

BIOLOGY: ZOOLOGY, BOTANY, & EVOLUTIONARY BIOLOGY OPTION**Bachelor of Science (BS)**

This is a guide based on the 2025-2026 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Woks to monitor their individual progress.

CURRICULUM CHECKLIST

"Critical Courses" are **italicized and bolded**. Data shows that students who have completed this course in the first two years and have earned the noted grade are most likely to complete this program of study.

65-68 hour major – No minor required

___ **BY163 Evolution & Ecology (4)**

___ BY173 Cell & Organismal Biology (4)

___ **BY283 Genetics (4)**

___ BY389 Career Development in Biology (2)

___ CH184 General Chemistry I Lab (1)

___ CH185 General Chemistry I (3)

___ MI101 Introduction to Microcomputer Applications (3)

Choose one math course:

___ MA116 Precalculus A (3)

___ MA137 Precalculus (5)

___ MA139 Applied Calculus (3)

___ MA140 Analytical Geometry & Calculus I (5)

Experiential Learning Requirement: 2 hours

___ BY580 Development of Instructional Materials (3)

___ BY582 Internship in Biology (1-3)

___ BY585 Biology Field Studies (1-6)

___ BY587 Experience in Museum Curation (1-3)

___ BY591 Biological Research (1-6)

Zoology, Botany, & Evolutionary Biology Option Required Courses

___ BY320 Zoology (4)

___ BY321 Introduction to Evolutionary Biology (3)

___ BY322 Introduction to Biological Collections (3)

___ **BY330 General Ecology (4)**

___ BY360 Plant Biology (4)

___ BY420 Biogeography (3)

OR

___ BY421 Phylogenetic Systematics (4)

Choose 6 hours:

___ BY460 Ethnobotany (3)

___ BY461 Plant Physiology (3)

___ BY462 Field Botany - Fall Flora (3)

___ BY463 Field Botany – Spring Flora (3)

___ BY464 Native Aquatic Plants (3)

___ BY565 Plant Diversity Collections (3)

Choose 6 hours:

___ BY312 Comparative Anatomy (3)

___ BY471 Invertebrate Zoology (3)

___ BY472 Parasitology (3)

___ BY473 Entomology (3)

___ BY474 Aquatic Entomology (3)

___ BY475 Ichthyology (3)

___ BY476 Herpetology (3)

___ BY477 Mammalogy (3)

___ BY478 Ornithology (3)

___ BY481 Vertebrate Adaptations (3)

Choose 6 hours:

___ BYxxx, EVxxx, GT 300 level and above

Non-Biology Requirement:

___ MA223 Elementary Probability & Statistics (3)

General Education Requirements – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	BY173/073	4
	BY163/063	4	EN100	3
	CH184/CH185	4	MA223	3
	MA116/137/139/140	3-5	General Education	3
	MI101	3	General Education	3
	Total	15-17	Total	16
	Milestone: achieve a target cumulative GPA of 3.0			
SECOND YEAR	BY283/083	4	BY321	3
	BY330	4	BY322	3
	General Education	3	BY389	2
	General Education	3	General Education	3
			General Education	3
	Total	14	Total	14
	Milestone: achieve a target cumulative GPA of 3.0			
THIRD YEAR	BY420 or BY421	3-4	BY360	4
	BY320/020	4	BYxxx Upper-level elective	3
	General Education	3	Elective	3
	Elective	3	Elective	3
	Elective	3	Elective	3
	Total	16-17	Total	16
	Milestone: achieve a target cumulative GPA of 3.0			
FOURTH YEAR	Experiential Learning Course	2	BYxxx Upper-level elective	3
	BYxxx elective	3	General Education	3
	General Education	3	Elective	3
	Elective	3	Elective	3
	Elective	3	Elective	3
	Total	14	Total	15
	Milestone: achieve a target cumulative GPA of 3.0			

A "Milestone" signifies a significant stage for a student in the completion of a degree.

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.

Revised
7/9/2025

2025-2026 *degree map*

