

Degree Title
Arkansas State University - Jonesboro
Bachelor of Science
Major: Wildlife, Fisheries & Conservation—Wildlife Emphasis
2024-2025

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 40 hours of upper division credit (3000-4000 level) is required for this degree. It is important to note that some upper-level degree requirements may be courses that are only offered once every two years. Students and advisors must become familiar with the cycle of teaching these courses. Students and advisors must also be aware that some courses may be taught only in Fall or Spring semesters. Mandatory state and institutional assessment exams will be required during your degree program. **Failure to participate in required assessments may delay graduation.**

Pre-requisites that dictate the sequence of some courses:

- **CHEM 1011 & CHEM 1013 General Chemistry I and the lab** require **MATH 1023 College Algebra**
- **MATH 1023 College Algebra** requires ACT Math ≥ 21
- **MATH 1054 Precalculus** requires **MATH 1023 College Algebra** or ACT Math ≥ 23 .
- **MATH 2204 Calculus I** requires **MATH 1023 College Algebra** **and** **MATH 1033 Plane Trigonometry** or **MATH 1054 Precalculus** or ACT Math ≥ 26 .
- **MATH 2214 Survey of Calculus** requires **MATH 1023 College Algebra** or **MATH 1054 Precalculus** or ACT Math ≥ 26 .

- **BIO 4043 Biometry** requires **MATH 1023 College Algebra**.
- **STAT 3233 Applied Statistics I** requires **MATH 1023 College Algebra**.

- **PSSC 2811 & PSSC 2813 Soils and the lab** require **CHEM 1011 & CHEM 1013 General Chemistry I and the lab**.

- **BIO 2011 & BIO 2013 Biology of the Cell and the lab** require **CHEM 1011 & CHEM 1013 General Chemistry I and the lab**.

- **BIO 3011 & BIO 3013 Genetics and the lab** require **BIO 2011 & BIO 2013 Biology of the Cell and the lab**.

- Most botany, aquatic, wildlife, and zoology electives require **BIO 1301 & BIO 1303 Biology of Animals and the lab** and/or **BIO 1501 & BIO 1503 Biology of Plants and the lab**. However, some electives (e.g., BIO 4301 & BIO 4302 Aquatic Entomology and the lab, BIO 4372 Applied Fisheries) have additional pre-requisites.
- **BIO 4651 & BIO 4653 Wildlife Management and the lab** require **BIO 1301 & BIO 1303 Biology of Animals and the lab**.
- **BIO 4661 & BIO 4663 Wildlife Management Investigational Techniques and the lab** require **BIO 1301 & BIO 1303 Biology of Animals and the lab**.
- **BIO 4704 Plant Systematics** requires **BIO 1501 & BIO 1503 Biology of Plants and the lab**.
- **BIO 3023 Principles of Ecology** requires **BIO 1301 & BIO 1303 Biology of Animals and the lab** **and** **BIO 1501 & BIO 1503 Biology of Plants and the lab**.

- **BIO 4374 Behavioral Ecology and the lab** require **BIO 3023 Principles of Ecology**.
- **BIO 4613 Conservation Biology** requires **BIO 3023 Principles of Ecology**.

- **GIS 3543 Fundamentals of GIS and GPS** requires **COMS 1203 Oral Communication**, **ENG 1013 Composition I**, **MATH 1023 College Algebra**, and **BIO 3203 Principles of Ecology**.

- **ENG 3063 Writing for STEM** requires **ENG 1003 Composition I** **and** **ENG 1013 Composition II**.

The following example does not account for the foreign language requirement. Two semesters of a foreign language are required unless taken in high school. This should be discussed with your advisor. If you need to take foreign language courses, choose the lightest semesters.

Note that some courses are offered every other year. The following example is based on a degree starting in the fall semester of an even year 1 (e.g., fall 2024).

Year 1 (even)				Year 1 (odd)			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 1013	Biology Making Connections	3		BIO 1503 + BIO 1501	Biology of Plants + Lab	3 + 1	
BIO 1303 + BIO 1301	Biology of Animals + Lab	3 + 1		CHEM 1013 + CHEM 1011	General Chemistry I + Lab	3 + 1	X
ENG 1003	Composition I	3	X	ENG 1013	Composition II	3	X
MATH 1054	Precalculus (if ACT Math \geq 24)	3-4	X	MATH 2194	Survey of Calculus	4	X
	OR				OR		
MATH 1023	College Algebra			MATH 2204	Calculus I		
LIR 1021	Introduction to Academic Research Biology OR an elective of 1-2 hour	1-2					
Total Hours		14-16		Total Hours		15	
Year 2 (odd)				Year 2 (even)			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 2013 + BIO 2011	Biology of the Cell + Lab	3 + 1	X	BIO 3023	Principles of Ecology	3	
ENG 3063	Writing for STEM	3		PSSC 2813 + PSSC 2811	Soils + Lab	4	
	OR			Choose one the following:		3-4	
ENG 3043	Technical Writing			BIO 4402 + BIO 4401	Ichthyology + Lab		
COMS 1203	Oral Communication	3	X		OR		
CHEM 1023 + CHEM 1021	General Chemistry II + Lab	3+1			Zoology elective #1		
	Social Science #1	3	X		Social Science #2	3	X
					Fine Arts	3	X
Total Hours		17		Total Hours		16-17	

Year 3 (even)				Year 3 (odd)			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 4653 + BIO 4651	Wildlife Management + Lab	3+1		BIO 4613	Conservation Biology	3	
Choose one of the following:		3-4			OR		
	Fisheries Biology + Lab			POSC 4533	Environmental Law and Administration		
	Botany elective			BIO 3013 + BIO 3011	Genetics + Lab	3 + 1	
BIO 4413	Wildlife Internship	3		BIO 4663 + BIO 4661	Wildlife Management Techniques + Lab	3 + 1	
BIO 3673	Human Dimensions in Wildlife	3		Choose one of the following:			3-4
	US History (to or since 1876) or American Government	3	X	BIO 4423 + BIO 4421	Ornithology + Lab		
					Zoology elective #1 or 2		
Total Hours		16-17		Total Hours		14-15	
Year 4 (odd)				Year 4 (even)			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 4374	Behavioral Ecology	4		BIO 4021	Biological Seminar	1	
Choose one of the following:		3-4		BIO 4704	Plant Systematics	4	
BIO 4354	Mammalogy			AGRI 3543	Fundamentals of GIS/GPS	3	
	Zoology elective #1 or #2			Choose two of the following:			7-8
	Botany elective			BIO 4454	Herpetology		
BIO 4043	Biometry	3		BIO 4423 + BIO 4421	Ornithology + Lab		
	OR				Zoology elective #2		
STAT 3233	Applied Stat I						
	Humanities	3	X				
Total Hours		13-14		Total Hours		15-16	
Total Jr/Sr Hours		59		Total Degree Hours		120	