

Arkansas State University - Jonesboro
Bachelor of Science
Major: Biological Sciences – Environmental Biology Emphasis
2013-2014

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 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.**

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	
Total Hours		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	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		COMS 1203	Oral Communication	3	X
	Social Science	3	X	STAT 3233	Applied Statistics I	3	
Total Hours		15		Total Hours		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 4133	Cell Biology	3 OR 4	
BIO 3011	Genetics Lab	1		BIO 4131	Cell Biology Lab		
BIO 4704	Plant Systematics	4			OR		
	OR			CHEM 4243	Biochemistry		
BIO 3322	Invertebrate Zoology			PSSC 2813	Soils	3	
BIO 3332	Invertebrate Zoology Lab			PSSC 2811	Soils Laboratory	1	

	OR			POSC 4533	Environmental Law and Administration	3	
BIO 3303	General Entomology				Humanities	3	X
BIO 3301	General Entomology Lab				Elective	3	
CHEM 3113	Organic Chemistry II	3					
CHEM 3111	Organic Chemistry II Lab	1					
	Fine Arts	3	X				
Total Hours		15		Total Hours		16	
Year 4				Year 4			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 4613	Conservation Biology	3		BIO 4643	Environmental Biology	3	
BIO 4623	Environmental Microbiology	3		BIO 4641	Environmental Biology Lab	1	
BIO 4633	Environmental Toxicology: Mechanisms and Impacts	3		BIO 4021	Biological Seminar	1	
	US History (to or since 1876) or American Government	3	X		Upper Level Elective	3	
	Elective	3			Electives	5	
Total Hours		15		Total Hours		13	
Total Jr/Sr Hours	45-46			Total Degree Hours		120	