



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

Suggested Curriculum Guide for B.S. in Biology, General Biology Concentration

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning
BIO 111/L- Cell and Molecular Biology/Lab
^G CHE 111 (*fulfills Gen. Ed. 4*)- General Chemistry I
CHE 111L- General Chemistry I Lab
Gen. Ed. 1A (*ENG 101*)
Gen. Ed. 3A (*Arts*)

Sophomore (1st Semester) 14-15 hrs

BIO 318- Botany
CHE 361- Organic Chemistry I
CHE 361L- Organic Chemistry I Lab
STA 215 or 270- Intro. to Statistical Reasoning or Applied
Statistics
Free Elective

Junior (1st Semester) 15 hrs

BIO 315- Genetics
^G PHY 131 or 201 (*fulfills Gen. Ed. 4*)- College Physics I or
University Physics I
Gen. Ed. 5A (*History*)
Gen. Ed. 3B (*Humanities*) Course 1

Senior (1st Semester) 16 hrs

BIO 316- Ecology
Gen. Ed. 3B Course 2
Free Elective (*upper division*)
Free Elective
Free Elective

Freshman (2nd Semester) 14-15 hrs

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

Sophomore (2nd Semester) 16 hrs

4 BIO 319- Zoology 4
3 † BIO (*upper division*) requirement 3
1 Gen. Ed. 1C (*Oral Comm.*) 3
3-4 Free Elective 3
3 Free Elective 3

Junior (2nd Semester) 13-15 hrs

4 BIO 320- Principles of Microbiology 4
5 † BIO (*upper division*) requirement 3
† BIO (*upper division*) requirement 3
3 Gen. Ed. 5B (*Soc. & Behav. Sci.*) Course 1 3
3 Free Elective 0-2

Senior (2nd Semester) 13 hrs

4 † BIO (*upper division*) requirement 3
3 BIO 495- Evolution Theory and Application 1
3 Gen. Ed. 5B course 2 3
3 Free Elective 3
3 Free Elective 3

^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

Total hours University Graduation Requirements

36 hours

MAJOR REQUIREMENTS

Core Courses

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

29 hours

Concentration Requirements

Any 300, 400, or 500 level BIO, CHE, or PHY course not included in Biology Core or from which Biology majors are not excluded.
PHY 132 Or PHY 202

12 hours

Supporting Course Requirements

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

14-16 hours

Free Electives

23-25 hours

Total Curriculum Requirements

120 hours