

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.....73-75

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. Individually Designed Concentration (18 semester hours)

A concentration to prepare the chemistry major to pursue other career opportunities may be developed in consultation with the chairperson of the Department of Chemistry and must be individually approved.

III. MINOR (optional)

IV. ELECTIVES (taken to total 122 hours for the degree) 15-17
2 semester hours of free electives must be outside the major discipline. **122**