

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 (Not including 14 s.h. already counted in I, above) 48

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 I (ND) **OR** PHY 1150 ____ (5) Analytical Physics I (ND)
PHY 1104 ____ (4) General Physics II (ND) PHY 1151 ____ (5) Analytical Physics II (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:

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)

C. At least 18 semester hours in an emphasis area

A committee consisting of three faculty members, at least two of which must be from the Department of Physics and Astronomy, must 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) 30

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

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<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)	____ ____ ____ ____
4 Multi Cultural (MC)	____ ____ ____ ____
2 Numerical Data (ND)	____ ____
2 Computer (C)	____ ____
1 Cross Disciplinary (CD)	_____