

Degree Title
Arkansas State University - Jonesboro
Bachelor of Science
Major: Wildlife, Fisheries & Conservation—Fisheries 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** or an ACT composite ≥ 23 .
- **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**.
- **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**.
- **BIO 4083 Evolution** requires **BIO 1301 & BIO 1303 Biology of Animals**, **BIO 1503 & BIO 1501 Biology of Plants**, and **BIO 3011 & BIO 3013 Genetics**
- Most botany, aquatic, 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 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 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**.

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				Year 1			
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		
Total Hours		13-14		Total Hours		15	
Year 2				Year 2			
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	
COMS 1203	Oral Communication	3	X	BIO 3013 + BIO 3011	Genetics + Lab	3 + 1	
	Physical Science & Ag	4		BIO 4402 + BIO 4401	Ichthyology + Lab	2 + 1	
	Social Science #1	3	X		Social Science #2	3	X
					Fine Arts	3	X
Total Hours		14		Total Hours		16	

Year 3				Year 3					
Fall Semester				Spring Semester					
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed		
BIO 4312 + BIO 4311	Fisheries Bio. and Manag. + Lab	3			Choose one of the following:	3			
BIO 4463	Freshwater Mussels	3		BIO 4613	Conservation Biology				
BIO 4413	Internship	3		POSC 4533	Environmental Law and Administration				
BIO 3673	Human Dimensions in Wildlife	3		BIO 4483	Fisheries Techniques	3			
	Choose one of the following:	3	X		Physical Science	4			
HIST 2763	US History since 1876						Zoology elective	3-4	
HIST 2773	US History sn 1876						Botany elective	3-4	
POSC 2103	American Government								
Total Hours				15		Total Hours		16-18	
Year 4				Year 4					
Fall Semester				Spring Semester					
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed		
	Physical Science	3-4		BIO 4021	Biological Seminar	1			
BIO 4603 + BIO 4601	Limnology + Lab	3 + 1			Choose one of the following:	3-4			
	Choose one of the following:	3		BIO 3322 + BIO 3332	Invertebrate Zoology + Lab				
BIO 4043	Biometry				BIO 4333		Marine Biology		
STAT 3233	Applied Stat I				Additional elective	3-4			
	Humanities	3	X		Additional elective	3-4			
					Additional elective	3-4			
Total Hours		13-14		Total Hours		13-17			
Total Jr/Sr Hours		55		Total Degree Hours		120			