

## Department of Chemistry and Biochemistry

<b>BS Biochemistry 4 year plan</b>										
	<b>Fall</b>	<b>Qtrs</b>	<b>Units</b>	<b>Winter</b>	<b>Qtrs</b>	<b>Units</b>	<b>Spring</b>	<b>Qtrs</b>	<b>Units</b>	<b>Year Total</b>
<b>Year 1</b>	Chem 215 (GE-B3)	F/W	6	Chem 216	W/S	6	Chem 345	F/S	5	
	GE-A1 (Eng 102/105/107)	FWS	4	GE (A2,A4,C1-C4,D1-D4)or Eng 103/106	FWS	4	Math 211 (or next math course in major)	FWS	4	
	GE-B1 (math 110, 120, 211)	FWS	4	Math 120 (or next math course)	FWS	4	GE(A2,A4,C1-C4,D1-D4) or Eng 104	FWS	4	
				GE-(B4,E1,E2,E3)	FWS	2	GE-(B4,E1,E2,E3)	FWS	2	
	Total quarter units		14			16			15	45
<b>Year 2</b>	Chem 321	F	5	Chem 322	W	5	Chem 323	S	5	
	Biol 200	F	5	Biol 201	W	5	Biol 202	S	5	
	Math 212	FWS	4	Math 213	FWS	4	GE (A2,A4,C1-C4,D1-D4)	FWS	4	
	GE-(B4,E1,E2,E3)	FWS	2	GE-(B4,E1,E2,E3)	FWS	2	GE (same catagories)	FWS	4	
	Total quarter units		16			16			18	50
<b>Year 3</b>	Chem 436a/b	F/W	5	Chem 437a/b	W	4	Chem 438a/b	S	4	
	Phys 121	F	5	Phys 122	W	5	Phys 123	S	5	
	Biol 300	FW	5	E-F NSCI Eng 306	FWS	4	GE GE-(B4,E1,E2,E3)	FWS	4	
				GE-(B4,E1,E2,E3)	FWS	4	GE (same catagories)	FWS	4	
	Total quarter units		15			17			17	49
<b>Year 4</b>	Chem 470	F	3	Chem 451	W	5	Chem 590B	FWS	1	
	Chem 590A	FWS	1	Upper div bio elec	FWS	4-6	Chem 452	S	5	
	Chem 599	FWS	0	GE-(B4,E1,E2,E3)	FWS	4	GE (B5,C5,D5)	FWS	4	
	GE (B5,C5,D5)	FWS	4	GE-(B4,E1,E2,E3)	FWS	4	GE (B5,C5,D5)	FWS	4	
	GE (B5,C5,D5)	FWS	4							
	Total quarter units		12			17+			14	43+
<b>Total Units</b>										<b>187*+</b>

\*Fewer units needed if students start at math 120 or 211, and/or take less than three quarters to finish composition Last updated: Oct, 2017

**GE Courses**

Category		Units	Courses
Written Communication	A1	4	Eng 107, or Eng 105A and 106A, or Eng 105B and 106B, or Eng 102A and 103A and 104A, or Eng 102B and 103B and 104B
Oral Communication	A2	4	Comm 120; Hon 104C
Quantitative Reasoning	A3		See Category B1
Critical Thinking	A4	4	Comm 180; Hon 104A; Math 180; Phil 105, or 200; Psyc 105; Soc 180
Mathematics	B1	4	Math 110, 115, 120, 192, or 211, (Nursing students only can use Math 165)
Life Sciences	B2	5	Biol 100, or 202; Hsci 120
Physical Sciences	B3	5	Astr 103; Chem 100, 205, or 215; Geog 103; Geol 101; Phys 100, 121, or 221
Special Topics in Science and Technology	B4	2	Biol 216, or 217; Chem 105; Cse 122, or 129
Integrative Capstone in Natural Sciences	B5	4	Cse 408; Nsci 300, 310, 314, 315, 320, 325*, 351, or 360
Arts	C1	4	Art 200; Hum 180; Mus 180; TA 260
Literature	C2	4	Eng 110, 111, 160, or 170; TA 160, or 212
Foreign Language or Literature in Translation	C3	4	Arab 103, 201, 202, 203, 214, or 290; Asl 103, 201, 202, or 203; Chin 201, 202, 203, 214, or 290; Flan 103A-U, 201A-U, 202A-U, or 203A-U; Fren 103, 200, 201, 202, or 290; Ger 103, 212, 214, 216, or 290; Japn 103,201,202, 203, 214, or 290; Kor 103, 210, 202, 203, or 214; Pers 103, 201, 202, or 290, Span 103, 201, 202, 203, 214, or 290
Philosophy	C4	4	Hon 104B; Phil 190, 191, 192, 192, or 194
Integrative Capstone in Humanities	C5	4	Hum 319, 325*, 328, 330, 335, 340, 344, 350, 370, 375 380, or 385
American History and Civilization	D1	4	Hist 146, 200, or 201
American Government	D2	4	Psci 203
World Cultures	D3	4	Anth 140; Hist 140, 142, or 144; Ssci 165
SBS Discipline Perspectives	D4	4	Anth 100, or 102; Econ 104; ES 100; Geog 100; Gss 100, 101, or 103; Psyc 100; Soc 100
Integrative Capstone in the Social and Behavioral Sciences	D5	4	Ssci 300, 304, 315, 316, 320, 321, 325*, 345, or 350
The Whole Person – Physical and Physiological Issues	E1	2	Kine 205
The Whole Person – Social and Psychological Issues	E2	2	Fin 101; Phil 101; Psyc 115; Soc 110
Physical Education	E3	2	Kine 101A-S, 114A-F,120A-L, 121A-K, 137A-L, 147, 149, or 150A-K
Upper Division Writing	F	0-4	Educ 306; Eng 306; Hon 306; Hum 306; Mgmt 306; Nsci 306; Ssci 306 or passing of the WREE
Multicultural/Gender Requirement	G	0-4	One of Hum 325, 328, 335, 350, 370, 375, or 380; Nsci 325; Ssci 316, 325, or 350 or one of Anth 325 or 333; Cjus 451; Comm 304, or 401; Econ 352; Eng 314; Hum 460; Mus 308, 309, or 350; PA 305; Phil 364, or 367; TA 462 or 463

\*Students may receive credit for only one of Hum 325, Nsci 325, or Ssci 325.