

BIOLOGY, BACHELOR OF SCIENCE WITH A CONCENTRATION IN BIODIVERSITY AND CONSERVATION (B.S.)

Program Requirements

CIP Code: 26.0101

Summary Checklist for General Education

Code	Title	Hours
Element 1		
A:	Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/)	3
B:	Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/)	3
C:	Oral Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/)	3
Element 2		
	Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/)	3
Element 3		
A:	Arts (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/)	3
B:	Humanities (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/)	3
Element 4		
	Natural Sciences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/)	6
Element 5		
A:	Historical Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/)	3
B:	Social Behavioral Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/)	3
Element 6		
	Diversity of Perspectives Experiences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/)	6
Total Hours		36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

Major

Code	Title	Hours
University Graduation Requirements		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
Major Requirements		
<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 495	Evolutionary Application and Theory	1
Concentrations		
Students must select at least one of the following Concentrations:		
Courses used for one concentration may not count toward another concentration.		
Aquatic Biology		
Biodiversity and Conservation		36-37
General Biology		
Biology Teaching		
<i>Free Electives</i>		
Choose from 17-18 hours of free electives		17-18
Total Hours		120
Concentration		
Code	Title	Hours
Concentration Courses		
BIO 514	Evolution	3
BIO 532	Conservation Biology	3
Choose from six hours of the following:		6
BIO 335	Plant Systematics	
BIO 342	Comparative Vertebrate Anatomy	
BIO 525	Aquatic and Wetland Plants	
BIO 528	Virology	
BIO 536	Dendrology	
BIO 542	Freshwater Invertebrates	
BIO 548	Insect Diversity	
BIO 553	Mammalogy	
BIO 554	Ornithology	
BIO 556	Herpetology	
BIO 557	Ichthyology	
BIO 595	Topics in Field Biology:___	
Choose from three hours of the following:		3
BIO 349	Applied Learning in Biology	
BIO 520	Invasive Species Management	
BIO 521	Plant Ecology	

BIO 550	Animal Behavior	
BIO 555	Behavioral Ecology	
BIO 558	Freshwater Ecology	
BIO 561	Fisheries Biology	
BIO 598	Special Problems	
<i>Supporting Course Requirements</i>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) ^G	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
MAT 234 or MAT 211	Calculus I (Element 2) ^G Applied Calculus	
PHY 131 or PHY 201	College Physics I (Element 4) ^G University Physics I	
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4
CSC 174 or GEO 353	Introduction to Programming for Science & Engineering Geographic Information Systems	3
AGR 215 & AGR 216	Principles of Soils and Principles of Soils Laboratory	4
Choose from one of the following:		3
GEO 302W		
GEO 325	Environment Land Use Planning	
GEO 435		
GLY 303	Environmental Geoscience	
GLY 315	Hydrology	
Total Hours		36-37

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.