

Bachelor of Science - Chemistry - Biochemistry Concentration
First Time Freshman Academic Roadmap

Year 1: Freshman Year				Year Total				30
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
CHEM 2100 (GE B1)	Fall & Spring	College Math (Corequisite)	4	CHEM 2200	Fall & Spring	CHEM 2100	4	
CHEM 2100L (GE B3)	Fall & Spring	CHEM 2100 (Corequisite)	1	CHEM 2200L	Fall & Spring	CHEM 2200 (Corequisite)	1	
MATH 2210 (GE B4)	Fall & Spring	MATH 1401	4	MATH 2220	Fall & Spring	MATH 2210	4	
Foundation Seminar (GE E)	Fall & Spring		3	Critical Thinking (GE A3)	Fall & Spring		3	
Oral Communication (GE A1)	Fall & Spring		3	Written Communication (GE A2)	Fall & Spring		3	
Semester Total			15	Semester Total			15	

Year 2: Sophomore Year				Year Total				32
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
BIOL 2010 (GE B2)	Fall	CHEM 2100	5	BIOL 2020	Spring	BIOL 2010	5	
CHEM 3400	Fall	CHEM 2200 and CHEM 2200L	5	CHEM 3500	Spring	CHEM 3400	5	
MATH 2310	Fall & Spring	MATH 2210 and MATH 2220	4	PHYS 2500	Fall & Spring	MATH 2210; MATH 2220 (Corequisite)	4	
General Education	Fall & Spring		3	PHYS 2500L	Fall & Spring	PHYS 2500 (Corequisite)	1	
Semester Total			17	Semester Total			15	

Year 3: Junior Year				Year Total				33
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
CHEM 4100	Fall & Spring	CHEM 2300, 2500, or 3400; and BIOL 2010	3	CHEM 3200	Fall & Spring	CHEM 2100/L and CHEM 2200/L	4	
CHEM 4100L	Fall & Spring	CHEM 4100 (Corequisite)	1	CHEM 4200	Spring	CHEM 4100	3	
CHEM 4350	Fall	CHEM 3200 and CHEM 3500	3	CHEM 4200L	Fall & Spring	CHEM 4200 (Corequisite)	1	
PHYS 2510	Fall & Spring	PHYS 2500	4	Concentration BIOL Elective	Fall & Spring	Varies	4	
PHYS 2510L	Fall & Spring	PHYS 2510 (Corequisite)	1	General Education	Fall & Spring		3	
General Education	Fall & Spring		3	General Education	Fall & Spring		3	
Semester Total			15	Semester Total			18	

Year 4: Senior Year				Year Total				25
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
CHEM 4600	Fall	CHEM 3200, 4100/L; MATH 2220; PHYS 2510/	3	CHEM 4700	Spring	CHEM 4600	3	
CHEM 5700	Fall	CHEM 4200L	2	General Education (UD)	Fall & Spring		3	
CHEM 5800	Fall & Spring	CHEM 3200 and CHEM 3500	1	Free Elective	Fall & Spring		3	
CHEM 4750	Fall	CHEM 4600 (Corequisite)	1	Free Elective	Fall & Spring		3	
CHEM 5990	Fall & Spring	Senior Standing	0					
General Education	Fall & Spring		3					
General Education (UD)	Fall & Spring		3					
Semester Total			13	Semester Total			12	
Degree Units Total							120	

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The roadmap is an academic planning resource. Students should refer to their PAWS Report and Academic Catalog for graduation requirements.

The following courses fulfill the Upper Division Scientific Inquiry GE B5 requirement: CHEM 3200, CHEM 4750, and CHEM 5700.

Bachelor of Science - Chemistry - Biochemistry Concentration
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Year 1: Freshman Year				Year Total			
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
MATH 1402 (GE B4)	Fall & Spring		3	CHEM 2100 (GE B1)	Fall & Spring	College Math (Corequisite)	4
MATH 1402L	Fall & Spring	MATH 1402 (Corequisite)	1	CHEM 2100L (GE B3)	Fall & Spring	CHEM 2100 (Corequisite)	1
Foundation Seminar (GE E)	Fall & Spring		3	MATH 1403	Fall & Spring	MATH 1402	4
Oral Communication (GE A1)	Fall & Spring		3	Critical Thinking (GE A3)	Fall & Spring		3
Written Communication (GE A2)	Fall & Spring		3				
Semester Total			13	Semester Total			12

Year 2: Freshman/Sophomore Year				Year Total			
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
MATH 2210	Fall & Spring	MATH 1401 or 1403	4	MATH 2220	Fall & Spring	MATH 2210	4
CHEM 2200	Fall & Spring	CHEM 2100	4	CHEM 3200	Fall & Spring	CHEM 2100 and CHEM 2200	4
CHEM 2200L	Fall & Spring	CHEM 2200 (Corequisite)	1	General Education	Fall & Spring		3
General Education	Fall & Spring		3	General Education			3
Semester Total			12	Semester Total			14

Year 3: Sophomore/Junior Year				Year Total			
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
BIOL 2010 (GE B2)	Fall	CHEM 2100	5	BIOL 2020	Spring	BIOL 2010	5
CHEM 3400	Fall	CHEM 2200 and CHEM 2200L	5	CHEM 3500	Spring	CHEM 3400	5
General Education	Fall & Spring		3	General Education	Fall & Spring		3
Semester Total			13	Semester Total			13

Year 4: Junior/Senior Year				Year Total			
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
CHEM 4100	Fall & Spring	CHEM 2300, 2500, or 3400; and BIOL 2010	3	CHEM 4200	Spring	CHEM 4100	3
CHEM 4100L	Fall & Spring	CHEM 4100 (Corequisite)	1	CHEM 4200L	Spring	CHEM 4200 (Corequisite)	1
PHYS 2500	Fall & Spring	MATH 2210; MATH 2220 (Corequisite)	4	CHEM 5800	Fall & Spring	CHEM 3200 and CHEM 3500	1
PHYS 2500L	Fall & Spring	PHYS 2500 (Corequisite)	1	PHYS 2510	Fall & Spring	PHYS 2500	4
General Education	Fall & Spring		3	PHYS 2510L	Fall & Spring	PHYS 2510 (Corequisite)	1
Semester Total			12	Semester Total			10

Year 5: Senior Year				Year Total			
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
CHEM 4350	Fall	CHEM 3200 and CHEM 3500	3	CHEM 4700	Spring	CHEM 4600	3
CHEM 4600	Fall	CHEM 3200, 4100/L; MATH 2220; PHYS 2010/	3	Concentration BIOL Elective	Fall & Spring	Varies	4
CHEM 4750	Fall	CHEM 4600 (Corequisite)	1	General Education (UD)	Fall & Spring		3
CHEM 5700	Fall	CHEM 4200L	2	General Education (UD)	Fall & Spring		3
CHEM 5990	Fall & Spring	Senior Chemistry major	0				
MATH 2310	Fall & Spring	MATH 2210 and MATH 2220	4				
Semester Total			13	Semester Total			13
Degree Units Total							125

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