

I. GENERAL EDUCATION CURRICULUM .....44  
CHE 1101/1110 and 1102/1120 fulfill Science Inquiry perspective. MAT 1110 fulfills Quantitative Literacy.

II. FOREIGN LANGUAGE (Completion of 6 semester hours at the \*intermediate level, or higher) .....6  
\_\_\_\_\_1040 \_\_\_\_ and 1050 \_\_\_\_ or 1060 \_\_\_\_; or higher level courses \_\_\_\_\_  
*\*NOTE: Foreign language 1010 and 1020 (or 1030) are prerequisites for the intermediate level courses.*

III. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above).....47  
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 46 semester hours of Physics and Astronomy courses may be counted toward the BA Degree.

A. Physics Core Requirements (36 semester hours):

- PHY 1103 \_\_\_\_\_ (4) General Physics I (Co: MAT 1020/1025)      OR    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 \_\_\_\_\_ (3) Physics Laboratory Techniques and Data Analysis [WID] (Pre: ENG 2001; Co: PHY 2020)
- PHY 3010 \_\_\_\_\_ (3) Classical Mechanics (Pre: PHY 2010; Co: MAT 3130)
- PHY 3020 \_\_\_\_\_ (3) Electromagnetic Fields and Waves (Pre: PHY 2020; MAT 3130)
- PHY 4210 \_\_\_\_\_ (3) Methods of Experimental Physics [CAP] (Pre: PHY 2210)

6 to 8 semester hours of physics and astronomy electives to bring total in Area A to 36 hrs:

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B. Mathematics (15 semester hours)

- MAT 1110 \_\_\_\_\_ (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/grade of C-)
- MAT 1120 \_\_\_\_\_ (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/grade of C-)
- MAT 2130 \_\_\_\_\_ (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/grade of C-)
- MAT 3130 \_\_\_\_\_ (3) Introduction to Differential Equations (Pre: MAT 1120)

C. Chemistry (8 semester hours)

- 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)

Major Requirements that count in Gen Education:	
Quantitative Literacy	
MAT 1110	4 s.h.
Science Inquiry	
CHE 1101/1110	4 s.h.
CHE 1102/1120	4 s.h.
OR	
PHY 1103	4 s.h.
PHY 1104	4 s.h.
OR	
PHY 1150	4 s.h.
PHY 1151	4 s.h.
Perspectives	
(depends on choices)	
FL 1050	3 s.h.
Total Major hrs:	65
Gen Ed-up to 17 hrs:	-15
Net Major hrs:	50

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).....5-13  
2 semester hours of free electives must be outside the major discipline. **122**