

**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 (not including 12 semester hours already counted in I above)..... 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 Course Requirements: 36 semester hours (8 hours already counted in Core Curriculum Science Req.)**

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 2201	_____ (3)	Organic Chemistry I
CHE 2203	_____ (1)	Organic Chemistry I Lab
CHE 2202	_____ (3)	Organic Chemistry II
CHE 2204	_____ (1)	Organic Chemistry II Lab (W)
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
CHE 4560	_____ (4)	Instrumental Methods of Analysis (W)
CHE 4580	_____ (3)	Biochemistry I
CHE 4581	_____ (1)	Biochemistry I Lab (W)

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) **and** PHY 1151 \_\_\_\_\_ (5) Analytical Physics II (W, ND)

**C. Mathematics\*and Statistics: 11 semester hours (4 hours already counted in Core Curriculum)**

MAT 1110 \_\_\_\_\_ (4) Calculus w/Analytic Geom. I (ND) **and** MAT 1120 \_\_\_\_\_ (4) Calculus w/ Analytic Geom. II (ND)

STT 2810 \_\_\_\_\_ (3) Introduction to Data Analysis and Statistical Inference (ND, C)

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

**D. Other Science: 8 semester hours**

BIO 1110 \_\_\_\_\_ (4) Concepts of Biology **and** BIO 3800 \_\_\_\_\_ (4) Molecular Biology (W, ND, C)

**E. Criminal Justice Courses : 15 semester hours**

C J 1100	_____ (3)	Introduction to Criminal Justice
C J 2150	_____ (3)	The Judicial Process (W)
C J 3400	_____ (3)	Theories of Crime and Justice (S, CD)
C J 3405	_____ (3)	Forensic Investigation
CJ/ANT 3305	_____ (3)	Forensic Anthropology (CD)

**III. MINOR (optional)**

**IV. ELECTIVES (taken to total 122 hours for the degree)..... 10**

*Electives recommended by department:* CHE 4590 Spectral Interpretations (2 s.h.), BIO 3306/3307 Genetics and Lab (4 s.h.), STT Statistical Methods I (3 s.h.) and CJ 3551 Criminal Law (3 s.h.) 3307

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