

**Arkansas State University - Jonesboro**  
**Bachelor of Science**

**Major: Biological Sciences – Emphasis in Pre-Professional Studies**  
**2012-2013**

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	
<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
<b>Year 4</b>				<b>Year 4</b>			
<b>Fall Semester</b>				<b>Spring Semester</b>			
<b>Course No.</b>	<b>Course Name</b>	<b>Hrs</b>	<b>Gen Ed</b>		<b>Course No.</b>	<b>Course Name</b>	<b>Hrs</b> <b>Gen Ed</b>
	Upper-Level Biology Elective	3			BIO 4021	Biological Seminar	1
	Upper-Level Biology Elective	3				Upper-Level Biology Elective	3
	US History (to or since 1876) or American Government	3	x			Upper-Level Elective	3
SCOM 1203	Oral Communication	3	x			Upper-Level 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