

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 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, 349		
Physical Chemistry	CH 411, 412, 413		
Physical Chemistry Lab	CH 417, 418, 419		
Instrumental Analysis	CH 429		

Math & Physics:

Calculus	MATH 251, 252, 253		
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 251

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 224H	4	CH 225H	4	CH 226H	4
CH 227	2	CH 228	2	CH 229	2
Math 251	4	Math 252	4	Math 253	4
Core Ed	4	WR 121	4	WR 122	4

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 341	4	CH 342	4	CH 343	4
CH 337	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 = 155

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

Plan #2: Beginning with CH 221 and Math 112

Year 1

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

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 341	4	CH 342	4	CH 343	4
CH 337	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 253	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 = 169

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

Plan #3: Beginning with CH 111 and Math 111

Year 1

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

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CH 223	4	PHYS 252	4	PHYS 253	4
CH 229	2	PHYS 290	1	PHYS 290	1
PHYS 251	4	Math 253	4	Math 281	4
PHYS 290	1	Core Ed	4	Core Ed	4
Math 252	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 337	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
elective	4	Adv El	4		

Total credits = 182