

Updated 6/7/2022

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Diversity & History of Life <b>BIO 150 (4)</b>	Intro to Cell & Molecular Biology <b>BIO 161 (4)</b> (Recom: CHEM 110, 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 150 or 161)	Physical Oceanography <b>PSC 201 (4)</b>		Biological Oceanography <b>MSCI 301 (3)</b> (BIO 150; BIO 161; BIO 263; CHEM 129; MSCI 300; PSC 201; STAT 218)	Elective <b>(3-4)<sup>1,2,9</sup></b> *	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)	Elective <b>(4)<sup>1,2,9</sup></b> *	Elective <b>(4)<sup>1,2,9</sup></b> *
Orientation to Marine Sciences <b>MSCI 100 (1)</b>	Calculus I <b>MATH 141 (4)<sup>5</sup></b> OR <b>MATH 161 (4)</b> * [B4]	Calculus II <b>MATH 142 (4)<sup>5</sup></b> OR <b>MATH 162 (4)</b> * [GE Elective]	Organic Chemistry I <b>CHEM 216 (5)<sup>4</sup></b> OR <b>CHEM 312 (5)</b> *	Applied Statistics for the Life Sciences <b>STAT 218 (4)</b> *		Marine Biodiversity Elective <b>(4)<sup>2</sup></b> Choose one: BIO 322, 336; MCRO 436; MSCI 324, 437			Marine Resources Conservation & Policy Elective <b>(4)<sup>2</sup></b> 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)</b> OR <b>PHYS 141 (4)<sup>6</sup></b> *	Physics II <b>PHYS 122 (4)</b> OR <b>PHYS 142 (4)<sup>6</sup></b> *	Physics III <b>PHYS 123 (4)</b> OR <b>PHYS 143 (4)<sup>6</sup></b> *	Applied Exp. Design & Regression Models <b>STAT 313 (4)</b> * [Upper-Div B]	Introduction to Geology <b>GEOL 102 (4)</b>		Elective <b>(4)<sup>1,2,9</sup></b> *	Elective <b>(4)<sup>1,2,9</sup></b> *	Elective <b>(3-4)<sup>1,2,9</sup></b> *
Oral Communication <b>COMS 101/102 (4)**</b> [A1] Can be taken anytime during Freshman Year	Expository Writing <b>ENGL 133/134 (4)**</b> [A2] Can be taken anytime during Freshman Year		GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	Elective <b>(3-4)<sup>1,2,9</sup></b> *
	Reasoning, Argumentation, & Writing [A3] <b>COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGQS 145 (4)**</b> (Completion of GE A2 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.					Free Elective <b>(8)<sup>4,7,10</sup></b>					
						Graduation Writing Requirement (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)					
13	16	16	17	16	16	15	16	15	12	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, 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.

<sup>1</sup> If BIO 461 or BIO 462 is used to meet the senior project requirement, it cannot be double-counted as an Elective. Planning for BIO 462 senior project should start early during the junior year.

<sup>2</sup> If a course is taken to meet a Major or Support requirement, it cannot be double-counted as an Elective.

<sup>3</sup> No more than 3 units from COMS 390, COMS 395, ENGR 322/SCM 302, MSCI 440.

<sup>4</sup> If CHEM 216 is taken, then some Free Electives may need to be 300-400 level to ensure completion of the required minimum of 60 units of upper-division.

<sup>5</sup> Students emphasizing in Chemistry, Physics or Engineering should take MATH 141 and MATH 142 instead of MATH 161 and MATH 162. GE Area B4 will be met with any of the following: MATH 161, MATH 162, MATH 141, MATH 142.

<sup>6</sup> Students emphasizing in Physics should take PHYS 141, PHYS 142 and PHYS 143 instead of PHYS 121, PHYS 122 and PHYS 123. GE Area B1 will be met with any of the following: PHYS 121, PHYS 122, PHYS 141 or PHYS 142.

<sup>7</sup> 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.

<sup>8</sup> Excess units will be applied to Electives.

<sup>9</sup> 25 units of Electives required in major. At least 18 units must be upper-division. See catalog for course options and details. Select courses carefully to ensure that you have taken enough 300-400 level courses to meet the required 60 units of upper-division courses for the degree.

<sup>10</sup> SCM 150 workshops for Math/Science recommended.

**Legend:**

Course Title		Major (71)
Course # (Units)		Support (49)
(Prerequisite)		General Ed. (52)
[GE Area]		Free Electives (8)