

**I. CORE CURRICULUM ..... 44**

Physics 1150-1151 or 1103-1104 will count toward science requirement. Math 1110 will count toward math requirement.

**II. 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 II. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.**

**A. Physics (32 semester hours)**

PHY 1103 \_\_\_\_\_ (4) General Physics (W, ND)      **OR**      PHY 1150 \_\_\_\_\_ (5) Analytical Physics (W, ND)  
PHY 1104 \_\_\_\_\_ (4) General Physics (W, ND)      PHY 1151 \_\_\_\_\_ (5) Analytical Physics (W, ND)

PHY 2010 \_\_\_\_\_ (4) Intermediate Physics I  
PHY 2020 \_\_\_\_\_ (4) Intermediate Physics II  
PHY 2210 \_\_\_\_\_ (2) Physics Laboratory Techniques & Data Analysis (W)  
PHY 3210 \_\_\_\_\_ (3) Modern Physics I  
PHY 4210 \_\_\_\_\_ (3) Methods of Experimental Physics (W, S)

6-8 hours of Physics electives required to complete 32 semester hours:

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**B. Mathematics (12 semester hours)**

MAT 1110 \_\_\_\_\_ (4) Calculus with Analytic Geometry I (ND)  
MAT 1120 \_\_\_\_\_ (4) Calculus with Analytic Geometry II (ND)  
MAT 2130 \_\_\_\_\_ (4) Calculus with Analytic Geometry III (ND)

<u>Major Designators</u>	
2 Writing (W)	_____
1 Speaking (S)	_____
Certified Proficiency in Communication (CPC)	_____
CPC is met by successful completion of PHY 4210	
<u>Other Designators</u>	
4 Writing (W)	_____
(English 1000 and 1100 will count as 2 W)	
4 Multi Cultural (MC)	_____
(History 1101 and 1102 will count as 2 MC)	
2 Numerical Data (ND)	_____
2 Computer (C)	_____
1 Cross Disciplinary (CD)	_____

**C. At least 18 semester hours in an emphasis area**

A committee consisting of two faculty members from physics and one from each of the other disciplines in the emphasis area must advise each student individually and approve a program of study and any subsequent modification. Some suggested emphasis areas are: astrophysics, geophysics, environmental physics, engineering electronics, radiation safety physics, medical physics, technical management, industrial physics, computational physics, mathematical physics, and technical writing. Many other combinations for emphasis areas are possible and will be developed in consultation with the departmental chairman and the faculty advisory committee.

**III. MINOR (optional)**

**IV. ELECTIVES (taken to total 122 hours for the degree) ..... 16-30**

2 semester hours of free electives must be outside the major discipline.

**122**