

Updated 5/25/2022

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR			
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	
Diversity & History of Life BIO 150 (4)	Intro to Cell & Molecular Biology BIO 161 (4) (Recom: CHEM 110, 124, or 127) [B2 & B3]	Intro to Organismal Form & Function BIO 162 (4) (BIO 161, Recom: CHEM 110, 111, 124, or 127)	Introductory Ecology & Evolution BIO 263 (4) (BIO 150 or 161)	Physiology (choose one) BIO 361, 434, 435 (4) *		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)	Evolutionary Medicine or Evolution (choose one) BIO 413 or 414 (4) *			
General Chem for Agriculture & Life Science I CHEM 127 (4) * [B1 & B3]	Calculus for the Life Sciences I MATH 161 (4) * [B4]	Calculus for the Life Sciences II MATH 162 (4) (MATH 161) [GE Elective]	Organic Chemistry I CHEM 216 (5) (CHEM 126 or 129 w/min C- or Instr. Consent)	Ecology (choose one) BIO 327, 363, 442; BOT 326; MCRO 436; MSCI 300 (4)*	Principles of Genetics BIO 351 (5) *				Senior Project BIO 461 or 462 (2) *			
	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)	General Microbiology I MCRO 224 (5) (BIO 161; CHEM 125 or 128, Recom: CHEM 129)	Applied Statistics for the Life Sciences STAT 218 (4) *	Organic Chemistry II CHEM 217 (3) (CHEM 216 w/min C- or Instr. Consent, Coreq: CHEM 220)	Molecular Biology Laboratory BIO/CHEM 475 (3) (BIO 161, & min C- in BIO 351 or CHEM 373 or Instr. Consent)			Biochemical Principles CHEM 369 (5) (Jr Stgd; GE Areas A w/min C-, B1, & B4 w/min C-; BIO 161; CHEM 217 or 317)	Cell Biology BIO 452 (4) (BIO 351 or CHEM 373; CHEM 216, 312, or 316, Recom: CHEM 314 or 369)		
	Oral Communication COMS 101/102 (4)** [A1]			Organic Chem Lab for Life Sciences II CHEM 220 (1) (Coreq: CHEM 217)		Advanced Cell & Molecular Applications (3-5)^{2,3} *	Advanced Cell & Molecular Applications (3-5)^{2,3} *	Advanced Cell & Molecular Applications (3-5)^{2,3} *			Approved Electives (4)^{2,4} *	
Expository Writing ENGL 133/134 (4)** [A2]			GE (4) **		GE (4) **	GE (4) **	GE (4) **	Approved Electives (4)^{2,4} *				
Free Elective (2)¹	Free Elective (2)¹	Free Elective (1)¹	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.	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **		
				Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)			Approved Electives (4)^{2,4} *					
14	18	17	14	13	16	14	15	16	15	16	12	
										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, Upper-Division D, Lower-Division E, F, and 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.

¹ 5 units of Free Electives required. SCM 150 workshops for Math/Science courses recommended for remaining units.

² Consultation with advisor is recommended prior to selecting electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

³ **Advanced Cell & Molecular Applications:** (10 units) See Catalog for course options and guidelines. Excess units will be applied to Approved Electives.

⁴ **Approved Electives:** (12 units) See Catalog for course options and guidelines. Consult with your faculty advisor for approval to use other relevant upper-division coursework in other departments. If a course is taken to meet a Major or Support requirement, it cannot be double-counted in the concentration.

Legend:

Course Title	
Course # (Units)	Major (35)
(Prerequisite)	Support (41)
[GE Area]	Concentration (43)
	General Ed. (56)
	Free Electives (5)