

Updated 10/27/14

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Diversity & the History of Life <b>BIO 160 (4)</b>	Introduction to Cell and Molecular Biology <b>BIO 161 (4)</b> [B2/B4]	Introduction to Organismal Form & Function <b>BIO 162 (4/5)</b> (BIO 161)	Introductory Ecology and Evolution <b>BIO 263 (4)</b> (BIO 160 or 161)	Ecology Course <b>(4)<sup>2</sup></b> *	Biological Diversity <b>(4)<sup>2</sup></b> *	Physiology <b>(4)<sup>2</sup></b> *	Botany Concentration Elective <b>(4)</b> *	Microbiology Concentration Elective <b>(3-5)</b> *	Senior Project <b>BIO 461 or 462 (2)<sup>4</sup></b> (Jr Standing)	Molecular / Cellular Biology Concentration Elective <b>(3-4)</b> *	Evolution <b>BIO 414 (4)</b> (BIO 263 or equiv, BIO 303 or 351)
General Chemistry <b>CHEM 127 (4)</b> * [B3/B4]	General Chemistry II <b>CHEM 128 (4)</b> (CHEM 127)	General Chemistry III <b>CHEM 129 (4)</b> (CHEM 125 or 128)	Organic Chemistry <b>CHEM 312 (5)*</b> OR <b>CHEM 216 (5)*</b> OR <b>CHEM 316 (5)*</b>	Biochemistry <b>CHEM 313 (5)</b> (CHEM 212, 216, 312, or 316) OR <b>CHEM 371 (5)</b> (CHEM 217 or 317; BIO 161)	GE (4) *	Principles of Genetics <b>BIO 351 (5)</b> (BIO 161. Coreq: CHEM 216, 312, or 316)	Research, Projects, and Seminars Concentration Elective <b>(0-4)<sup>3</sup></b> *	Anatomy/ Physiology Concentration Elective <b>(4-5)</b> *	Zoology Concentration Elective <b>(4)</b> *	Advisor Approved Elective <b>(0-4)<sup>5</sup></b> *	Advisor Approved Elective <b>(2-4)<sup>5</sup></b> *
Free Elective (2) <sup>1</sup>	Calculus for the Life Sciences I <b>MATH 161 (4)</b> * [B1]	Calculus for the Life Sciences II <b>MATH 162 (4)</b> (MATH 161) [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)	Applied Statistics for the Life Sciences <b>STAT 218 (4)</b> *	GE (4) *	GE (4) *	GE (4) *	Ecology / Evolution / Conservation Concentration Elective <b>(3-4)</b> *	Advisor Approved Elective <b>(0-5)<sup>5</sup></b> *
	Free Elective (1) <sup>1</sup>	Free Elective (2) <sup>1</sup>		GE (4) *	GE (4) *	Research, Projects, and Seminars Concentration Elective <b>(0-2)<sup>3</sup></b> *	GE (4) *	GE (4) *	GE (4) *	GE (4) *	GE (4) *
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	14-15	17	17	16	13-15	12-16	15-18	14	10-16	10-17
										<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-C4 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>4-6 units of elective credit required for the degree. SCM 150 workshops for Math/Science courses recommended for remaining units.

<sup>2</sup>See curriculum display or online catalog for Biodiversity, Physiology and Ecology options.

<sup>3</sup>Maximum of 6 units may be applied toward the major from any combination of the following: BIO 400, 450, 462, 463.

<sup>4</sup>Bio 461 or 462 may be chosen. The planning for Bio 462 senior project should start early during the junior year.

<sup>5</sup>Advisor Approved Electives-To be chosen with faculty advisor approval. Total of 2-13 units required, depending on unit values of concentration course selections.

†Course can be taken previously or concurrently.

**Legend:**

Course Title	Major (39-40)
Course # (Units)	Support (41)
(Prerequisite)	Concentration (38-39)
[GE Area]	General Ed. (56)
	Free Electives (4-6)