

I. CORE CURRICULUM 44

Either Physics 1150-1151 or 1103-1104 will count toward science requirement. Math 1110 will count toward math requirement. Foreign Language 1040 and 1050 (or 1060) may count toward the humanities requirement.

II. FOREIGN LANGUAGE (Completion of 6 semester hours at the *intermediate level, or higher) 6

_____1040 (MC) _____ and 1050 (MC) _____ or 1060 (MC); or higher level courses _____

**NOTE: Foreign language 1010 and 1020 (or 1030) are prerequisites for the intermediate level courses.*

III. MAJOR REQUIREMENTS (Not including 10 s.h. already counted in I, above)..... 45

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. No more than 40 semester hours of Physics and Astronomy courses may be counted toward the BA Degree.

A. Physics Core Requirements (36 semester hours including introductory year of physics):

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 and Data Analysis (W)
PHY 3010 _____ (3) Classical Mechanics
PHY 3020 _____ (3) Electromagnetic Fields and Waves
PHY 4210 _____ (3) Methods of Experimental Physics (W, S)
7 to 9 semester hours of physics and astronomy electives:

B. Mathematics (11 semester hours) (Not including 4 s.h. already counted in I, above)

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)
MAT 3130 _____ (3) Introduction to Differential Equations

C. Chemistry (8 semester hours)

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

<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)	_____

IV. MINOR REQUIRED 12-20

Minimum of 9 semester hours of courses taken to fulfill minor requirements must be courses offered by Appalachian.

V. ELECTIVES (taken to total 122 hours for the degree) 7-15

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