

I. GENERAL EDUCATION CURRICULUM ..... 44  
Physics 1150 & 1151 fulfill the Science Inquiry perspective. MAT 1110 fulfills the Quantitative Literacy requirement.

II. PROFESSIONAL EDUCATION REQUIREMENTS ..... 24

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

CI/SPE 2800	_____ (3)	Teachers, Schools, and Learners	<b>PROFICIENCIES:</b>
CI/FDN/RE 3850	_____ (3)	Literacy, Technology and Instruction	Reading _____
FDN 3800	_____ (3)	Foundations of American Education	English _____
PSY 3000	_____ (3)	Educational Psychology (Pre: PSY 1200 or Co: CI/SPE 2800)	Speech _____
C I 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). The PRAXIS II Area Exams are required for student teaching. Only CI/SPE 2800 and PSY 3000 may be taken prior to formal admission into the College of Education.

III. MAJOR REQUIREMENTS (not including 14 s.h. counted in Area I, above) ..... 54

**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.**

**A. Area of Specialization for teaching physics:** (minimum of 32 semester hours)

PHY 1103	_____ (4)	General Physics I (Co: MAT 1020/1025)	<b>OR</b>	PHY 1150	_____ (5)	Analytical Physics I (Co: MAT 1110)
PHY 1104	_____ (4)	General Physics II (Pre: PHY 1103)		PHY 1151	_____ (5)	Analytical Physics II (Co: MAT 1120)
PHY 2010	_____ (4)	Intermediate Physics I (Pre: PHY 1104/1151; MAT 1120)				
PHY 2020	_____ (4)	Intermediate Physics II (Pre: PHY 2010; MAT 2130)				
PHY 2210	_____ (2)	Physics Laboratory Techniques and Data Analysis <b>[WID]</b> (Co: ENG 2001; PHY 2020)				
PHY 3210	_____ (3)	Modern Physics I (Pre: PHY 1151; Co: PHY 2010)				
PHY 3521	_____ (1)	Secondary Science Field Experience (Pre Jr/Sr standing)				
PHY 4210	_____ (3)	Methods of Experimental Physics <b>[CAP]</b> (Pre: PHY 2210)				

5 to 7 hours in physics and astronomy electives for minimum of 32 hours in Physics (PHY 3400 and either AST 1001, PHY 4330 or 4730 are recommended) \_\_\_\_\_

**B. Biology (4 sh)**

BIO 1801	_____ (4)	Biological Concepts I (Co: CHE 1101)
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**C. Geology (4 sh)**

GLY 1101	_____ (4)	Introduction to Physical Geology
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**D. Chemistry (8 sh)**

CHE 1101	_____ (3)	Introductory Chemistry I (Co: CHE 1110)
CHE 1110	_____ (1)	Introductory Chemistry I Lab (Co: CHE 1101)
CHE 1102	_____ (3)	Introductory Chemistry II (Pre: CHE 1101/1110; Co: CHE 1120)
CHE 1120	_____ (1)	Introductory Chemistry II Lab (Co: CHE 1102)

**E. Mathematics (15 sh)**

MAT 1110	_____ (4)	Calculus with Analytic Geometry I (Pre: MAT 1025 with grade of C- or better)
MAT 1120	_____ (4)	Calculus with Analytic Geometry II (Pre: MAT 1110 with grade of C- or better)
MAT 2130	_____ (4)	Calculus with Analytic Geometry III (Pre: MAT 1120 with grade of C- or better)
MAT 3130	_____ (3)	Introduction to Differential Equations (Pre: MAT 1120)

**F. Also Recommended**

TEC 2004	_____ (3)	Introduction to Metals Technology
A Computer Programming Course (3 or 4) _____		

**G. Other Required Courses (5 sh) (\*Minimum "C" grade required)**

G S 4403*	_____ (3)	Teaching Science in Middle and High Schools
R E 4630*	_____ (2)	Reading in the Content Areas

Major Requirements that count in Gen Education:	
Quantitative Literacy	
MAT 1110	4 s.h.
Science Inquiry	
PHY 1103	4 s.h.
PHY 1104	4 s.h.
<b>OR</b>	
PHY 1150	5 s.h.
PHY 1151	5 s.h.
Total Major hrs:	68
Gen Ed hrs:	- 12/14
Net Major hrs:	56/54

IV. MINOR (optional)

V. ELECTIVES (taken to total 122 hours for the degree)..... **0**  
Total hours required for graduation **122**