

**Bachelor of Science - Bioinformatics
First Time Freshman Academic Roadmap**

Year 1: Freshman Year				Year Total				33
Fall Semester	Term Offered	Prerequisite Courses	Units	Spring Semester	Term Offered	Prerequisite Courses	Units	
CSE 2010	Fall & Spring	CSE 1250 or Instructor Consent	4	CHEM 2100 (GE B1)	Fall & Spring	MATH 1401, 1402, 2210, or 2220	4	
MATH 2210 (GE B4)	Fall & Spring	MATH 1401 or Exam Placement	4	CHEM 2100L (GE B3)	Fall & Spring	CHEM 2100 (Corequisite)	1	
MATH 2372	Fall & Spring		3	CSE 2020	Fall & Spring	CSE 2010 and MATH 2372	4	
Oral Communication (GE A1)	Fall & Spring		3	MATH 2220	Fall & Spring	MATH 2210	4	
Critical Thinking (GE A3)	Fall & Spring		3	Written Communication (GE A2)	Fall & Spring		3	
Semester Total			17	Semester Total			16	

Year 2: Sophomore Year				Year Total				31
Fall Semester	Term Offered	Prerequisite Courses	Units	Spring Semester	Term Offered	Prerequisite Courses	Units	
BIOL 2010 (GE B2)	Fall & Spring	CHEM 2100	5	BIOL 2020	Spring	BIOL 2010	5	
CHEM 2200	Fall & Spring	CHEM 2100, GE B4	4	MATH 2265	Fall & Spring	MATH 2210	3	
CHEM 2200L	Fall & Spring	CHEM 2100, CHEM 2200 (Coreq.)	1	Foundation Seminar (GE E)	Fall & Spring		3	
MATH 2310	Fall & Spring	MATH 2210, 2220	4	General Education	Fall & Spring		3	
				General Education	Fall & Spring		3	
Semester Total			14	Semester Total			17	

Year 3: Junior Year				Year Total				31
Fall Semester	Term Offered	Prerequisite Courses	Units	Spring Semester	Term Offered	Prerequisite Courses	Units	
CHEM 2300	Fall	CHEM 2200	4	CSE 4310	Fall & Spring	CSE 2020 and MATH 2310	3	
CSE 5160	Fall	CSE 2020 and MATH 2220	3	CSE 5500	Spring	CSE 2020 and CSE 2130	3	
General Education	Fall & Spring		3	General Education	Fall & Spring		3	
General Education	Fall & Spring		3	General Education (UD)	Fall & Spring		3	
Free Elective	Fall & Spring		3	Free Elective	Fall & Spring		3	
Semester Total			16	Semester Total			15	

Year 4: Senior Year				Year Total				25
Fall Semester	Term Offered	Prerequisite Courses	Units	Spring Semester	Term Offered	Prerequisite Courses	Units	
BIOL 3120	Fall & Spring	BIOL 2020 & CHEM 2300 or 2400	4	CHEM 4100	Fall & Spring	CHEM 2300, 2500, or 3500	3	
CSE 5720	Fall	CSE 2020	3	CSE 4880 (WI)	Fall & Spring	Senior Standing	3	
General Education (UD)	Fall & Spring		3	General Education (UD)	Fall & Spring		3	
Free Elective	Fall & Spring		3	Free Elective	Fall & Spring		3	
Semester Total			13	Semester Total			12	
							Degree Units Total	120