

Biology Major, Ecology/Biodiversity Emphasis Plan

The suggested schedule shown below should be used in conjunction with the major requirement sheet at:
<http://www.usu.edu/majorsheets/>

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Freshman Year (30 credits)

Fall Semester (15 credits)

BIOL 1610 Biology I	4
CHEM 1210 Principles of Chemistry I	4
CHEM 1215 Chemical Principles Laboratory I	1
University Studies or MATH ¹ prerequisite courses	6

Spring Semester (15 credits)

BIOL 1620 (BLS) Biology II	4
CHEM 1220 (BPS) Principles of Chemistry II	4
CHEM 1225 Chemical Principles Laboratory II	1
University Studies or MATH ¹ prerequisite courses	6

Sophomore Year (30-35 credits)

Fall Semester (15-18 credits)

BIOL 2220 General Ecology (3 cr) or	
BIOL 3060 (QI) Principles of Genetics (4 cr)	3 or 4
CHEM 2300 Principles of Organic Chemistry	3
CHEM 2315 Organic Chemistry Laboratory I	1
MATH 1210 (QL) Calculus I	4
University Studies or elective courses	4-6

Spring Semester (15-17 credits)

BIOL 2220 General Ecology (3 cr) or	
BIOL 3060 (QI) Principles of Genetics (4 cr)	3 or 4
CHEM 3700 Introductory Biochemistry	3
CHEM 3710 Introductory Biochemistry Laboratory	1
STAT 3000 (QI) Statistics for Scientists	3
University Studies or elective courses	5-6

Junior Year (30-35 credits)

Fall Semester (15-17 credits)

BIOL 3300 General Microbiology (4 cr) or	
Biology elective course (3-4 cr)	3 or 4
BIOL 3220 (QI) Field Ecology	2
GEO 1110 (BPS) The Dynamic Earth: Physical Geology	4
PHYS 2110 General Physics—Life Sciences I (4 cr) or	
PHYS 2210 (QI) General Physics—Science	
and Engineering I (4 cr)	4
University Studies or elective course	2-3

Spring Semester (15-18 credits)

BIOL 3300 General Microbiology (4 cr) or	
Biology elective course (3-4 cr)	3 or 4
PHYS 2120 (BPS) General Physics—Life Sciences II (4 cr) or	
PHYS 2220 (BPS/QI) General Physics—Science	
and Engineering II (4 cr)	4
Biology elective course	2-4
University Studies or elective courses	6

Senior Year (30-36 credits)

Fall Semester (15-18 credits)

BIOL 5250 (CI) Evolutionary Biology	3
PSC 3000 Fundamentals of Soil Science	4
Upper-division Physiology elective course (4-5 cr) or	
Biology elective course (3-5 cr)	3-5
University Studies or elective courses	5-6

Spring Semester (15-18 credits)

Biology elective course	3 or 4
Upper-division Physiology elective course (4-5 cr) or	
Biology elective course (3-5 cr)	3-5
University Studies or elective courses	9

¹If students need Math courses prerequisite to MATH 1210, Calculus I, credits in addition to those listed here will be required.