

Degree Title
Arkansas State University - Jonesboro
Bachelor of Science
Major: Biotechnology

2021-2022

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 2013	Biology of the Cell	3	
BIO 1303 or 1503	Biology of Animals or Biology of Plants	3	X	BIO 2011	Biology of Cell Lab	1	
BIO 1301 or 1501	Biology of Animals or Biology of Plants Lab	1	X	CHEM 1023	General Chemistry II	3	X
ENG 1003	Composition I	3	X	CHEM 1021	General Chemistry II Lab	1	X
CHEM 1013	Chemistry I	4	X	ENG 1013	Composition II	3	X
CHEM 1011	Chemistry I Lab	1	X	MATH 2194	Survey of Calculus	4	X
Total Hours		15		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 2042	Biotechnology in a Global Society	1		BIO 3013	Genetics	3	
BIO 4063	Biosafety and Ethics in Research	3		BIO 3011	Lab for Genetics	1	
CHEM 3103	Organic Chemistry I	3		CHEM 3113	Organic Chemistry II	3	
CHEM 1021	Organic Chemistry I Lab	1		CHEM 3111	Organic Chemistry II Lab	1	
PHYS 2054	General Physics I	4		PHYS 2064	General Physics II	4	X
	Social Science	3	X		Social Science	3	
Total Hours		15		Total Hours		15	

Year 3				Year 3			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 4104	Microbiology	4		BIO 4152	Laboratory in Biotechniques I	2	
BIO 4164	Molecular Biology	4		BIO 4053	Genetic Engineering	3	
CHEM 4243	Biochemistry	3		BIO	Bioinformatics and Applications	3	
STAT 3233	Applied Statistics I	3		BIO 4133	Cell Biology	3	
SCOM 1203	Oral Communication	3		BIO 4133	Cell Biology Lab	1	
					Humanities	3	X
Total Hours		17		Total Hours		15	
Year 4				Year 4			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIO 4154	Laboratory in Biotechniques	4		BIO 4073	Entrepreneurship in Biotechnology	3	
	Upper-Level Biology Elective	3		BIO 403V	Special Problems in Biology	3	
SCOM 1203	Oral Communication	3	x		Upper-Level Biology Elective	3	
	US History (to or since 1876) or American Government	3	x		Fine Arts Elective	3	
	Elective	3					
Total Hours		16		Total Hours		12	
Total Jr/Sr Hours		55		Total Degree Hours		120	