

Degree: Chem-BA CHEM: Chemistry Concentration
Transfer ADT 2-Year Academic Roadmap



Year 3: Junior Year				
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units
CHEM 3200	Fall & Spring	<input checked="" type="checkbox"/>	general chem II w/lab	4
Math 2310	Fall & Spring	<input checked="" type="checkbox"/>	on year calculus	4
Chem elective		<input checked="" type="checkbox"/>	variable	3
GE		<input type="checkbox"/>		3
		<input type="checkbox"/>		
Semester Total				14

Year 3: Junior Year				
Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem elective	Fall & Spring	<input checked="" type="checkbox"/>	variable	3
Chem 3600	Spring	<input checked="" type="checkbox"/>	one year ochem	5
Biol 1000+1000L	Fall & Spring	<input type="checkbox"/>		5
GE		<input type="checkbox"/>		3
		<input type="checkbox"/>		
Semester Total				16

Year 4: Senior Year				
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4400	Fall	<input checked="" type="checkbox"/>	Chem 3200, Math 2220; Phys 2010+L or 2510+L	3
Chem 4300	Fall	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200	4
Chem 5800	Fall	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200 & 90+ units	1
GE		<input type="checkbox"/>		3
Free elective		<input type="checkbox"/>		3
Semester Total				14

Year 4: Senior Year				
Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4500	Spring	<input checked="" type="checkbox"/>	Chem 4400	3
Chem 4550	Spring	<input checked="" type="checkbox"/>	Chem 4500 (corequ)	1
Chem Elective	Fall & Spring	<input checked="" type="checkbox"/>	variable	3
Free Elective		<input checked="" type="checkbox"/>		3
2 x free electives		<input type="checkbox"/>		6
Semester Total				16

*Course may be offered in summer

Degree Units Total				60
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General Education Courses

GE Category	Courses	Designation
A1	Oral Communication	University Foundations
A2	Written Communication	University Foundations
A3	Critical Thinking	University Foundations
B1	Physical Science	Disciplinary Perspectives
B2	Life Science	Disciplinary Perspectives
B3	Lab Activity	Disciplinary Perspectives
B4	Mathematics	University Foundations
B5	Upper Division Scientific Inquiry	Disciplinary Perspectives
C1*	Arts	Disciplinary Perspectives
C2*	Literature	Disciplinary Perspectives
C2*	Philosophy	Disciplinary Perspectives
C2*	World Languages or Literature in Translation	Disciplinary Perspectives
*one choice must be upper-division		
D1^	U.S. History	University Foundations
D2^	American Government	University Foundations
D3^	Social Sciences Discipline Perspectives	Disciplinary Perspectives
D4^	Upper Division Social Science	Disciplinary Perspectives
^at least 2 disciplines must be represented in D, including choices in US History & Government		
E	Foundation Seminar	University Foundations

(WI) Writing Intensive **At least 2 courses reqd, one UD**

Diversity and Inclusiveness

(DI) Perspectives **At least 1 course required**

(G) Global Perspectives **At least 1 course required**

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

Year 1: Freshman Year					Year Total				
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Math 2210	Fall & Spring	<input checked="" type="checkbox"/>	Math 1401	4	Math 2200	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	4
Chem 2100+2100L	Fall & Spring	<input checked="" type="checkbox"/>	College math coreq	5	Chem 2200+2200L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 2100+2100L	5
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				15	Semester Total				15

Year 2: Sophomore Year					Year Total				
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 3400	Fall	<input checked="" type="checkbox"/>	Chem 2200+2200L	5	Bio 2020	Spring	<input checked="" type="checkbox"/>	Bio 2010	5
Biol 2010	Fall	<input checked="" type="checkbox"/>	Chem 2100	5	Chem 3500	Spring	<input checked="" type="checkbox"/>	Chem 3400	5
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				16	Semester Total				16

Year 3: Junior Year					Year Total				
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4100+4100L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 3400&BIOL 2010	4	Chem 4200+4200L	Spring	<input checked="" type="checkbox"/>	Chem 4100+4100L	4
Phys 22000 + 2000L	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	5	Phys 2010+2010L	Fall & Spring	<input checked="" type="checkbox"/>	Phys 2000+2000L	5
CHEM 3200	Fall & Spring	<input checked="" type="checkbox"/>	CHEM2200+2200L	4	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				16	Semester Total				15

Year 4: Senior Year					Year Total				
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4600	Fall	<input checked="" type="checkbox"/>	Chem 3200, 4100+L, Math 2220; Phys 2010+L or 2510+L	3	CHEM 4700	Spring	<input checked="" type="checkbox"/>	Chem 4600	3
Chem elective		<input checked="" type="checkbox"/>	variable	2	CHEM 4750	Spring	<input checked="" type="checkbox"/>	Chem 4700 (corequ)	1
Chem 5800	Fall & Spring	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200 & 90+ units	1	CHEM 4350	Spring	<input checked="" type="checkbox"/>	Chem 2500 or 3500; Chem 3200	3
GE x 2		<input type="checkbox"/>		6	Free elective		<input type="checkbox"/>		3
Free elective		<input type="checkbox"/>		3	Free elective		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				15	Semester Total				13

*Course may be offered in summer

Degree Units Total **121**

General Education Courses

GE Category	Courses	Designation
A1	Oral Communication	University Foundations
A2	Written Communication	University Foundations
A3	Critical Thinking	University Foundations
B1	Physical Science	Disciplinary Perspectives
B2	Life Science	Disciplinary Perspectives
B3	Lab Activity	Disciplinary Perspectives
B4	Mathematics	University Foundations
B5	Upper Division Scientific Inquiry	Disciplinary Perspectives
C1*	Arts	Disciplinary Perspectives
C2*	Literature	Disciplinary Perspectives
C2*	Philosophy	Disciplinary Perspectives
C2*	World Languages or Literature in Translation	Disciplinary Perspectives
*one choice must be upper-division		
D1^	U.S. History	University Foundations
D2^	American Government	University Foundations
D3^	Social Sciences Discipline Perspectives	Disciplinary Perspectives
D4^	Upper Division Social Science	Disciplinary Perspectives
^at least 2 disciplines must be represented in D, including choices in US History & Government		
E	Foundation Seminar	University Foundations

(WI) Writing Intensive **At least 2 courses reqd, one UD**

Diversity and Inclusiveness

(DI) Perspectives **At least 1 course required**

(G) Global Perspectives **At least 1 course required**

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

Year 1: Freshman Year					Year Total	30			
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Math 2210	Fall & Spring	<input checked="" type="checkbox"/>	Math 1401	4	Math 2200	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	4
Chem 2100+2100L	Fall & Spring	<input checked="" type="checkbox"/>	College math coreq	5	Chem 2200+2200L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 2100+ 2100L	5
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				15	Semester Total				15

Year 2: Sophomore Year					Year Total	31			
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Math 2310	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210 pre/corq	4	Bio 1000+1000L	Fall & Spring	<input type="checkbox"/>		5
Chem 3400	Fall	<input checked="" type="checkbox"/>	Chem 2200+2200L	5	Chem 3500	Spring	<input checked="" type="checkbox"/>	Chem 3400	5
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				15	Semester Total				16

Year 3: Junior Year					Year Total	29			
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
CHEM 3200	Fall & Spring	<input checked="" type="checkbox"/>	CHEM2200+2200L	4	Chem elective	Fall & Spring	<input checked="" type="checkbox"/>	variable	3
Phys 22000 + 2000L	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	5	Phys 2010+2010L	Fall & Spring	<input checked="" type="checkbox"/>	Phys 2000+2000L	5
Chem elective		<input checked="" type="checkbox"/>	variable	3			<input type="checkbox"/>		
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>			GE		<input type="checkbox"/>		3
Semester Total				15	Semester Total				14

Year 4: Senior Year					Year Total	30			
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4400	Fall	<input checked="" type="checkbox"/>	Chem 3200, Math 2220; Phys 2010+L or 2510+L	3	Chem 4500	Spring	<input checked="" type="checkbox"/>	Chem 4400	3
Chem 4300	Fall	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200	4	Chem 4550	Spring	<input checked="" type="checkbox"/>	Chem 4500 (corequ)	1
Chem 5800	Fall	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200 & 90+ units	1	Chem Elective	Fall & Spring	<input checked="" type="checkbox"/>	variable	3
GE		<input type="checkbox"/>		3	Free Elective		<input checked="" type="checkbox"/>		3
Free elective		<input type="checkbox"/>		3	2 x free electives		<input type="checkbox"/>		6
Semester Total				14	Semester Total				16

*Course may be offered in summer

Degree Units Total **120**

General Education Courses

GE Category	Courses	Designation
A1	Oral Communication	University Foundations
A2	Written Communication	University Foundations
A3	Critical Thinking	University Foundations
B1	Physical Science	Disciplinary Perspectives
B2	Life Science	Disciplinary Perspectives
B3	Lab Activity	Disciplinary Perspectives
B4	Mathematics	University Foundations
B5	Upper Division Scientific Inquiry	Disciplinary Perspectives
C1*	Arts	Disciplinary Perspectives
C2*	Literature	Disciplinary Perspectives
C2*	Philosophy	Disciplinary Perspectives
C2*	World Languages or Literature in Translation	Disciplinary Perspectives
*one choice must be upper-division		
D1^	U.S. History	University Foundations
D2^	American Government	University Foundations
D3^	Social Sciences Discipline Perspectives	Disciplinary Perspectives
D4^	Upper Division Social Science	Disciplinary Perspectives
^at least 2 disciplines must be represented in D, including choices in US History & Government		
E	Foundation Seminar	University Foundations

(WI) Writing Intensive **At least 2 courses reqd, one UD**

Diversity and Inclusiveness

(DI) Perspectives **At least 1 course required**

(G) Global Perspectives **At least 1 course required**

Degree: Chem-BS ACS Certified: Biochemistry Concentration
Freshman 4-Year Academic Roadmap

DO NOT EDIT

Year 1: Freshman Year					Year Total					30	
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units		
Math 2210	Fall & Spring	<input checked="" type="checkbox"/>	Math 1401	4	Math 2200	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	4		
Chem 2100+2100L	Fall & Spring	<input checked="" type="checkbox"/>	College math coreq	5	Chem 2200+2200L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 2100+2100L	5		
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3		
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3		
		<input type="checkbox"/>					<input type="checkbox"/>				
Semester Total				15	Semester Total				15		

Year 2: Sophomore Year					Year Total					35	
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units		
Math 2310	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210 pre/corq	4	Phys 2500+2500L	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	5		
Biol 2010	Fall	<input checked="" type="checkbox"/>	Chem 2100	5	Chem 3500	Spring	<input checked="" type="checkbox"/>	Chem 3400	5		
Chem 3400	Fall	<input checked="" type="checkbox"/>	Chem 2200+2200L	5	Bio 2020	Spring	<input checked="" type="checkbox"/>	Bio 2010	5		
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3		
		<input type="checkbox"/>					<input type="checkbox"/>				
Semester Total				17	Semester Total				18		

Year 3: Junior Year					Year Total					32	
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units		
Chem 4100+4100L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 3400&BIOL 2010	4	Chem 4200+4200L	Spring	<input checked="" type="checkbox"/>	Chem 4100+4100L	4		
Phys 2510+2510L	Fall & Spring	<input checked="" type="checkbox"/>	Phys 2500+2500L	5	Bio elective	Fall & Spring	<input checked="" type="checkbox"/>	Biol 2020	4		
GE		<input type="checkbox"/>		3	CHEM 3200	Fall & Spring	<input checked="" type="checkbox"/>	CHEM2200+2200L	3		
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3		
		<input type="checkbox"/>			GE		<input type="checkbox"/>		3		
Semester Total				15	Semester Total				17		

Year 4: Senior Year					Year Total					25	
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units		
Chem 4600	Fall	<input checked="" type="checkbox"/>	Chem 3200, 4100+L, Math 2220; Phys 2010+L or 2510+L	3	CHEM 4700	Spring	<input checked="" type="checkbox"/>	Chem 4600	3		
Chem 5700	Fall	<input checked="" type="checkbox"/>	Chem 4200+4200L	2	CHEM 4750	Spring	<input checked="" type="checkbox"/>	Chem 4700 (corequ)	1		
Chem 5800	Fall & Spring	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200 & 90+ units	1	CHEM 4350	Spring	<input checked="" type="checkbox"/>	Chem 2500 or 3500; Chem 3200	3		
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3		
GE		<input type="checkbox"/>		3	free elective		<input type="checkbox"/>		3		
Semester Total				12	Semester Total				13		
*Course may be offered in summer									Degree Units Total		122

General Education Courses

GE Category	Courses	Designation
A1	Oral Communication	University Foundations
A2	Written Communication	University Foundations
A3	Critical Thinking	University Foundations
B1	Physical Science	Disciplinary Perspectives
B2	Life Science	Disciplinary Perspectives
B3	Lab Activity	Disciplinary Perspectives
B4	Mathematics	University Foundations
B5	Upper Division Scientific Inquiry	Disciplinary Perspectives
C1*	Arts	Disciplinary Perspectives
C2*	Literature	Disciplinary Perspectives
C2*	Philosophy	Disciplinary Perspectives
C2*	World Languages or Literature in Translation	Disciplinary Perspectives
*one choice must be upper-division		
D1^	U.S. History	University Foundations
D2^	American Government	University Foundations
D3^	Social Sciences Discipline Perspectives	Disciplinary Perspectives
D4^	Upper Division Social Science	Disciplinary Perspectives
^at least 2 disciplines must be represented in D, including choices in US History & Government		
E	Foundation Seminar	University Foundations

(WI) Writing Intensive **At least 2 courses reqd, one UD**

Diversity and Inclusiveness

(DI) Perspectives **At least 1 course required**

(G) Global Perspectives **At least 1 course required**

**Degree: Chem-BS ACS Certified: Chemistry Concentration
Freshman 4-Year Academic Roadmap**

Year 1: Freshman Year					Year Total				30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Math 2210	Fall & Spring	<input checked="" type="checkbox"/>	Math 1401	4	Math 2200	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	4
Chem 2100+2100L	Fall & Spring	<input checked="" type="checkbox"/>	College math coreq	5	Chem 2200+2200L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 2100+2100L	5
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				15	Semester Total				15
Year 2: Sophomore Year					Year Total				33
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Math 2310	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210 pre/corq	4	Math elective	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	4
Biol 2010	Fall	<input checked="" type="checkbox"/>	Chem 2100	5	Chem 3500	Spring	<input checked="" type="checkbox"/>	Chem 3400	5
Chem 3400	Fall	<input checked="" type="checkbox"/>	Chem 2200+2200L	5	CHEM 3200	Fall & Spring	<input checked="" type="checkbox"/>	CHEM2200+2200L	4
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>					<input type="checkbox"/>		
Semester Total				17	Semester Total				16
Year 3: Junior Year					Year Total				30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4100+4100L	Fall & Spring	<input checked="" type="checkbox"/>	Chem 3400&BIOL 2010	4	Chem elective or mate	Fall & Spring	<input checked="" type="checkbox"/>	variable	2
Phys 2500+2500L	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210	5	Phys 2510+2510L	Fall & Spring	<input checked="" type="checkbox"/>	Phys 2500+2500L	5
Chem elective or mate	Fall & Spring	<input checked="" type="checkbox"/>	variable	2	GE		<input type="checkbox"/>		3
GE		<input type="checkbox"/>		3	GE		<input type="checkbox"/>		3
		<input type="checkbox"/>			GE		<input type="checkbox"/>		3
Semester Total				14	Semester Total				16
Year 4: Senior Year					Year Total				30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
Chem 4400	Fall	<input checked="" type="checkbox"/>	Chem 3200, Math 2220; Phys 2010+L or 2510+L	3	Chem 4500	Spring	<input checked="" type="checkbox"/>	Chem 4400	3
Chem 4300	Fall	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200	4	Chem 4550	Spring	<input checked="" type="checkbox"/>	Chem 4500 (corequ)	1
Chem 5800	Fall	<input checked="" type="checkbox"/>	Chem 2500 or 3500; & 3200 & 90+ units	1	Chem 5850or5860	Spring	<input checked="" type="checkbox"/>	Chem 5800	1
GE		<input type="checkbox"/>		3	Chem 5200	Spring	<input checked="" type="checkbox"/>	Chem 2500 or 3500; Chem 3200; Physics 2010+L or 2110+L	5
GE		<input type="checkbox"/>		3	GE+elective (2 courses)		<input type="checkbox"/>		6
Semester Total				14	Semester Total				16
*Course may be offered in summer					Degree Units Total				123

General Education Courses

GE Category	Courses	Designation
A1	Oral Communication	University Foundations
A2	Written Communication	University Foundations
A3	Critical Thinking	University Foundations
B1	Physical Science	Disciplinary Perspectives
B2	Life Science	Disciplinary Perspectives
B3	Lab Activity	Disciplinary Perspectives
B4	Mathematics	University Foundations
B5	Upper Division Scientific Inquiry	Disciplinary Perspectives
C1*	Arts	Disciplinary Perspectives
C2*	Literature	Disciplinary Perspectives
C2*	Philosophy	Disciplinary Perspectives
C2*	World Languages or Literature in Translation	Disciplinary Perspectives
*one choice must be upper-division		
D1^	U.S. History	University Foundations
D2^	American Government	University Foundations
D3^	Social Sciences Discipline Perspectives	Disciplinary Perspectives
D4^	Upper Division Social Science	Disciplinary Perspectives
^at least 2 disciplines must be represented in D, including choices in US History & Government		
E	Foundation Seminar	University Foundations

(WI) Writing Intensive **At least 2 courses reqd, one UD**

Diversity and Inclusiveness

(DI) Perspectives **At least 1 course required**

(G) Global Perspectives **At least 1 course required**