

School of *Computer Science and Engineering*
Academic Roadmap

	BS Bioinformatics										4 year plan	
	Fall	Qtrs	Units	Winter	Qtrs	Units	Spring	Qtrs	Units	Year Total		
Year 1	CSE 122 (GE B.4)	FWS	2	CSE 201	FWS	4	CSE 202	FWS	4			
	MATH 211 (GE A.3/B.1)	FWS	4	MATH 212	FWS	4	MATH 272	FWS	4			
	GE A.2	FWS	4	GE A.1	FWS	4	PHIL 191 (C.4)	FWS	4			
	GE A.4	FWS	4	GE D.1	FWS	4						
	Total quarter units		14			16			12		42	
Year 2	BIOL 200	FWS	5	BIOL 201	FWS	5	BIOL 202 (B.2)	FWS	5			
	CSE 330	FWS	4	CHEM 216	WS	6	MATH 262	FWS	4			
	CHEM 215 (GE B.3)	FWS	6	GE C.1	FWS	4	GE C.3	FWS	4			
				GE E.2	FWS	2						
	Total quarter units		15			17			13		45	
Year 3	CHEM 221	FW	4	CHEM 222	WS	4	CHEM 223	FS	4			
	BIOL 300	FWS	5	GE E.3	FWS	2	GE F.1	FWS	4			
	MATH 372	FWS	4	CSE 431	W	4	GE D.5	FWS	4			
	GE D.2	FWS	4	GE D.3	FWS	4	GE C.2	FWS	4			
	Total quarter units		17			14			16		47	
Year 4	CSE 572	F	4	BIOL 400	FWS	5	CSE 550	S	4			
	CSE 535	F	4	CHEM 436	FW	5	GE E.1	FWS	2			
	CSE 551	F	4	GE D.4	FWS	4	BIOL elective	FWS	4			
	CSE 500	F	4	GE C.5	FWS	4	GE B.5	FWS	4			
	Total quarter units		16			18			14		48	
Total Units											182	

Last updated: August 29, 2017 by AIC

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.