

Updated 7/21/14

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Diversity and History of Life <b>BIO 160 (4)</b>	Intro to Cell and Molecular Biology <b>BIO 161 (4)</b> (Recom: CHEM 110, 111, 124, or 127) [B2/B4]	Introductory Ecology and Evolution <b>BIO 263 (4)</b> (BIO 160 or 161)	General Microbiology I <b>MCRO 224 (5)</b> (BIO 161 and CHEM 111, 124, or 127. Recom: CHEM 128)	<b>GE (4)</b> **	General Microbiology II <b>MCRO 225 (5)</b> (MCRO 224)	Principles of Genetics <b>BIO 351 (5)</b> (BIO 161. Coreq: CHEM 216, 312, or 316. Recom: BIO 263)	Cell Biology <b>BIO 452 (4)</b> (BIO 351 or CHEM 373; CHEM 216, 312, or 316. Recom: CHEM 313 or 371)	General Virology <b>MCRO 402 (4)</b> (BIO 351 or CHEM 373. Recom: BIO 452)	Senior Project <b>BIO 461 or 462 (2)</b> (Jr Standing)	Advisor Approved Elective <b>(3)<sup>2</sup></b> *	
General Chemistry I <b>CHEM 127 (4)</b> * [B3/B4]	General Chemistry II <b>CHEM 128 (4)</b> (CHEM 127 or AP CHEM score of 5)	General Chemistry III <b>CHEM 129 (4)</b> (CHEM 125 or 128)	Organic Chemistry for Life Sciences I <b>CHEM 216 (5)</b> (CHEM 125 or 129)	Organic Chemistry for Life Sciences II <b>CHEM 217 (4)</b> (CHEM 216/316)	Biochemistry <b>CHEM 313 or 371 (5)<sup>3</sup></b> *	Advisor Approved Elective <b>(4)<sup>2</sup></b> *	Advisor Approved Elective <b>(4)<sup>2</sup></b> *	Advisor Approved Elective <b>(4)<sup>2</sup></b> *	Medical Microbiology <b>MCRO 423 (5)</b> (Jr Standing, MCRO 225, and CHEM 216, 312, or 316, Instr Consent)	Microbial Physiology <b>MCRO 424 (5)</b> (MCRO 225; CHEM 313 or 371)	<b>GE (4)</b> **
Free Elective <b>(2)<sup>1</sup></b>	Calculus for the Life Sciences I <b>MATH 161 (4)</b> * [B1]	Applied Statistics for the Life Sciences <b>STAT 218 (4)</b> * [B1]	College Physics I <b>PHYS 121 (4)</b> (MATH 118 or MATH 119)	College Physics II <b>PHYS 122 (4)</b> (PHYS 118, 121, 131, or 141)	College Physics III <b>PHYS 123 (4)</b> (PHYS 118, 121, 131, or 141. Recom: 122)	<b>GE (4)</b> **	<b>GE (4)</b> **	Advisor Approved Elective <b>(4)<sup>2</sup></b> *	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **
	Free Elective <b>(1)<sup>1</sup></b>	Free Elective <b>(1)<sup>1</sup></b>		Free Elective <b>(4)<sup>1</sup></b>			<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	
Expository Writing <b>ENGL 133/134 (4)**</b> [A1] Can be taken anytime during Freshman Year	Oral Communication <b>COMS 101/102 (4)**</b> [A2] Can be taken anytime during Freshman Year										
	Reasoning, Argumentation, & Writing [A3] <b>COMS 126; COMS/ENGL 145; ENGL 148; PHIL 126 (4)**</b> (Completion of GE A1 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.										
						Graduation Writing Requirement <b>GWR*</b> (Can be taken any time after 90 earned units)					
14	17	17	14	16	14	13	16	16	15	16	12
										<b>TOTAL:</b>	<b>180</b>

**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, C3, C4, C1-C5 elective, D1, D2, D3, D4, D5 and F.

C4, D5 and F 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: C3, C4, D1, D3, D4, D5 or F.

<sup>1</sup> Eight units of elective credit required for the major. Recommended: SCM 150 workshops (1) for Math/Science courses be taken in your first year.

<sup>2</sup> To be chosen with faculty advisor approval. Total of 19 units required. Limited to a total of 4 units from BIO 400, 450, 462, 463. At least 14 units must be upper division.

<sup>3</sup> CHEM 371 suggested for students who plan to pursue graduate school or a health professions career.

**Legend:**

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