

Biology
Arkansas State University - Jonesboro
Degree: Bachelor of Science
Major: Biology – Pre-professional Studies
2011-2012

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 1103	Biology of Plants	3		CHEM 1013	Chemistry I	3	x
BIO 1101	Biology of Plants Lab	1		CHEM 1011	Chemistry I Lab	1	x
BIO 1913	Making Connections In Biology	3		MATH 1054	Precalculus	4	
ENG 1003	Composition I	3	x	ENG 1013	Composition II	3	x
MATH 1023	College Algebra	3	x	BIO 1043	Biology of Animals	3	
PE 1002	Concepts of Fitness	2	x	BIO 1041	Biology of Animals Lab	1	
				HIST 2763 or 2773 or POSC 2103	US to 1876 or US since 1876 or Intro to US Government	3	x
Total Hours		15		Total Hours		18	
Year 2				Year 2			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
CHEM 1023	Chemistry II	3		ENG 2003 or ENG 2013 or PHIL 1103	Intro to Lit I or Intro to Lit II or Intro to Philosophy (if not taken for critical thinking requirement)	3	x
CHEM 1021	Chemistry II Lab	1		BIO 3023	Principles of Ecology	3	
MATH 2054	Survey of Calculus	4					
PHIL 1103 or PHIL 1503 or SCOM 1203	Intro to Philosophy or Logic & Practical Reasoning or Oral Communications	3	x	BIO 3013	Genetics	3	
BIO 1013	Biology of the Cell	3	x	BIO 3011	Genetics Lab	1	
BIO 1021	Biology of the Cell lab	1	x	PHYS 2054	Physics I	4	
Language	Foreign Language	3		Language	Foreign Language	3	
Total Hours		18		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

Art 2503 or Mus 2503 or Thea 2503	Fine Arts Visual or Musical or Theatre	3	x	HIST 2763 or 2773 or ECON 2313 or 2333 or POSC 1003 or 2103 or PSY 2013 or SOC 2013	US to 1876 or US since 1876 or Principles of Macroeconomics or Economic Issues and concepts or Intro to Politics or Intro to US Government or Intro to Psychology or Intro to Sociology (select course not previously taken)	3	x
PHYS 2064	Physics II	4		BIO 4104	Microbiology	4	
CHEM 3103	Organic Chemistry I	3		CHEM 3113	Organic Chemistry II	3	
CHEM 3101	Organic Chemistry I Lab	1		CHEM 3111	Organic Chemistry II Lab	1	
BIO 4133	Cell Biology	3		BIO 3302	Comparative Anatomy	2	
BIO 4131	Cell Biology Lab	1		BIO 3312	Comparative Anatomy Lab	2	
Pre-professional Elective	See Bulletin	3		ANTH 2233 or HIST 1013 or 1023 or GEOG 2613	Intro to Cultural Anthropology or World Civilization to 1660 or World Civ since 1660 or Intro to Geography	3	x
Total Hours		18		Total Hours		18	

Year 4				Year 4			
Fall Semester				Spring Semester			

Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
HIST 2763 or 2773 or ECON 2313 or 2333 or POSC 1003 or 2103 or PSY 2013 or SOC 2013	US to 1876 or US since 1876 or Principles of Macroeconomics or Economic Issues and concepts or Intro to Politics or Intro to US Government or Intro to Psychology or Intro to Sociology (select course not previously taken)	3	X	Pre-professional Elective	See Bulletin	3	
ART or MUS or THEA 2503 or ENG 2003 or 2013 or PHIL 1103	Fine Arts Visual or Musical or Theatre or Intro to Literature I or Intro to Literature II or Intro to Philosophy (select course not previously taken)	3		BIO 4021	Biological Seminar	1	
BIO 3323	Animal Physiology	3		Biological Sciences Elective	Elective	3	
BIO 3321	Animal Physiology Lab	1		Biological Sciences Elective	Elective	3	
Pre-professional Elective	See Bulletin	3		Biological Sciences Elective	Elective	3	
Pre-professional Elective	See Bulletin	3					
Total Hours		16		Total Hours		14	

Total Jr/Sr Hours	46	Total Degree Hours	130
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