

Updated 3/5/2020

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Diversity and History of Life BIO 160 (4)	Intro to Cell and Molecular Biology BIO 161 (4) (Recom: CHEM 110, 111, 124, or 127) [B2 & B3]	Introductory Ecology and Evolution BIO 263 (4) (BIO 160 or 161)	General Microbiology I MCRO 224 (5) (BIO 161 and CHEM 111, 124, or 127. Recom: CHEM 128)	Organic Chemistry II CHEM 217 (3) (CHEM 216 w/min C-; Coreq: CHEM 220)	General Microbiology II MCRO 225 (5) (MCRO 224)	Principles of Genetics BIO 351 (5) (BIO 161; CHEM 216, 312, or 316. Recom: BIO 263; STAT 217 or 218)	Microbial Physiology MCRO 424 (5) (MCRO 225; CHEM 313 or 371)	Cell Biology BIO 452 (4) (BIO 351 or CHEM 373; CHEM 216, 312, or 316. Recom: CHEM 313 or 371)	Senior Project BIO 461 or 462 (2) (GWR, STAT 218, Jr Standing)		
General Chem for Agriculture & Life Science I CHEM 127 (4) * [B1 & B3]	General Chem for Agriculture & Life Science II CHEM 128 (4) (CHEM 127 or AP CHEM score of 5)	General Chem for Agriculture & Life Science III CHEM 129 (4) (CHEM 128)	Organic Chemistry I CHEM 216 (5) (CHEM 126 or 129 w/min C-)	Organic Chem Lab for Life Sciences II CHEM 220 (1) (Coreq: CHEM 217)	Biochemistry CHEM 313 or 371 (5)² *	Elective (3-4)³ *	Elective (3-4)³ *	Elective (3-4)³ *	Medical Microbiology MCRO 423 (5) (Jr Standing; MCRO 225; CHEM 216, 312, or 316; Instr. consent)	General Virology MCRO 402 (4) (BIO 351 or CHEM 373. Recom: BIO 452)	Immunology BIO 426 (4) (BIO 351 or CHEM 373. Recom: CHEM 313 or 371)
	Calculus for the Life Sciences I MATH 161 (4) * [B4]	Applied Statistics for the Life Sciences STAT 218 (4) * [GE Elective]	College Physics I PHYS 121 (4) (MATH 118 or MATH 119)	College Physics II PHYS 122 (4) (PHYS 118, 121, 131, or 141)	College Physics III PHYS 123 (4) (PHYS 118, 121, 131, or 141. Recom: PHYS 122)						
Expository Writing ENGL 133/134 (4)** [A2]				GE (4) **		GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **
Oral Communication COMS 101/102 (4)** [A1]				GE (4) **			Free Elective (0-4)¹				Free Elective (0-4)¹
GE (4) **	Reasoning, Argumentation, & Writing [A3] COMS 126; COMS/ENGL 145; ENGL 148; PHIL 126 (4)** (Completion of GE A2 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.					Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)					
16	16	16	14	16	14	13	17	16	13	14	15
										TOTAL:	180

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

** One course from each of the following GE areas must be completed: A1, A2, A3, Upper-Division B, C1, C2, Lower-Division C Elective, Upper-Division C, D1, D2 (8), Upper-Division D, E, and a GE Elective. Upper-Division B, Upper-Division C, and Upper-Division D should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: Upper-Division B, C1, Upper-Division C, D1, D2, Upper-Division D, or E.

¹8 units of Free Elective credit required. Recommended: SCM 150 workshops (1) for Math/Science courses be taken in your first year.

²CHEM 371 suggested for students who plan to pursue graduate school or a health professions career.

³To be chosen with faculty advisor approval. Total of 19 units required. Limited to a total of 4 units from BIO 300, 400, 450. Care must be taken to ensure compliance with the "60 units of upper-division" requirement. At least 14 units must be 300-400 level. No double-counting with other major requirements.

Legend:

Course Title	Major (70)
Course # (Units)	Support (46)
(Prerequisite)	General Ed. (56)
[GE Area]	Free Electives (8)