)

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).

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 227z	1	CH 228z	1	CH 229z	1
Math 251z	4	Math 252z	4	CH 230	4
Core Ed	4	WR 121z	4	Math 253z	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	CH 349	4
Math 256	4	Math 281	4	PHYS 253	4
PHYS 251	4	PHYS 252	4	PHYS 290	1
PHYS 290	1	PHYS 290	1	Core Ed	4

Year 3

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 411	4	CH 412	4	CH 413	4
CH 417	4	CH 418	4	CH 419	4
Core Ed	4	Core Ed	4	Core Ed	4
CH 401	1	CH 401	1	CH 401	1

Year 4

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 401	2	CH 401	2	CH 429	5
Core Ed	4	Core Ed	4	CH 401	2
Core Ed	4	Core Ed	4	Core Ed	4

Total credits shown = 162

Students will need to add electives in years 3 and 4 to get the total credits up to 180.

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 227z	1	CH 228z	1	CH 229z	1
Math 112z	4	Math 251z	4	CH 230	4
Core Ed	4	WR 121z	4	Math 252z	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	CH 349	4
PHYS 251	4	PHYS 252	4	PHYS 253	4
PHYS 290	1	PHYS 290	1	PHYS 290	1
Math 253z	4	Math 256	4	Math 281	4

Year 3

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 411	4	CH 412	4	CH 413	4
CH 417	4	CH 418	4	CH 419	4
Core Ed	4	Core Ed	4	Core Ed	4
Core Ed	4				

Year 4

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
Adv El	4	Adv El	4	CH 429	5
Core Ed	4	Adv El	4	Core Ed	4
Core Ed	4	Core Ed	4	Core Ed	4

Total credits shown = 170

Students will need to add electives in years 3 and 4 to get the total credits up to 180.

Plan #3: Beginning with CH 150z and Math 111z

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 150z	4	CH 221z	4	CH 222z	4
Math 111z	4	CH 227z	1	CH 228z	1
Core Ed	4	Math 112z	4	CH 230	4
Core Ed	4	WR 121z	4	Math 251z	4
				WR 122z	4

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 223z	4	PHYS 252	4	PHYS 253	4
CH 229z	1	PHYS 290	1	PHYS 290	1
PHYS 251	4	Math 253z	4	Math 281	4
PHYS 290	1	Core Ed	4	Core Ed	4
Math 252z	4	Core Ed	4	Core Ed	4

Year 3

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 341	4	CH 342	4	CH 343	4
CH 347	3	CH 348	4	CH 349	4
Math 256	4	Core Ed	4	Core Ed	4
Core Ed	4	Core Ed	4	elective	4

Year 4

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 411	4	CH 412	4	CH 413	4
CH 417	4	CH 418	4	CH 419	4
Adv El	4	Adv El	4	CH 429	5
		Adv El	4		

Total credits = 182