

# Sample Program Plan Chemistry-Biochemistry Degree Chemistry Pathway (Non-Calculus-Ready)

05/2022

<i><b>Freshman Year</b></i>					
Fall		Winter		Spring	
CHEM 204/204L Gen. Chemistry [1]	5	CHEM 205/205L Gen. Chemistry	5	CHEM 206/206L General Chemistry	5
MATH 111 (College Algebra)	4	MATH 112 Pre-Calculus	4	CHEM 285 Chemical Safety	1
Total Credits		Total Credits		Total Credits	
9		9		6	
<i><b>Sophomore Year</b></i>					
Fall		Winter		Spring	
CHEM 334 Organic Chemistry I	4	CHEM 335 Organic Chemistry II	4	CHEM 336 Organic Chemistry III	4
CS 161 Foundations of Computer Sci	4	CHEM 338 Org. Chemistry I Lab	1	CHEM 339 Organic Chemistry II Lab	1
MATH251 Calculus I	4	MATH 252 Calculus II	4	MATH 253 Calculus III	4
CHEM 401 Research	1				
Total Credits		Total Credits		Total Credits	
13		9		9	
<i><b>Junior Year</b></i>					
Fall		Winter		Spring	
PHYS 201/201L General Physics [2]	5	PHYS 202/202L General Physics	5	PHYS 203/203L General Physics	5
CHEM 320 Analytical Chemistry	3	CHEM 421 Instrumental Analysis	3	CHEM 340 Physical Chemistry	4
CHEM 321 Analytical Chem Lab	2	CHEM 422 Inst. Analysis Lab	2	CHEM 360 Environmental Chem	4
				CHEM 361 Enviro. Chem Lab	1
Total Credits		Total Credits		Total Credits	
10		10		14	
<i><b>Senior Year</b></i>					
Fall		Winter		Spring	
CHEM 406 Seminar	1	CHEM 407 Seminar	1	CHEM 408 Seminar (Capstone)	1
		CHEM 437 Organic Spec. [3]	2	CHEM 411 Inorganic Chemistry [3]	4
				CHEM 412 Inorganic Chem. Lab [3]	1
Total Credits		Total Credits		Total Credits	
1		3		6	

[1] Students not meeting admissions requirements to CHEM 204, 205, & 206 should enroll in CHEM 101, 102, & 103

[2] PHYS 201-203 OR PHYS 221-223

[3] CHEM411, 412, & 437 are on alternate year rotation