

Lock Haven University
Biological Sciences
Bachelor of Science
Biology: Biomedical Sciences

Effective Fall 2020

Intellectual Foundation	9 sh
Written Communication	(3 sh)
ENGL100: Composition	3
WC Competency 1 (BIOL107)	
WC Competency 2 (CHEM410)	
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)
SOCI101: recommended	3
PSYC100: recommended	3
Philosophical, Literary, and Aesthetic Inquiry	(9 sh)
(at least one from Visual or Performing Arts)	3
PHIL102: recommended	3
ENGL110: recommended	3

Personal and Social Responsibility	12 sh
Global Awareness and Citizenship	(9 sh)
(at least one GAC-Historical Foundation)	3
PHIL415: recommended	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	(36 sh)
CHEM120: Principles of Chemistry I#	4
CHEM121: Principles of Chemistry II#	4
CHEM220: Organic Chemistry I#	4
CHEM221: Organic Chemistry II#	4
CHEM410: Biochemistry I#	4
PHYS130: Physics I#	4
PHYS131: Physics II#	4
HLTH115: Human Anatomy & Physiology I	4
HLTH120: Human Anatomy & Physiology II	4

Biology Requirements	(24 sh)
Required Biology Courses	[14 sh]
BIOL202: Genetics#	3
BIOL310: Immunology#	3
BIOL330: Cell & Molecular Biology#	4
BIOL340: Microbiology#	4
Biology Electives	[10 sh]
Take 10 credits of 200-400 level# BIOL courses*	

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.

Lock Haven University
Biological Sciences Department
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BIOLOGY: BIOMEDICAL SCIENCES
Suggested Course Sequence

Fall Freshman Year		Spring Freshman Year	
SCI119 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- MATHxxx (depends on Math Placement test)	3	General Education	3
General Education	3	General Education	3
	–		–
	14		16
Fall Sophomore Year		Spring Sophomore Year	
CHEM220 Organic Chemistry I	4	BIOL310 Immunology	3
HLTH115 Human Anatomy & Physiology I	4	CHEM221 Organic Chemistry II	4
BIOL202 Genetics	3	HLTH120 Human Anatomy & Physiology II	4
General Education	3	General Education	3
General Education	3		–
	–		–
	17		14
Fall Junior Year		Spring Junior Year	
BIOL330 Cell & Molecular Biology	4	BIOLxxx Biology course	3
BIOLxxx Biology course	3	CHEM410 Biochemistry	4
PHYS130 Physics I (MATH 113 Prerequisite)	4	PHYS131 Physics II	4
General Education	3	General Education	3
	–	General Education	3
	–		–
	14		17
Fall Senior Year		Spring Senior Year	
BIOL340 Microbiology	4	BIOLxxx Biology course	3
BIOLxxx Biology course	1	General Education	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	2
	–		–
	14		14