Biology BS 4 year roadmap for Freshmen, with 1 year of Organic Chemistry

First year on Quarter System, then switching to Biology BS on Semester Catalog in Fall 2020

Year 1: Freshman Year (Quarter system))		Total QTR Units:	48	
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
MATH 192 or 211	F & W & S	4			4	See Notes 1 and 2
ENG 102, 105, or 107	F & W & S	4			4	See Note 3
GE		4				
GE		4				
GE-E1	F & W & S	2				See Note 4
CHEM 215	Fall&Winter	6	4	MATH 110*	7	*or co-req; Note 5
GE		4				
GE		4				
GE-E2	F & W & S	2	7			See Note 4
CHEM 216	Winter&Spring	6		CHEM 215	7	
GE		4				
GE		4				
Year 2: Sophomore Year	ar (Semesters)			Total Units:	30	
Course	Term(s) Offered		Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
BIOL 2010	Fall	5	1	CHEM 215		
CHEM 2400 + 2400L	Fall & Spring	4	1	CHEM 216		
PHYS 2000 + 2000L	Fall & Spring	5	4	MATH 192/211		
BIOL 2020	Spring	5	V	BIOL 2010		
CHEM 2500 + 2500L	Fall & Spring	4	V	CHEM 2400+L		
PHYS 2010 + 2010L	Fall & Spring	4	V	PHYS 2000+L		
GE		3				
Year 3: Junior Year (Se	mesters)			Total Units:	28	
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
BIOL Group A class	Fall & Spring	4	V	BIOL 2020		See Notes 6 and 7
BIOL Group B class	Fall & Spring	4	4	BIOL 2020		See Note 7
BIOL Group C class	Fall & Spring	4	V	BIOL 2020		See Note 7
BIOL Group D class	Fall & Spring	4	V	BIOL 2020		See Note 7
GE		3				
GE		3				
GE		3				
GE		3				
Year 4: Senior Year (Se	Total Units:	30				
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
BIOL major elective	Fall & Spring	5	✓	BIOL 2020		See Note 7
BIOL major elective	Fall & Spring	4	4	BIOL 2020		See Note 7
BIOL major elective	Fall & Spring	4	7	BIOL 2020		See Note 7
BIOL major elective	Fall & Spring	4	4	BIOL 2020		See Note 7
BIOL 5000	Fall & Spring	1	7	BIOL 2020		
GE		3				
GE		3				
Free elective						
r rec cicetive		3				

Biology BS 4 year roadmap for Freshmen, with 1 sem. Organic Chem. and 1 sem. Biochem. First year on Quarter System, then switching to Biology BS on Semester Catalog in Fall 2020

Total QTR Units: Year 1: Freshman Year (Quarter system) Course Term(s) Offered Units Pre-reg Regd Pre-rea Course(s) Avail Summer Notes MATH 192 or 211 F & W & S 4 V See Notes 1 and 2 ENG 102, 105, or 107 F & W & S 4 $\overline{}$ See Note 3 GΕ 4 GE 4 2 GE-E1 F & W & S See Note 4 **CHEM 215** 6 Fall&Winter ◪ MATH 110* \Box *or co-req; Note 5 GΕ 4 GE 4 2 GE-E2 F & W & S \Box See Note 4 **CHEM 216** 6 Winter&Spring **CHEM 215** V 4 GΕ GΕ 4 Year 2: Sophomore Year (Semesters) **Total Units:** 31 Course Term(s) Offered Pre-reg Regd Pre-req Course(s) Avail Summer Notes Units **BIOL 2010** Fall 5 $\overline{}$ **CHEM 215** CHEM 2300 + 2400L 5 $\overline{}$ Fall & Spring **CHEM 216** 5 PHYS 2000 + 2000L Fall & Spring $\overline{}$ MATH 192/211 5 1 **BIOL 2010 BIOL 2020** Spring CHEM 4100 + 4100L Fall & Spring 4 ✓ CHEM 2300 or 2500 Biol 2010 is prereq PHYS 2010 + 2010L 4 Fall & Spring PHYS 2000+L 1 GE 3 Year 3: Junior Year (Semesters) **Total Units:** 28 Course Term(s) Offered Units Pre-reg Regd Pre-req Course(s) Avail Summer Notes Fall & Spring **BIOL Group A class** 4 **√ BIOL 2020** See Notes 6 and 7 **BIOL Group B class** 4 7 Fall & Spring **BIOL 2020** See Note 7 4 **BIOL Group C class** 1 **BIOL 2020** Fall & Spring See Note 7 1 **BIOL Group D class** 4 **BIOL 2020** Fall & Spring See Note 7 3 GΕ GE 3 GE 3 3 GE Year 4: Senior Year (Semesters) **Total Units:** 29 Term(s) Offered Units Pre-reg Regd Pre-reg Course(s) **Avail Summer** Course Notes **BIOL** major elective Fall & Spring **BIOL 2020** 4 See Note 7 4 BIOL major elective \Box **BIOL 2020** Fall & Spring See Note 7 **BIOL** major elective 4 $\overline{}$ **BIOL 2020** Fall & Spring See Note 7 **BIOL** major elective Fall & Spring 4 \Box **BIOL 2020** See Note 7 **BIOL 5000** Fall & Spring 1 | √ | **BIOL 2020** 3 GE GΕ 3 3 Free elective 3 Free elective

Biology BS 4 year roadmap for Freshmen, with Organic Chem. and Quantitative Chem.

First year on Quarter System, then switching to Biology BS on Semester Catalog in Fall 2020

Year 1: Freshman Year (Quarter system				Total QTR Units:	48	
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
MATH 192 or 211	F & W & S	4			4	See Notes 1 and 2
ENG 102, 105, or 107	F & W & S	4			4	See Note 3
GE		4				
GE		4				
GE-E1	F & W & S	2				See Note 4
CHEM 215	Fall&Winter	6	V	MATH 110*	4	*or co-req; Note 5
GE		4				
GE		4				
GE-E2	F & W & S	2	√			See Note 4
CHEM 216	Winter&Spring	6		CHEM 215	4	
GE		4				
GE		4				
Year 2: Sophomore Year	ar (Semesters)			Total Units:	31	
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
BIOL 2010	Fall	5	√	CHEM 2015		
CHEM 2300 + 2400L	Fall & Spring	5	√	CHEM 216		
PHYS 2000 + 2000L	Fall & Spring	5	V	MATH 192/211		
BIOL 2020	Spring	5	V	BIOL 2010		
CHEM 3200	Fall & Spring	4	7	CHEM 2200+L		
PHYS 2010 + 2010L	Fall & Spring	4		PHYS 2000+L		
GE		3				
Year 3: Junior Year (Se	mesters)			Total Units:	28	
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
BIOL Group A class	Fall & Spring	4	√	BIOL 2020		See Notes 6 and 7
BIOL Group B class	Fall & Spring	4	√	BIOL 2020		See Note 7
BIOL Group C class	Fall & Spring	4	√	BIOL 2020		See Note 7
BIOL Group D class	Fall & Spring	4	V	BIOL 2020		See Note 7
GE		3				
GE		3				
GE		3				
GE		3				
Year 4: Senior Year (Se		Total Units:	29			
Course	Term(s) Offered	Units	Pre-req Reqd	Pre-req Course(s)	Avail Summer	Notes
BIOL major elective	Fall & Spring	4	✓	BIOL 2020		See Note 7
BIOL major elective	Fall & Spring	4	✓	BIOL 2020		See Note 7
BIOL major elective	Fall & Spring	4	7	BIOL 2020		See Note 7
BIOL major elective	Fall & Spring	4	✓	BIOL 2020		See Note 7
BIOL 5000	Fall & Spring	1	7	BIOL 2020		
GE		3				
GE		3				
	·	·	· —	<u></u>	· —	
Free elective	† <u>_</u>	3				

Notes for 2019 Freshman Biology BS roadmaps

- Note 1: Students may also want to take Math 120 prior to calculus
- Note 2: May have to take Math 110, 111A/B, 112A/B/C prior to calculus
- Note 3: If ENG 102, then take 103 and 104 in subsequent quarters; If ENG 105, then take 106 in subsequent quarter
- Note 4: Taking GE-E1 and GE-E2 during quarters will fullfill the GE-E requirement on semester system
- Note 5: MATH 110 is pre-requisite or co-requisite, or siutable math placement
- Note 6:Group A classes may have CHEM 2300 or 2400 as prerequisites
- Note 7: Some BIOL major courses may be 3 or 5 units instead of 4