



Department of Biological Sciences
College of Science, Technology, Engineering,
and Math (2025-26)

Suggested Curriculum Guide for B.S in Biology, Biodiversity & Conservation Concentration

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning	3
BIO 111/L- Cell and Molecular Biology/ Lab	4
^G CHE 111 (<i>fulfills Gen. Ed. 4</i>)- General Chemistry I	3
CHE 111L- General Chemistry I Lab	1
Gen. Ed. 1A (<i>ENG 101</i>)	3
Gen. Ed. 5B (<i>Soc. & Behav. Sci.</i>)	3

Sophomore (1st Semester) 14-15 hrs

BIO 318- Botany	4
CHE 361- Organic Chemistry I	3
CHE 361L- Organic Chemistry I Lab	1
STA 215 <i>or</i> 270- Intro. to Statistical Reasoning or Applied Statistics	3-4
Gen. Ed. 3A (<i>Arts</i>)	3

Junior (1st Semester) 15-16 hrs

BIO 316- Ecology	4
^G PHY 131 <i>or</i> 201 (<i>fulfills Gen. Ed. 4</i>)- College Physics I or University Physics I	5
Earth & Environmental Science Elective	3-4
Gen. Ed. 3B Course 1	3

Senior (1st Semester) 15 hrs

BIO 315- Genetics	4
* BIO 532- Conservation Biology	3
Diversity of Life Elective	3-4
Gen. Ed. 3B (<i>Humanities</i>) <i>or</i> Specialized Ecology Behavior Elective	3
Free Elective	0-2

Freshman (2nd Semester) 14-15 hrs

BIO 112/L- Ecology and Evolution/Lab	4
CHE 112- General Chemistry II	3
CHE 112L- General Chemistry II Lab	1
Gen. Ed. 1B (<i>ENG 102</i>)	3
^G MAT 234 <i>or</i> 211 (<i>fulfills Gen. Ed. 2</i>)- Calculus I or Applied Calculus	3-4

Sophomore (2nd Semester) 13-16 hrs

BIO 319- Zoology	4
Diversity of Life Elective	3-4
Special Skills Elective	3
Gen. Ed. 1C (<i>Oral Comm.</i>)	3
Free Elective	0-2

Junior (2nd Semester) 14-15 hrs

BIO 320- Principles of Microbiology	4
Gen. Ed. 5A (<i>History</i>)	3
Gen. Ed. 5B course 2	3
Free Elective (<i>upper division</i>)	3
Free Elective	1-2

Senior (2nd Semester) 15 hrs

BIO 495- Evolution Theory and Application	1
Gen. Ed. 3B (<i>Humanities</i>) <i>or</i> Specialized Ecology & Behavior Elective	3
BIO 514- Evolution	3
Free Elective	3
Free Elective	3
Free Elective (<i>upper division</i>)	2

^G Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS
General Education
Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)

39 hours
36 hours
3 hours

MAJOR REQUIREMENTS
Core Courses

BIO 111, BIO 112, BIO 315, BIO 316, BIO 318, BIO 319, BIO 320, BIO 495

29 hours

Concentration Requirements

BIO 514, BIO 532,

15-17 hours

PLUS, SIX (6) HOURS selected from (Diversity of Life Elective):

BIO 335, BIO 342, BIO 525, BIO 528, BIO 536, BIO 542, BIO 548, BIO 553, BIO 554, BIO 556, BIO 557, BIO 595

PLUS, THREE (3) HOURS selected from (Specialized Ecology & Behavior Elective):

BIO 349, BIO 520, BIO 521, BIO 550, BIO 555, BIO 558, BIO 561, BIO 598

Supporting Course Requirements 20-23 hours

^G CHE 111, CHE 111L, CHE 112, CHE 112L, CHE 361, CHE 361L, ^{G*} MAT 234 or ^{G*} MAT 211, ^{G*} PHY 131 or PHY 201, STA 215 or STA 270

PLUS, THREE (3) HOURS selected from (Special Skills Elective)

CSC 174, * GEO 353

PLUS, THREE (3) HOURS selected from (Earth & Environmental Science Elective):

AGR 215, AGR 216, GEO 302, GEO 325, GEO 435, GLY 303, GLY 315

Free Electives

12-17 hours

