

**I. CORE CURRICULUM.....44**  
Geology 1101 and either 1102 OR 1103; Biology 1101, 1102; Chemistry 1101 and 1110, 1102 and 1120 or Physics 1103, 1104 will count toward science requirement. Math 1110 will count toward math requirement.

**II. PROFESSIONAL EDUCATION REQUIREMENTS .....24**

**A 2.00 IS REQUIRED IN ALL PROFESSIONAL EDUCATION COURSES.**

CI/SPE 2800	_____ (3)	Teachers, Schools, and Learners (W, C)	<b>PROFICIENCIES:</b>
CI/FDN/RE 3850	_____ (3)	Literacy, Technology and Instruction (C)	Reading _____
FDN 3800	_____ (3)	Foundations of American Education (CD)	English _____
PSY 3000	_____ (3)	Educational Psychology (MC, CD)	Speech _____
CI 4900	_____ (12)	Student Teaching	

*NOTE: To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT). Note, however, that the Area Exam is required for licensure. Only CI/SPE 2800 and PSY 3000 may be taken prior to formal admission into the Teacher Education Program.*

**III. MAJOR REQUIREMENTS.....62**

**2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under III. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian. Since many upper level Geology courses require GLY 1101 and GLY 1102 as prerequisites, it is highly recommended that students complete these courses during their freshman year.**

**A. Geology Courses (26 hours)**

GLY 1101	_____ (4)	Introduction to Physical Geology (ND)
<u>or</u> GLY 1510	_____ (4)	Geological Science Honors-Physical (W, ND)
GLY 1102	_____ (4)	Introduction to Historical Geology (CD, ND)
<u>or</u> GLY 1511	_____ (4)	Geological Science Honors-Historical (W, ND)
GLY 1103	_____ (4)	Introduction to Environmental and Applied Geology (ND)
GLY 2215	_____ (4)	Earth Materials
GLY 3333	_____ (3)	Geomorphology (W, ND)
GLY 3480	_____ (3)	Introduction to Oceanography (W, ND)
GLY 3521	_____ (1)	Secondary Science Field Experience
GLY Elective	_____ (3)	Elective _____

**B. At least 12 semester hours selected from the following:**

CHE 1101	_____ (3)	Introductory Chemistry I (ND)
CHE 1110	_____ (1)	Introductory Chemistry I Lab
CHE 1102	_____ (3)	Introductory Chemistry II (ND)
CHE 1120	_____ (1)	Introductory Chemistry II Lab
PHY 1103	_____ (4)	General Physics I (ND)
PHY 1104	_____ (4)	General Physics II (ND)

**C. Also required (24 hours):**

G S 4403	_____ (3)	Teaching Science in the Middle and High Schools (minimum "C" grade required) (W,S,C)
R E 4630	_____ (2)	Reading in the Content Areas (minimum "C" grade required)
AST 1001	_____ (4)	Introductory Astronomy I – The Solar System (ND)
AST 1002	_____ (4)	Introductory Astronomy II – Stars and Galaxies (ND)
BIO 1110	_____ (4)	Concepts in Biology
<u>or</u> BIO 1101	_____ (4)	Introduction to Life Science (ND)
<u>and</u> BIO 1102	_____ (4)	Introduction to Life Science (ND)
GHY 3100	_____ (3)	Weather and Climate
MAT 1110	_____ (4)	Calculus with Analytic Geometry I (ND)

<u>Major Designators</u>	
2 Writing (W)	_____
1 Speaking (S)	_____
Certified Proficiency in Communication (CPC) _____	
Passing grade on 2 <sup>nd</sup> speech in GLY 2735 & grade of D or better in GLY 2735	
<u>Other Designators</u>	
4 Writing (W)	_____
4 Multi Cultural (MC)	_____
2 Numerical Data (ND)	_____
2 Computer (C)	_____
1 Cross Disciplinary (CD)	_____

During the senior year, the B.S. Geology Teaching Licensure degree student must take the Praxis II subject area exam: Earth/Space Science (#0570) portion. The score should be reported to Appalachian State University.

**IV. MINOR (optional)**

**V. ELECTIVES (taken to total 122 hours for the degree).....4**  
2 semester hours of free electives must be outside the major discipline

<b>Total</b>	<b>134</b>
<b>Minus hours double counted in core</b>	<b>-12</b>
<b>Total hours must equal minimum of</b>	<b>122</b>