

Lock Haven University
Biological Sciences
Bachelor of Science
Biology: Ecology and Environmental Biology

Effective Fall 2020

Intellectual Foundation	9 sh
Written Communication	(3 sh)
ENGL100: Composition	3
WC Competency 1	
WC Competency 2	
Oral Communication	(3 sh)
	3
Mathematical and Computational Thinking	(3 sh)
MATH141: Calculus I	3
Critical Thinking	
CT Competency 1	
CT Competency 2	

Knowledge and Inquiry	21 sh
Natural Science Inquiry	(6 sh)
BIOL106: Principles of Biology I	3
BIOL107: Principles of Biology II	3
Historical, Behavioral, and Social Science Inquiry	(6 sh)
	3
	3
Philosophical, Literary, and Aesthetic Inquiry	(9 sh)
(at least one from Visual or Performing Arts)	3
(at least one from Philosophy or Literature)	3
	3

Personal and Social Responsibility	12 sh
Global Awareness and Citizenship	(9 sh)
(at least one GAC-Historical Foundation)	3
	3
	3
Wellness	(3 sh)
	3
Experiential Learning	
EL Competency 1	
EL Competency 2	

Electives	17 sh

First Year Student Seminar	1 sh
SCI119: First Year Seminar	1

Major Area and Cognate Courses	60 sh
Cognate Courses	(23 sh)
CHEM120: Principles of Chemistry I#	4
CHEM121: Principles of Chemistry II#	4
CHEM205: Intro to Organic Chemistry#	4
GEOS130: Principles of Geology I	3
PHYS130: Physics I#	4
PHYS131: Physics II#	4

Biology Requirements	(37 sh)
Required Biology Courses	[12 sh]
BIOL202: Genetics#	3
BIOL206: Botany#	3
BIOL240: Zoology#	3
BIOL309: Ecology#	3

Field Course Requirements	[9 sh]
At least 9 credits must be taken that are designated as field courses. Field courses are listed below.	
BIOL305: Ichthyology#	3
BIOL317: Mycology#	3
BIOL405: Field Ecology#	3
BIOL409: Ornithology#	3
BIOL411: Aquatic Biology#	3
BIOL413: Entomology#	3
BIOL430: Herpetology#	3
BIOL432: Ecosystems#	3
BIOL440: Environmental Microbiology# (BIOL340 prereq)	3
Chincoteague Bay Field Station BIOL Field Courses#	

Biology Electives	[16 sh]
Take 16 credits of 200-400 level# courses in Biology.* This category can also include field courses not taken in the category above.	

Advanced coursework
 *Except BIOL215, BIOL225, and BIOL328.
 *A maximum of 3 credits of BIOL369 count in this category.
 *A maximum of 3 credits of BIOL499 count in this category.

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Suggested Course Sequence

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
SCII19 First Year Seminar	1	BIOL107 Principles of Biology II	3
BIOL106 Principles of Biology I	3	CHEM121 Principles of Chemistry II	4
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	General Education	3
General Education- MATH xxx (depends on Math Placement test)	3	General Education	3
General Education	3	General Education	3
	—		—
	14		16
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany	3	BIOL202 Genetics	3
CHEM205 Intro. to Organic Chemistry	4	PHYS131 Physics II	4
PHYS130 Physics I (MATH 113 Prerequisite)	4	General Education	3
General Education	3	General Education	3
	—	General Education	3
	14		16
Fall Junior Year		Spring Junior Year	
BIOL309 Ecology	3	BIOL240 Zoology	3
BIOLxxx Biology course	3	BIOLxxx Biology course	3
GEOS130 Principles of Geology	3	BIOLxxx Biology course	3
General Education	3	General Education	3
Electives	3	Electives	3
	—		—
	15		15
Fall Senior Year		Spring Senior Year	
BIOLxxx Biology course	3	BIOLxxx Biology course	3
BIOLxxx Biology course	3	BIOLxxx Biology course	3
Elective	3	BIOLxxx Biology course	3
Elective	3	BIOLxxx Biology course	1
Elective	3	General Education	3
	—	Elective	2
	15		15