

**Bachelor of Science - Chemistry - Chemistry 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	CHEM 3200	Fall & Spring	CHEM 2100/L and CHEM 2200/L	4	
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	MATH 2270 or 2320	Fall & Spring	Varies	3	
General Education	Fall & Spring		3	General Education	Fall & Spring		3	
<b>Semester Total</b>			<b>17</b>	<b>Semester Total</b>			<b>15</b>	

Year 3: Junior Year				Year Total				30
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 Elective	Fall & Spring	Varies	2	
CHEM 4100L	Fall & Spring	CHEM 4100 (Corequisite)	1	PHYS 2510	Fall & Spring	PHYS 2500	4	
CHEM Elective	Fall & Spring	Varies	2	PHYS 2510L	Fall & Spring	PHYS 2510 (Corequisite)	1	
PHYS 2500	Fall & Spring	MATH 2210; MATH 2220 (Corequisite)	4	General Education	Fall & Spring		3	
PHYS 2500L	Fall & Spring	PHYS 2500 (Corequisite)	1	General Education	Fall & Spring		3	
General Education	Fall & Spring		3	General Education	Fall & Spring		3	
<b>Semester Total</b>			<b>14</b>	<b>Semester Total</b>			<b>16</b>	

Year 4: Senior Year				Year Total				28
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units	
CHEM 4300	Fall	CHEM 3200 and CHEM 3500	4	CHEM 4500	Spring	CHEM 4400	3	
CHEM 4400	Fall	CHEM 3200; MATH 2220; PHYS 2510/L	3	CHEM 4550	Spring	CHEM 4500 (Corequisite)	1	
CHEM 5800	Fall	CHEM 3200 and CHEM 3500	1	CHEM 5200	Spring	CHEM 3200 and 3500; PHYS 2510 and 2510L	5	
CHEM 5990	Fall & Spring	Senior Standing	0	CHEM 5850 or 5860	Spring	CHEM 5800	1	
General Education (UD)	Fall & Spring		3	Free Elective	Fall & Spring		3	
General Education (UD)	Fall & Spring		3	Free Elective	Fall & Spring		1	
<b>Semester Total</b>			<b>14</b>	<b>Semester Total</b>			<b>14</b>	
<b>Degree Units Total</b>							<b>120</b>	

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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 4550, and either CHEM 5850 or CHEM 5860.

**Bachelor of Science - Chemistry - Chemistry Concentration**  
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Year 1: Freshman Year				Year Total			25
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			24
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	PHYS 2500	Fall & Spring	MATH 2210; MATH 2220 (Corequisite)	4
CHEM 2200L	Fall & Spring	CHEM 2200 (Corequisite)	1	PHYS 2500L	Fall & Spring	PHYS 2500 (Corequisite)	1
General Education	Fall & Spring		3	General Education	Fall & Spring		3
<b>Semester Total</b>			<b>12</b>	<b>Semester Total</b>			<b>12</b>

Year 3: Sophomore/Junior Year				Year Total			26
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
CHEM 3400	Fall	CHEM 2200 and CHEM 2200L	5	CHEM 3200	Fall & Spring	CHEM 2100/L and CHEM 2200/L	4
MATH 2310	Fall & Spring	MATH 2210 and MATH 2220	4	CHEM 3500	Spring	CHEM 3400	5
PHYS 2510	Fall & Spring	PHYS 2500	4	MATH 2270 or 2320	Fall & Spring	Varies	3
PHYS 2510L	Fall & Spring	PHYS 2510 (Corequisite)	1				
<b>Semester Total</b>			<b>14</b>	<b>Semester Total</b>			<b>12</b>

Year 4: Junior/Senior Year				Year Total			24
Fall Semester	Terms Offered	Prerequisite Courses	Units	Spring Semester	Terms Offered	Prerequisite Courses	Units
BIOL 2010 (GE B2)	Fall	CHEM 2100	5	CHEM 4500	Spring	CHEM 4400	3
CHEM 4300	Fall	CHEM 3200 and CHEM 3500	4	CHEM 4550	Spring	CHEM 4500 (Corequisite)	1
CHEM 4400	Fall	CHEM 3200; MATH 2220; PHYS 2510/L	3	CHEM Elective	Fall & Spring	Varies	2
				General Education	Fall & Spring		3
				General Education	Fall & Spring		3
<b>Semester Total</b>			<b>12</b>	<b>Semester Total</b>			<b>12</b>

Year 5: Senior Year				Year Total			25
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 5200	Spring	CHEM 3200 and 3500; PHYS 2510 and 2510L	5
CHEM 4100L	Fall & Spring	CHEM 4100 (Corequisite)	1	CHEM 5850 or 5860	Spring	CHEM 5800	1
CHEM 5800	Fall	CHEM 3200 and CHEM 3500	1	General Education (UD)	Fall & Spring		3
CHEM 5990	Fall & Spring	Senior Standing	0	General Education (UD)	Fall & Spring		3
CHEM Elective	Fall & Spring	Varies	2				
General Education	Fall & Spring		3				
General Education	Fall & Spring		3				
<b>Semester Total</b>			<b>13</b>	<b>Semester Total</b>			<b>12</b>
						<b>Degree Units Total</b>	<b>124</b>

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