

# BA: Biology — Ecological Option (120 S.H. required to complete the degree)

Name: \_\_\_\_\_ Adviser: \_\_\_\_\_



## General Education Requirements (43 S.H.)

<b>COMMUNICATION SKILLS (3 S.H.)</b> Choose one of the following: COM 160 Public Speaking, COM 161 Decision Making in Groups, COM 162 Interpersonal Communication <b>or</b> COM 163 Introduction to Communication Skills		
COM:	3	
<b>WRITING INTENSIVE (W)</b> All students must complete at least one writing intensive course. W courses can be found in several disciplines. The credits will be counted in the discipline associated with the course. <b>NOTE:</b> WRT101 does not satisfy the writing intensive requirement.		
Course:	Y/N	
<b>FOREIGN LANGUAGE</b> All biology majors must complete a foreign language requirement. This may be done by completing a language at an elementary II level or above. Students who have completed three years of language in high school with at least a C average have satisfied this requirement. (For more info, click the link above.)		
Foreign Language Requirement Met?	Y / N	
<b>HUMANITIES (15 S.H.)</b> Humanities courses can be found in Art, Communication, English, Foreign Languages, History, Humanistic Studies, Music, Philosophy, Theatre and Writing. Students may only use one studio course to satisfy this requirement. You must complete courses in at least 3 areas. <b>NOTE:</b> You must complete the foreign language requirement (Elementary II or higher) before counting Elementary I foreign language courses as Humanities credit.		
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
<b>SOCIAL AND BEHAVIORAL SCIENCES (12 S.H.)</b> Courses that satisfy this requirement can be found in Social Sciences (Anthropology, Economics, Political Science, Social Sciences, and Sociology), Non-Western Cultures, and Psychology. <i>You must select courses from at least 2 of the 3 main areas: Social Sciences, Psychology and Non-Western Cultures.</i>		
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
<b>NATURAL SCIENCES, MATHEMATICS &amp; COMPUTER SCIENCE (11 S.H.)</b> Students must complete one lab Science and at least one math or computer Science course in this category. <b>NOTE:</b> MAT100 does not satisfy this requirement.		
CHE110 General Chemistry I	4	
CHE111 General Chemistry II	4	
MAT115 Biostatistics <b>or</b> MAT120 Elementary Statistics	3	
<b>HEALTH PROMOTION AND EXERCISE SCIENCES (2 S.H.)</b>		
HPX 177 Fitness for Life — Lecture	1	
HPX 177 Fitness for Life — Activity	1	

\*Biology Majors are required to take the Science courses specified above for the general education requirements. This means that your general education semester hour total is 43 instead of the average 42.

## Major Requirements (59-61 S.H.)

BIO 103 General Biology I	4	
BIO 104 General Biology II	4	
BIO 200 Ecology (Fall)	4	
BIO 205 Animal Physiology (Spring)	4	
BIO 216 Microbiology	4	
BIO 260 Modes of Scientific Communication	3	
BIO 312 Genetics (Fall)	4	
BIO 320 Conservation Ecology <b>or</b> BIO450 Population Ecology <b>or</b> BIO 475 Climate Ecology	3-4	
BIO 325 Evolutionary Biology (Spring)	3	
BIO 480 Group Senior Research <b>or</b> BIO 490 Senior Research	3	
<b>BIOLOGY MAJOR ELECTIVES 200-level or above (11-12 S.H.)</b>		
BIO Elective:	3-4	
BIO Elective:	3-4	
BIO Elective:	3-4	
<b>PHYSICAL SCIENCE/MATH COURSES</b> chosen with department approval (12 S.H.). Must include 1 of the following 2 semester sequences: CHE 205 & 206 Analytic Chem 1&2; PHY110 & 111 General Physics (w/calc); PHY120 & 121 Gen. Physics; MAT181 & 182 Calculus 1&2. Additional approved courses include: CHE 10 & 111 Organic Chem 1&2; CHE 421 & 422 Biochemistry 1&2; ES 110 Physical Geology, ES 111 Historical Geology		
Approved Course-sequence semester 1:	3-4	
Approved Course-sequence semester 2:	3-4	
Approved Course:	3-4	
Approved Course:	3-4	
<b>FREE ELECTIVES (16-18 S.H.)</b>		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		

**Free electives offer an opportunity to complete a minor, study a second language, study abroad, or participate in an internship. Make a plan.**

**NOTES**

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## Four-Year Plan This is a sample sequence of courses. Other combinations are possible.



Pre-requisites are in parentheses; see catalog for details.

Class standing by credit: Freshman: 0-29 credits; Sophomore: 30-59 credits; Junior: 60-89 credits; Senior: 90+ credits

FIRST YEAR (28 S.H.)	SEMESTER 1 (14 S.H.)			SEMESTER 2 (14 S.H.)		
	BIO 103 General Biology I (MAT and WRT 098, or placement test)	4		BIO 104 General Biology II (≥C in BIO 103)	4	
	CHE 110 General Chemistry I (Placement test or ≥ B in CHE 100)	4		CHE 111 General Chemistry II (CHE 110)	4	
	MAT 100 or Free Elective	3		Gen Ed: Communication Skills	3	
	WRT 101 Composition I: Habit of Writing or Free Elective	3		Writing Intensive in Humanities or Social & Behavioral Sciences	3	

SECOND YEAR (-34 S.H.)	SEMESTER 3 (16-17 S.H.)			SEMESTER 4 (17 S.H.)		
	BIO 200 Ecology (BIO 103 & 104)	4		BIO 205 Animal Physiology (BIO 104 OR BIO 110)	4	
	Physical Science or Math Elective	3 – 4		Bio 216	4	
	Gen Ed: Humanities	3		Gen Ed: Humanities	3	
	MAT115 Biostatistics or MAT120 Elementary Statistics	3		Gen Ed: Social & Behavior Sciences	3	
	BIO 260 Modes of Scientific Communication	3		Gen Ed: Social & Behavioral Sciences	3	

THIRD YEAR (30-34 S.H.)	SEMESTER 5 (16-17 S.H.)			SEMESTER 6 (15-17 S.H.)		
	BIO 312 Genetics (BIO 104 and Junior standing)	4		BIO 325 Evolutionary Biology (BIO 312)	3	
	BIO 320 Conservation or BIO 450 Population or BIO 475 Climate Eco.	4		Free Elective	3	
	Biology Elective-Sequence Semester 1	3 – 4		Biology Elective-Sequence Semester 2	3 – 4	
	Gen Ed: Humanities or Foreign Language if required	3		Free Elective	3 – 4	
	HPX 177 Fitness for Life (Lecture & Activity)	2		Gen Ed: Humanities or Foreign Language if required	3	
Complete a degree audit and plan for application for graduation						

FOURTH YEAR (30-32 S.H.)	SEMESTER 7 (12 S.H.)			SEMESTER 8 (15-16 S.H.)		
	BIO 480 Group Senior Research or BIO 490 Senior Research (BIO 360 and Senior standing and, for 490, 3.0 GPA in major and dept. approval)	3		Biology Elective or Free Elective	3 – 4	
	Free Elective	3		Physical Science or Math Elective	3 – 4	
	Biology Elective	3		Gen Ed: Social & Behavioral Sciences	3	
	Gen Ed: Social & Behavioral Sciences	3		Gen Ed: Humanities or Free Elective	3	
			Free Elective	3		

The number of Free Electives available will vary based on your initial math, writing, and chemistry placement tests. MAT 100, WRT 101 and CHEM 100, if required, count as elective credit.

Because you have variable options (3 or 4 credit courses) it is important to keep track of your total semester hours to be sure you reach 120 by the end of your 4th semester.