

UNIVERSITY OF PIKEVILLE

BIOLOGY

(B. A. or B. S.) MAJOR

NAME	ID#
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COLLEGE OF ARTS & SCIENCES
DIVISION OF MATHEMATICS & NATURAL SCIENCES

MAJOR: BIOLOGY – 33 - 34 Total Hours Required

[At least 50% of the semester hours required for the major must be taken at the University of Pikeville.]

(62 - 65 Hours including Related Studies)

Biology Requirements

(12 - 13 Hours Required)

Course	Title	Credit	Grade	Term Taken
BIO 151	Principles of Biology I	4		
BIO 152	Principles of Biology II	4		
BIO 319 or BIO 320	Genetics Genetics	3 4		
BIO 480	Seminar in Biology	1		

Biology Electives

(21 Hours Required)

Take a minimum of 21 hours of BIO electives at the 300/400 level, including at least one course from each of the four areas of study listed below. Biology courses 300 level or above not listed do count as electives, but do not count as fulfilling one of these area requirements unless specifically approved by the Biology Department. Two of the electives must have a laboratory/field (L) component associated with the course.

Biology program areas of study:

Ecology

Course	Title	Credit	Grade	Term Taken
*BIO 303	Evolution	3		
*BIO 325	Ecology (L)	4		
BIO 375	Animal Behavior	3		
BIO 412	Field Biology (L)	4		

Organismal

Course	Title	Credit	Grade	Term Taken
BIO 300	Entomology (L)	4		
*BIO 313	Botany (L)	4		
BIO 314	Zoology (L)	4		
BIO 402	General Parasitology (L)	4		

Cell and Molecular Biology

Course	Title	Credit	Grade	Term Taken
*BIO 350	Microbiology (L)	4		
BIO 400	Molecular Biology of the Cell	3		
BIO 430	Immunology	3		
BIO 440	Histology (L)	4		

Physiology and Developmental Biology

Course	Title	Credit	Grade	Term Taken
BIO 330	Comparative Anatomy of Vertebrates (L)	4		
BIO 405	Embryology (L)	4		
BIO 420	General Physiology (L)	4		
BIO 441	Neurobiology	3		

Additional Biology 300 or 400 Level Electives

Course	Title	Credit	Grade	Term Taken
BIO				
BIO				

Related Studies Requirements

(30 - 31 Hours Required)

Course	Title	Credit	Grade	Term Taken
CHE 113	General Chemistry I	3		
CHE 114	General Chemistry II	3		
CHE 115	General Chemistry I Laboratory	1		
CHE 116	General Chemistry II Laboratory	1		
CHE 313	Organic Chemistry I	4		
CHE 314	Organic Chemistry II	4		
CHE 315	Organic Chemistry I Laboratory	1		
CHE 316	Organic Chemistry II Laboratory	1		
MTH 113	Precalculus Algebra	3		
MTH 114	Trigonometry	2		
or	or			
MTH 121	Calculus I	4		
PHY 223	General Physics I	4		
PHY 224	General Physics II	4		

Notes:

1. The (L) indicates a laboratory/field component included.
2. The * indicates that in addition to BIO 319 or BIO 320 the indicated courses are appropriate for students in the second year of their program.