

Lock Haven University
Biological Sciences Department
Bachelor of Science in Education (BSED) 126 Credits
Secondary Education - Biology
 For Students entering LHU Fall 2014

General Education Credit Total		42
Intellectual Foundation	Min Grade	9 sh
Written Communication		3 sh
ENG100: Composition (3 sh)	C-	
WC Competency 1		
WC Competency 2		
Oral Communication	C	3 sh
Math. and Comp. Thinking		3 sh.
MATH141: Calculus I (3)	C	
Critical Thinking		
CT Competency 1		
CT Competency 2		

Knowledge and Inquiry		21 sh
Natural Science Inquiry	C	6 sh
BIOL106: Principles of Biology I (3)		
BIOL107 Principles of Biology II (3)		
Historical, Beh., and Social Science Inq.		6 sh
PSYC103: Adolescent Development (3)	C	
Phil., Literary, and Aesthetic Inquiry		9 sh
ENGL110: Introduction to Literature (3)	C-	
Note: required for the major		
Personal and Social Responsibility		12 sh
Global Awareness and Citizenship		9 sh
SPEC202: Cultural and Linguistic Diversity (3)	C	
Wellness		3 sh
Experiential Learning		
EL Competency 1		
EL Competency 2		

Major Coursework Credit Total		84
First Year Student Seminar	Min Grade	
SCI119: First Year Seminar	CR	1

Major Area and Cognate Courses Total		Min Grade	
Required Biology Content Coursework			51
#BIOL202: Genetics (3)	C		
#BIOL206: Botany (3)	C		
#BIOL240: Zoology (3)	C		
#BIOL309: Ecology (3)	C		
#BIOL330: Cell & Molecular Biology (4)	C		
#BIOL330: Microbiology (4)	C		
#BIOL410: Organismal Physiology (3)	C		
#BIOL3--/4—Biology elective (2-3)	C		
CHEM221/PHYS131/BIOL3--/4—(3-4)*	C		
CHEM120: Principles of Chemistry I (4)	C		
CHEM121: Principles of Chemistry II (4)	C		
CHEM220: Organic Chemistry I (4)	C		
PHYS130: Physics I (4)*	C		
* Students are encouraged to also take PHYS131 Physics II in case they choose to pursue an additional Biology degree.			
GEOS Elective (3)	C		
MATH107: Statistics (3)			
Professional Education Coursework			12
Block I			
SCI209: Science Methods I (3)	C		
PSYC201: Educational Psychology (3)	C		
Block II			
#SCI315: Science Methods II (4)	C		
EDUC212: Classroom Management (2)			
Special Education Coursework			9
SPEC204: Cognitive Develop. of Diverse Learners (3)	C		
#SPEC309: Effect. Inst. Strat. for Stud. with Dis. (3)	C		
#SPEC345: Literacy Skills for Students with Dis. (3)	C		
Student Teaching			12
#SCI493: Science ST and Practicum I (6)	C		
#SCI494: Science ST and Practicum II (6)	C		
# = Advanced Course Work			

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Suggested Course Sequence

Fall First Year	SH	Spring First Year	SH
SCI119 Freshman 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	4	PSYC103 Adolescent Development	3
ENGL100 Composition	3	MATH141 Calculus	3
1 general education course	3	Introduction to Literature	3
1 general education course	3		16
	17		
Fall Second Year		Spring Second Year	
BIOL206 Botany I	3	BIOL240 Zoology	3
CHEM220 Organic Chemistry I	4	BIOL202 Genetics	3
MATH107 Statistics	3	1 General Education Course	3
SPEC204 Cognitive. Development. of Div. Learners	3	BLOCK I	
1 General Education Course	3	SCI209 Science Methods I	3
	-	PSYC201 Educational Psychology	3
	16		-
			15
Fall Third Year		Spring Third Year	
BIOL309 Ecology	3	BIOL410 Organismal Physiology	3
BIOL330 Cell & Molecular Biology	4	BIOL3--- Biology Elective	2
BIOL3--- Biology Elective	3	GEOS--- Earth & Space science elective	3
1 General Education Course	3	1 General Education Course	3
SPE 202 Cultural/Linguistics Div. in Ed.	3	1 General Education Course	3
	-	SPEC345 Literacy Skills for Students w/Disabilities	3
	16		-
			17
Fall Fourth Year		Spring Fourth Year	
BIOL340 Microbiology	4	SCI493 Student Teaching & Practicum I	6
PHYS130 Physics I	4	SCI494 Student Teaching & Practicum II	6
SPEC309 Effect. Instruct. Strat. Stud w/ Disabilities	3		-
SECONDARY BLOCK II			12
SCI315 Science Methods II	4		
EDUC212 Classroom Management	2		
	17		