

Updated 7/11/2022

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Diversity and History of Life BIO 150 (4)	Intro to Cell and Molecular Biology BIO 161 (4) (Recom: CHEM 110, 124, or 127) [B2 & B3]	Introductory Ecology and Evolution BIO 263 (4) (BIO 150 or 161)	General Microbiology I MCRO 224 (5) (BIO 161; CHEM 125 or 128. Recom: CHEM 129)	Organic Chemistry II CHEM 217 (3) (CHEM 216 w/min C- or Instr. Consent. 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 314 or 369)	Cell Biology BIO 452 (4) (BIO 351 or CHEM 373; CHEM 216, 312, or 316. Recom: CHEM 314 or 369)	Senior Project BIO 461 or 462 (2)⁴ (GWR; STAT 218; Jr Standing)		
					Elective (2)^{3,4,5} *	Elective (3)^{3,4,5} *	Elective (4)^{3,4,5} *	Elective (4)^{3,4,5} *	Select 3 courses from the following: BIO 426, BIO 475, MCRO 402, MCRO 423, or MCRO 436 (11-13)*		
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- or Instr. Consent)	Organic Chem Lab for Life Sciences II CHEM 220 (1) (Coreq: CHEM 217)	Biochemistry CHEM 314 or 369 (5)² * [Upper-Div B]						
	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) *	College Physics II PHYS 122 (4) (PHYS 121 or 141)	College Physics III PHYS 123 (4) (PHYS 118, 121, 131, or 141. Recom: PHYS 122)						
Oral Communication COMS 101/102 (4)** [A1]				GE (4) **		GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **
Expository Writing ENGL 133/134 (4)** [A2]				GE (4) **		Free Elective (4)¹		GE (4) **	Free Elective (2-3)¹	Free Elective (2-4)¹	Free Elective (2-3)¹
GE (4) **	Reasoning, Argumentation, & Writing [A3] COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGQS 145 (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	16	16	13	16	14	13	14
										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, C1, C2, Lower-Division C Elective, Upper-Division C, D1, D2, Upper-Division D, Lower-Division E, F, and GE Elective. 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.

¹ 10-14 units of Free Elective credit required. Recommended: SCM 150 workshops (1) for Math/Science courses be taken in your first year. If a General Education (GE) course is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree. Up to 6 units of free electives may need to be at the 300-400 level to ensure completion of the required minimum of 60 units of upper-division courses. Consult college advisor for additional information.

² CHEM 369 suggested for students who plan to pursue graduate school or a health professions career.

³ 19-21 units of Elective credit required in major. See catalog for course options and details. Consultation with an advisor is recommended before selecting Electives; bear in mind that selections may impact pursuit of post-baccalaureate studies and/or goals. At least 14-16 units must be upper-division (300-400 level) to ensure completion of the required minimum of 60 units of upper-division courses.

⁴ If BIO 462 is used to meet the senior project requirement, it cannot also be counted as an Elective.

⁵ Students planning to attend graduate or professional schools are strongly advised to meet with their advisors to ensure that they meet necessary prerequisites for entry into these programs. Additional courses in math and chemistry may be necessary.

⁶ If a General Education (GE) course is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.

Legend:

Course Title		Major (68-72)
Course # (Units)		Support (46)
(Prerequisite)		General Ed. (52)
[GE Area]		Free Electives (10-14) ⁶