

**Bachelor of Arts - 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	
<b>Semester Total</b>			<b>15</b>	<b>Semester Total</b>			<b>15</b>	

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	
General Education	Fall & Spring		3	General Education	Fall & Spring		3	
General Education	Fall & Spring		3	General Education	Fall & Spring		3	
<b>Semester Total</b>			<b>16</b>	<b>Semester Total</b>			<b>16</b>	

Year 3: Junior Year				Year Total				31
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
CHEM 3200	Fall & Spring	CHEM 2100 and CHEM 2200	4	CHEM 4200	Spring	CHEM 4100	3	
CHEM 4100	Fall & Spring	CHEM 2300, 2500, or 3400; and BIOL 2010	3	CHEM 4200L	Spring	CHEM 4200 (Corequisite)	1	
CHEM 4100L	Fall & Spring	CHEM 4100 (Corequisite)	1	PHYS 2010	Fall & Spring	PHYS 2000	4	
PHYS 2000	Fall & Spring	MATH 2210	4	PHYS 2010L	Fall & Spring	PHYS 2010 (Corequisite)	1	
PHYS 2000L	Fall & Spring	PHYS 2000 (Corequisite)	1	General Education	Fall & Spring		3	
General Education	Fall & Spring		3	General Education (UD)	Fall & Spring		3	
<b>Semester Total</b>			<b>16</b>	<b>Semester Total</b>			<b>15</b>	

Year 4: Senior Year				Year Total				27
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
CHEM 4600	Fall	CHEM 3200, 4100/L; MATH 2220; PHYS 2010/	3	CHEM 4700	Spring	CHEM 4600	3	
CHEM 4350	Fall	CHEM 3200 and CHEM 3500	3	CHEM Elective	Fall & Spring	Varies	2	
CHEM 4750	Fall	CHEM 4600 (Corequisite)	1	Free Elective	Fall & Spring		3	
CHEM 5800	Fall & Spring	CHEM 3200 and CHEM 3500	1	Free Elective	Fall & Spring		3	
General Education (UD)	Fall & Spring		3	Free Elective	Fall & Spring		2	
General Education (UD)	Fall & Spring		3					
<b>Semester Total</b>			<b>14</b>	<b>Semester Total</b>			<b>13</b>	
<b>Degree Units Total</b>							<b>120</b>	

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Last modified 2023-08-01

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

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First Time Freshman Academic Roadmap**

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				
<b>Semester Total</b>			<b>13</b>	<b>Semester Total</b>			<b>12</b>

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
<b>Semester Total</b>			<b>12</b>	<b>Semester Total</b>			<b>14</b>

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
<b>Semester Total</b>			<b>13</b>	<b>Semester Total</b>			<b>13</b>

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 2000	Fall & Spring	MATH 2210	4	PHYS 2010	Fall & Spring	PHYS 2000	4
PHYS 2000L	Fall & Spring	PHYS 2000 (Corequisite)	1	PHYS 2010L	Fall & Spring	PHYS 2010 (Corequisite)	1
General Education	Fall & Spring		3	General Education (UD)	Fall & Spring		3
<b>Semester Total</b>			<b>12</b>	<b>Semester Total</b>			<b>12</b>

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	CHEM Elective	Fall & Spring	Varies	2
CHEM 4750	Fall	CHEM 4600 (Corequisite)	1	General Education (UD)	Fall & Spring		3
CHEM 5800	Fall	CHEM 3200 and CHEM 3500	1	General Education (UD)	Fall & Spring		3
CHEM 5990	Fall & Spring	Senior and majoring in BS Chemistry	0				
<b>Semester Total</b>			<b>8</b>	<b>Semester Total</b>			<b>11</b>
<b>Degree Units Total</b>							<b>120</b>