BIOLOGY, BACHELOR OF SCIENCE WITH A CONCENTRATION IN AQUATIC BIOLOGY (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
Student Success Seminar		
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		
Core Courses		
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		26-27
Biodiversity and Conservation		
General Biology		
Biology Teaching		
Free Electives		
Choose from 27-28 hours of free electives		27-28
Total Hours		**120**

Concentration

Code	Title	Hours
Concentration Courses		
BIO 525	Aquatic and Wetland Plants	3
BIO 542	Freshwater Invertebrates	3
BIO 557	Ichthyology	3
BIO 558	Freshwater Ecology	3
Choose from one of the following:		3
BIO 556	Herpetology	
BIO 561	Fisheries Biology	
GLY 315	Hydrology	
Supporting Course Requirements		
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	Calculus I (Element 2) [G]	
or MAT 211	Applied Calculus	
PHY 131	College Physics I (Element 4) [G]	
or PHY 201	University Physics I	
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
Total Hours		**26-27**

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