

## Department of Chemistry and Biochemistry

<b>BA Chem/Biochemistry 2 year plan</b> assuming students have finished one year of general chemistry, one year of calculus and either one year of college physics (equiv to 221, 222, 223 or 121, 122, 123) or one year of biology (equivalent to bio 200, 201,202)										
	<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 221a/b	F	4	Chem 222a/b	W	4	Chem 223a/b	S	4	
	Phys 121 or Bio 200	F	5	Phys 122 or Bio 201	W	5	Phys 123 or Bio 202	S	5	
	Chem 345	FS	5	GE (B5,C5,D5)	FWS	4	GE-F NSCI or Eng 306	FWS	4	
				Elective	FWS	2	Upper division elective	FWS	4	
	Total quarter units		14			15			17	46
<b>Year 2</b>	Chem 470	F	3	Chem 437a/b	W	4	Chem 590B	FWS	1	
	Chem 590A	FWS	1	GE (B5,C5,D5)	FWS	4	Upper div elective	FWS	4	
	Biol 300	FW	5	Chem 451	W	5	Chem 452	S	5	
	Chem 436a/b	FW	5	GE (B5,C5,D5)	FWS	4	Upper div elective	FWS	2	
	Total quarter units		14			17			16	44
<b>Total Units</b>										<b>90</b>

. 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.