

Lock Haven University
Geology & Physics Department
Bachelor of Science in Education (BSED) 127 Credits
Secondary Education - Earth and Space Science
 For Students entering LHU Fall 2014

General Education Credit Total		42
Intellectual Foundation	Min Grade	9 sh
Written Communication		3 sh
ENGL100: Composition (3 s.h.)	C-	
WC Competency 1		
WC Competency 2		
Oral Communication	C	3 sh
Math. and Comp. Thinking		3 sh.
MATH141: Calculus I (3 s.h.)	C	
Note: required for the major		
Critical Thinking		
CT Competency 1		
CT Competency 2		

Knowledge and Inquiry		21 sh
Natural Science Inquiry	C	6 sh
GEOS130 Principles of Geology I (3 s.h.)	C	
GEOS131 Principles of Geology II (3 s.h.)	C	
Note: both courses required for the major		
Historical, Beh., and Social Science Inq.		6 sh
PSYC103: Adolescent Develop. (3 s.h.)	C	
Note: required for the major		
Phil., Literary, and Aesthetic Inquiry		9 sh
ENGL110: Intro. to Literature (3 s.h.)		
Note: required for the major	C -	

Personal and Social Responsibility		12 sh
Global Awareness and Citizenship		9 sh
SPEC202: Cultural and Linguistic Diversity (3 s.h.)	C	
Wellness		3 sh
Experiential Learning		
EL Competency 1		
EL Competency 2		

Major Coursework Credit Total		86
First Year Student Seminar	Min Grade	
SCI119: First Year Seminar	CR	1

Major Area and Cognate Courses	Min Grade	
Required Earth and Space Science Coursework		52
CHEM120: Principles of Chemistry I (4 s.h.)	C	
CHEM121: Principles of Chemistry II (4 s.h.)	C	
BIOL106: Principles of Biology I (3 s.h.)	C	
*BIOL107: Principles of Biology II (this course is required if certification in general science is also being pursued, strongly recommended) (3 s.h.)	C	
PHYS130: Physics I (4 s.h.)	C	
PHYS131: Physics II (4 s.h.)	C	
PHYS135: Meteorology (3 s.h.)	C	
PHYS140: Astronomy of the Solar System (3 s.h.)	C	
GEOS120: Oceanography (3 s.h.)	C	
#GEOS215: Environmental Geology (3 s.h.)	C	
#GEOS230: Geomorphology (3 s.h.)	C	
#3 s.h. GEOS260: Geology Field Trip required	C	
#11 credits of Geoscience Courses (300+ level)	C	
MATH113: Elem. Funct. or MATH107: Stats. (3 s.h.)		
Professional Education Coursework		12
Block I		
SCI209: Science Methods I (3 s.h.)	C	
PSYC201: Educational Psychology (3 s.h.)	C	
Block II		
#SCI115: Science Methods II (4 s.h.)	C	
EDUC212: Classroom Management (2 s.h.)		
Special Education Coursework		9
SPEC204: Cog. Develop. of Diverse Learners (3 s.h.)	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	C	
#SCI494: Science ST and Practicum II	C	
# = Advanced Course Work		

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Suggested Course Sequence

Fall First Year	SH	Spring First Year	SH
SCI119 Freshman Seminar	1	GEOS131 Principles of Geology II	3
GEOS130 Principles of Geology I	3	CHEM121 Principles of Chemistry II	4
CHEM120 Principles of Chemistry I	4	PSYC103 Adolescent Development	3
ENGL100 Composition	3	MATH141 Calculus	3
MATH113 Elementary Functions	3	ENGL110 Introduction to Literature	3
1 General Education Course	3		-
	-		16
	17		
Fall Second Year		Spring Second Year	
GEOS215 Environmental Geology (even years)	3	PHYS131 Physics II	4
GEOS230 Geomorphology (odd years)	3	GEOS260 Geology Field Trip	1
PHYS130 Physics I	4	1 General Education Course	3
BIOL106 Principles of Biology I	3	1 General Education Course	3
SPEC204 Cognitive Develop. of Diverse Learners	3	BLOCK I	3
GEOS260 Geology Field trip	1	SCI209 Science Methods I	3
	-	PSYC201 Educational Psychology	-
	-		17
	17		
Fall Third Year		Spring Third Year	
GEOS300+ Elective	3	GEOS120 Oceanography	3
PHYS140 Astronomy	3	GEOS Geology Field Trip	1
SPEC202 Cultural and Linguistic Diversity	3	SPEC345 Literacy Skills for Students with Disabilities	3
1 General Education Course	3	GEOS300+ Elective	4
1 General Education Course	3	GEOS300+ Elective	4
	-	1 General Education Course	3
	-		-
	15		18
Fall Fourth Year		Spring Fourth Year	
PHYS135 Meteorology	3	SCI493 Student Teaching & Practicum I	6
1 General Education Course	3	SCI494 Student Teaching & Practicum II	6
SPEC309 Effect. Instruct. Strat. for Stud. With Dis.	3		-
BLOCK II			12
SCI315 Science Methods II	4		
EDUC212 Classroom Management	2		
	-		
	15		

*BIOL107 Principles of Biology II (this course is required if certification in general science is also being pursued, strongly recommended)