

Lock Haven University
Bachelor of Science
Chemistry – Biochemistry Track

Effective Fall 2016

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

Knowledge and Inquiry	21 sh
Natural Sciences Inquiry	6 sh
BIOL106: Principles of Biology I	3
BIOL107: Principles of Biology II	3
Historical, Behavioral, and Social Sciences Inquiry	6 sh
PSYC100 recommended	3
SOCI101 recommended	3
Philosophical, Literary, and Aesthetic Inquiry	9 sh
PHIL102 recommended	3

Personal and Social Responsibility	12 sh
Global Awareness and Citizenship	9 sh
Wellness	3 sh
Experiential Learning	
EL Competency 1	

Electives	17 sh

First Year Student Seminar	1 sh
SCII19: Freshmen Seminar	1

Major Area and Cognate Courses	60 sh
Cognates	14 sh
PHYS130: Physics 1 OR	4
PHYS170: Intermediate General Physics 1	
#PHYS131: Physics 2 OR	4
#PHYS171 Intermediate General Physics 2	
#MATH142: Calculus II	3
BIOL202: Genetics	3
Area requirements	
Chemistry requirements	36 sh
CHEM120: Principles of Chemistry I	4
CHEM121: Principles of Chemistry II	4
#CHEM220: Organic Chemistry I	4
#CHEM221: Organic Chemistry II	4
#CHEM316: Quantitative Analysis	4
#CHEM317: Instrumental Analysis	4
#CHEM320: Physical Chemistry I	4
#CHEM410: Biochemistry I	4
#CHEM415: Biochemistry II	4
Chemistry electives	7 sh
#Choose from 300-400 level courses in Chemistry*	
* Except CHEM328 and CHEM369	
Biology electives	3 sh
#Choose one of the following	
BIOL302: Developmental Biology	3
BIOL310: Immunology	3
BIOL330: Cell and Molecular Biology	4
BIOL340: Microbiology	4
BIOL410: Organismal Physiology	3
# 45-46 sh of upper division courses	