

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

Courses totaling 32 semester hours must be completed in addition to the 12 semester hours of courses required for the major that will also meet core curriculum requirements (CHE 1101, 1110, 1102, 1120 and MAT 1110). Must complete ENG 1000 and 1100, HIS 1101 and 1102, 12 semester hours of humanities (courses must be from three different areas, including one literature course and one fine arts course), 6 semester hours of social science courses selected from two different areas and 2 semester hours of physical activity/wellness courses.

**Recommended humanities course: P&R 1100, Logic I (3 semester hours)**

**Recommended social science course: ECO 2030, Principles of Economic Price Theory (3 semester hours)**

**II. MAJOR REQUIREMENTS..... 68**

**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. Chemistry (31 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  
CHE 2101 \_\_\_\_\_ (3) Fundamentals of Organic Chemistry  
**OR**  
CHE 2201 \_\_\_\_\_ (3) Organic Chemistry I  
CHE 2203 \_\_\_\_\_ (1) Organic Chemistry I Lab  
CHE 2210 \_\_\_\_\_ (4) Quantitative Analysis (W)  
CHE 3000 \_\_\_\_\_ (1) Introduction to Chemical Research (S)  
CHE 3301 \_\_\_\_\_ (3) Physical Chemistry I (C)  
CHE 3303 \_\_\_\_\_ (1) Physical Chemistry I Laboratory (W)  
CHE 3404 \_\_\_\_\_ (3) Inorganic Chemistry  
Plus an additional 7 semester hours of chemistry courses

Major Designators

2 Writing (W) \_\_\_\_\_  
1 Speaking (S) \_\_\_\_\_  
Certified Proficiency in Communication (CPC) \_\_\_\_\_  
CPC is met by completion of CHE 2210 (W), CHE 3303 (W), and CHE 3000 (S) with a minimum grade of C- in each course

Other Designators

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) \_\_\_\_\_

**B. Physics (10 semester hours)**

PHY 1150 \_\_\_\_\_ (5) Analytical Physics I (W, ND)  
PHY 1151 \_\_\_\_\_ (5) Analytical Physics II (W, ND)

**C. Mathematics\* (8 semester hours)**

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

\*Students taking a college algebra course before MAT 1110 should enroll in MAT 1025, Algebra and Elementary Functions

**D. Other Science (6-8 semester hours)**

An additional 6-8 semester hours selected from either astronomy, biology, geology, or physics. (Physics courses at the 1000 level, and PHY 3350, are not accepted)

**E. Concentrations (11-23 semester hours)**

The student must also select a concentration in another career support area. Some concentrations currently available are: Certified Chemist (214B), Forensic Science (214H), Marketing and Business (214D), Preprofessional and Paramedical (214E) and Environmental (214G). Other concentrations (214F) may be tailored to meet the special needs of individual students. For more information about these concentrations, see the current Appalachian Bulletin, current checksheets for the concentration and/or the Chairperson of the Department of Chemistry.

**III. MINOR (optional)**

**IV. ELECTIVES (taken to total 122 hours for the degree) ..... 22**

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