

# Arkansas State University - Jonesboro

## Bachelor of Science

### Major: Biological Sciences – Emphasis in Pre-Professional Studies

**2022-2023**

Students needing developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may require more than eight (8) semesters to complete this program of study. **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 45 hours of upper division credit (3000-4000 level) is required for this degree. Mandatory state and institutional assessment exams will be required during your degree program. **Failure to participate in required assessments may delay graduation.** 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.

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	Biology of Plants	3	
BIO 1303	Biology of Animals	3		BIO 1501	Biology of Plants Lab	1	
BIO 1301	Biology of Animals Lab	1		CHEM 1013	General Chemistry I	3	X
ENG 1003	Composition I	3	X	CHEM 1011	General Chemistry I Lab	1	X
MATH 1054	Precalculus	4	x	ENG 1013	Composition II	3	x
				MATH 2194	Survey of Calculus	4	
<b>Total Hours</b>		14		<b>Total Hours</b>		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	Biology of the Cell	3	X	BIO 3023	Principles of Ecology	3	
BIO 2011	Biology of the Cell Lab	1	X	CHEM 3103	Organic Chemistry I	3	
CHEM 1023	General Chemistry II	3		CHEM 3101	Organic Chemistry I Lab	1	
CHEM 1021	General Chemistry II Lab	1		PHYS 2064	General Physics II	4	
PHYS 2054	General Physics I	4			Social Science	3	x
	Social Science	3	x		Elective	3	
<b>Total Hours</b>		15		<b>Total Hours</b>		17	

Year 3				Year 3			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 3013	Genetics	3		BIO 4104	Microbiology	4	
BIO 3011	Genetics Lab	1		BIO 3233	Human Structure and Function II	3	
BIO 3223	Human Structure and Function I	3		BIO 3231	Human Structure and Function II Lab	1	
BIO 3221	Human Structure and Function I Lab	1		CHEM 4243	Biochemistry	3	
CHEM 3113	Organic Chemistry II	3			Humanities	3	x
CHEM 3111	Organic Chemistry II Lab	1					
	Fine Arts Elective	3	x				
<b>Total Hours</b>		15		<b>Total Hours</b>		14	
Year 4				Year 4			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 4083	Evolution	3		BIO 4021	Biological Seminar	1	
	Pre-Professional Elective	3			Pre-Professional Elective	3	
	US History (to or since 1876) or American Government	3	x		Pre-Professional Elective	3	
SCOM 1203	Oral Communication	3	x		Elective	3	
	Elective	3			Elective	3	
					Elective	2	
<b>Total Hours</b>		15		<b>Total Hours</b>		15	
<b>Total Jr/Sr Hours</b>		46		<b>Total Degree Hours</b>		120	