



**KENTUCKY STATE
UNIVERSITY**

BIOLOGY EDUCATION - BACHELOR OF SCIENCE

Program Description

The Biology Education programs offers graduates the qualifications to educate students on the secondary level, grades 8-12.

Program Standards

2020 NSTA (National Science Teaching Association)/ASTE (Association for Science Teacher Education) Standards for Science Teacher Preparation

Standard 1: Content Knowledge

Standard 2: Content Pedagogy

Standard 3: Learning Environments

Standard 4: Safety

Standard 5: Impact on Student Learning

Standard 6: Professional Knowledge and Skills

Course	Title	Hours
Year 1		
Term 1 (Fall)		
BIO 111	Principles of Biology	4
MAT 120	Precalculus	4
CHE 101	General Chemistry I	3
CHE 110	General Chem I Laboratory	1
ENG 101	English Comp I	3
FYE 118	First Year Experience	3
Hours		18
Term 2 (Spring)		
CHE 102	General Chemistry II	3
CHE 120	General Chemistry II Lab	1
BIO 210	General Zoology	3
ENG 102	English Comp II	3
EDU 204	Cultural Responsiveness	3
COM 103	Interpersonal Communication	3
Hours		16
Year 2		
Term 3 (Fall)		
BIO 212	General Botany	3
EDU 202	Found of Teaching and Educ	3
EDU 203	Intro to Tech. in Education	3
PHY 207	Physics In Biological Sci I	4
Select one of the following:		3
FIN 101	Financial Literacy	
ECO 201	Prin of Economics I	
PSY 200	General Psychology	

SOC 203	Principles of Sociology	
Hours		16
Term 4 (Spring)		
BIO 302	General Microbiology	4
EDU 302	Child & Adolescent Dev	3
EDU 304	Classroom & Learning Manage	3
PHY 208	Physics In Biological Sci II	4
Select one of the following:		3
PSY 200	General Psychology	
SOC 203	Principles of Sociology	
ECO 201	Prin of Economics I	
FIN 101	Financial Literacy	
Hours		17
Year 3		
Term 5 (Fall)		
BIO 316	Ecology	4
BIO 307	Genetics	4
EDU 303	Educational Assessment/Eval	3
EDU 310	Intro Exceptional Edu	3
Select one of the following:		3
ART 130	Introduction to Art	
MUS 130	Introduction to Music	
THE 130	Introduction to Theatre	
ENG 211	Intro to Literature	
Hours		17
Term 6 (Spring)		
BIO 303	Human Physiology	4
BIO 408	Cell Biology	4
BIO 410	Special Problems Biology	2
EDU 450	Clinical Education Experience	6
Hours		16
Year 4		
Term 7 (Fall)		
BIO 401	Biology Seminar	1
EDU 413	Teaching High Sch Science	3
EDU 445	Teach HS Reading in Cont Area	3
BIO 300/400 elective		3-4
Select one General Educational Global/Civic Course		3
AFE 117	Global Perspect Ag/Food/Env	
ASP 303	American Civil Rights Movement	
POS 101	American Government	
POS 361	World Politics	
Hours		13-14
Term 8 (Spring)		
EDU 454	Undergraduate Student Teaching	12
Hours		12
Total Hours		125-126