

Updated 4/22/2021

FRESHMAN				SOPHOMORE		JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Diversity & History of Life <b>BIO 160 (4)</b>	Intro to Cell & Molecular Biology <b>BIO 161 (4)</b> (Recom: CHEM 110, 111, 124, or 127) [B2 & B3]	Intro to Organismal Form & Function <b>BIO 162 (4)</b> (BIO 161. Recom: CHEM 110, 111, 124, or 127)	Introductory Ecology & Evolution <b>BIO 263 (4)</b> (BIO 160 or 161)	Physical Oceanography <b>PSC 201 (4)</b>		Biological Oceanography <b>MSCI 301 (3)</b> (BIO 160; BIO 161; BIO 263; CHEM 129; STAT 218)		Marine Chemistry <b>CHEM 302 (3)</b> (CHEM 216 or 312)	Ocean Sampling Techniques <b>MSCI 403 (4)</b> (CHEM 302; MSCI 301; PSC 201; STAT 218)	Approved Elective <b>(4)<sup>3,4</sup></b> *	Approved Elective <b>(4)<sup>3,4</sup></b> *
Introduction to Marine Sciences <b>MSCI 100 (1)</b>	Calculus I <b>MATH 141 (4)<sup>4</sup></b> OR <b>MATH 161 (4)<sup>1</sup></b> * [B4]	Calculus II <b>MATH 142 (4)<sup>4</sup></b> OR <b>MATH 162 (4)<sup>1</sup></b> * [GE Elective]	Organic Chemistry I <b>CHEM 216 (5)</b> OR <b>CHEM 312 (5)</b> *	Applied Statistics for the Life Sciences <b>STAT 218 (4)</b> *	Applied Exp. Design & Regression Models <b>STAT 313 (4)</b> (STAT 217, 218, 312, or 542; MATH 118)	Marine Biodiversity Elective (4) Choose one: BIO 322, 336; MCRO 436; MSCI 324, 437			Marine Resources Conservation & Policy Elective (4) Choose one: BIO 363; MSCI 428, 438, 439		
General Chemistry for Agriculture & Life Science I <b>CHEM 127 (4)</b> * [B1]	General Chemistry for Agriculture & Life Science II <b>CHEM 128 (4)</b> (CHEM 127 or AP CHEM score of 5)	General Chemistry for Agriculture & Life Science III <b>CHEM 129 (4)</b> (CHEM 128)	Physics I <b>PHYS 121 (4)<sup>2</sup></b> OR <b>PHYS 141 (4)<sup>2</sup></b> *	Physics II <b>PHYS 122 (4)<sup>2</sup></b> OR <b>PHYS 132 (4)<sup>2</sup></b> *	Physics III <b>PHYS 123 (4)<sup>2</sup></b> OR <b>PHYS 133 (4)<sup>2</sup></b> *	Marine Ecology <b>MSCI 300 (4)</b> (BIO 160, 162, & 263 Recom. STAT 218)					
Expository Writing <b>ENGL 133/134 (4)**</b> [A2] Can be taken anytime during Freshman Year			GE (4) *	GE (4) *	GE (4) *	Communicating Science Elective (1-4) <sup>3</sup> Choose one: COMS 390, 395; ENGR 322/SCM 302; MSCI 401, 440			Senior Project <b>BIO 461 or 462 (2)<sup>6</sup></b> *		
Oral Communication <b>COMS 101/102 (4)**</b> [A1] Can be taken anytime during Freshman Year						Approved Elective <b>(3-4)<sup>3,4</sup>*</b>			Approved Elective <b>(4)<sup>3,4</sup></b> *	Approved Elective <b>(4)<sup>3,4</sup></b> *	Approved Elective <b>(3-4)<sup>3,4</sup></b> *
						GE (4) *					
						GE (4) *	GE (4) *	GE (4) *	GE (4) *	GE (4) *	GE (4) *
						Free Elective <b>(4)<sup>5</sup></b>					
						Graduation Writing Requirement <b>GWR*</b> (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)					
Reasoning, Argumentation, & Writing [A3] <b>COMS 126; COMS/ENGL 145; ENGL148; PHIL 126 (4)</b> (Completion of GE A2 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.											
16	16	16	13	16	16	16	16	15	13	16	12
										TOTAL:	181

**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.

<sup>1</sup> Students emphasizing Chemistry, Physics or Engineering should take MATH 141 and 142.

<sup>2</sup> Students emphasizing Physics should take PHYS 141, 132 and 133.

<sup>3</sup> Students need 26 combined units between the Communicating Science Elective and Approved Elective requirements.

<sup>4</sup> 23-26 Advisor Approved Electives Required. Senior Project course cannot count. See catalog for course options.

<sup>5</sup> SCM 150 workshops for Math/Science recommended. Additional free electives may be required if Upper-Division B is satisfied with an Approved Elective.

<sup>6</sup> Planning for BIO 462 senior project should start early during the junior year.

**Legend:**

Course Title		Major (71)
Course # (Units)		Support (49)
(Prerequisite)		General Ed. (56)
[GE Area]		Free Electives (4)