

**Degree: Chem-BA CHEM: Biochemistry Concentration  
Freshman 4-Year Academic Roadmap**

Year 1: Freshman Year					Year Total		30		
Fall	Term(s)	Pre-req	Pre-req Courses	Units	Spring	Term(s)	Pre-req	Pre-req Courses	Units
Math 2210	Fall & Spring	TRUE	Math 1401	4	Math 2200	Fall & Spring	TRUE	Math 2210	4
Chem 2100+2100L	Fall & Spring	TRUE	College math coreq	5	Chem 2200+2200L	Fall & Spring	TRUE	Chem 2100+2100L	5
GE		FALSE		3	GE		FALSE		3
GE		FALSE		3	GE		FALSE		3
<b>Semester Total</b>				<b>15</b>	<b>Semester Total</b>				<b>15</b>

Year 2: Sophomore Year					Year Total		32		
Fall	Term(s)	Pre-req	Pre-req Courses	Units	Spring	Term(s)	Pre-req	Pre-req Courses	Units
Chem 3400	Fall	TRUE	Chem 2200+2200L	5	Bio 2020	Spring	TRUE	Bio 2010	5
Biol 2010	Fall	TRUE	Chem 2100	5	Chem 3500	Spring	TRUE	Chem 3400	5
GE		FALSE		3	GE		FALSE		3
GE		FALSE		3	GE		FALSE		3
<b>Semester Total</b>				<b>16</b>	<b>Semester Total</b>				<b>16</b>

Year 3: Junior Year					Year Total		31		
Fall	Term(s)	Pre-req	Pre-req Courses	Units	Spring	Term(s)	Pre-req	Pre-req Courses	Units
Chem 4100+4100L	Fall & Spring	TRUE	Chem 3400&BIOL 2010	4	Chem 4200+4200L	Spring	TRUE	Chem 4100+4100L	4
Phys 2200 + 2000L	Fall & Spring	TRUE	Math 2210	5	Phys 2010+2010L	Fall & Spring	TRUE	Phys 2000+2000L	5
CHEM 3200	Fall & Spring	TRUE	CHEM2200+2200L	4	GE		FALSE		3
GE		FALSE		3	GE		FALSE		3
<b>Semester Total</b>				<b>16</b>	<b>Semester Total</b>				<b>15</b>

Year 4: Senior Year					Year Total		28		
Fall	Term(s)	Pre-req	Pre-req Courses	Units	Spring	Term(s)	Pre-req	Pre-req Courses	Units
Chem 4600	Fall	TRUE	Chem 3200, 4100+L, Math 2220; Phys 2010+L or 2510+L	3	CHEM 4700	Spring	TRUE	Chem 4600	3
Chem elective		TRUE	variable	2	CHEM 4750	Spring	TRUE	Chem 4700 (coreq)	1
Chem 5800	Fall & Spring	TRUE	Chem 2500 or 3500; & 3200 & 90+ units	1	CHEM 4350	Spring	TRUE	Chem 2500 or 3500; Chem 3200	3
GE x 2		FALSE		6	Free elective		FALSE		3
Free elective		FALSE		3	Free elective		FALSE		3
<b>Semester Total</b>				<b>15</b>	<b>Semester Total</b>				<b>13</b>
<b>Degree Units Total</b>								<b>121</b>	