

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

Courses totaling 26 semester hours must be completed in addition to the 18 semester hours of courses required for the major that will also meet core curriculum requirements (CHE 1101, 1110, 1102, 1120, MAT 1110, PS 2130 & GHY 1010).

**II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above)..... 73**

2.0 major GPA required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II.

**A. Chemistry (32 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 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	_____ (2)	Quantitative Analysis
CHE 2211	_____ (2)	Quantitative Analysis Lab (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 3560	_____ (3)	Instrumental Methods of Analysis
CHE 3561	_____ (1)	Instrumental Methods of Analysis Lab (W)

Major Designators

2 Writing (W) \_\_\_\_\_  
1 Speaking (S) \_\_\_\_\_  
Certified Proficiency in Communication (CPC) \_\_\_\_\_  
CPC is met by completion of CHE 2211 (W), CHE 3303 (W), and CHE 3000 (S) with a minimum grade of C- in each course

Other Designators

4 Writing (W) \_\_\_\_\_  
4 Multi Cultural (MC) \_\_\_\_\_  
2 Numerical Data (ND) \_\_\_\_\_  
2 Computer (C) \_\_\_\_\_  
1 Cross Disciplinary (CD) \_\_\_\_\_

**B. Physics (13 semester hours)**

PHY 1150	_____ (5)	Analytical Physics I (ND)
PHY 1151	_____ (5)	Analytical Physics II (ND)
PHY 3140	_____ (3)	Environmental Physics (CD)

**C. Mathematics\* (8 semester hours)** \*Students taking a college algebra course before MAT 1110 should enroll in MAT 1025.

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

**D. Other Sciences (8 semester hours)**

BIO 1110	_____ (4)	Concepts of Biology
GLY 1101	_____ (4)	Introduction to Physical Geology (ND)

**E. Environmental Concentration (24 semester hours)**

**1. Science and Mathematics (15 semester hours)**

CHE 4620	_____ (4)	Environmental Chemistry (Prerequisites: CHE 3301, CHE 4560, STT 2810)
BIO 3302	_____ (4)	Ecology (ND, C)
GLY 1103	_____ (4)	Introduction to Environmental & Applied Geology (ND)
STT 2810	_____ (3)	Introduction to Statistics (ND, C)

**2. Social Science (9 semester hours)**

ECO 3620	_____ (3)	Environmental & Resource Economics
GHY 1010	_____ (3)	Introduction to Physical Geography
P S 2130	_____ (3)	State and Local Government

**III. MINOR (optional)**

**IV. ELECTIVES (taken to total 122 hours for the degree) ..... 5**

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

**122**

**Recommended Electives**

PHL 1100	_____ (3)	Logic I	CHE 3302	_____ (3)	Physical Chemistry II (C)
GHY 3110	_____ (3)	Vegetation, Soils, and Landforms	CHE 3304	_____ (3)	Physical Chemistry II Laboratory (W)
GHY 4820	_____ (3)	Geographical Hydrology	C S 1440	_____ (3)	Computer Science I (C)
GHY 3310	_____ (3)	Environmental Remote Sensing	GHY 3100	_____ (3)	Weather and Climate
GLY 4630	_____ (3)	Hydrogeology (ND)	GHY 3320	_____ (3)	Envir. Issues in Appalachia (S)
GHY 3820	_____ (3)	GIS for the Environ & Soc Sci (C)	P S 3280	_____ (3)	Public Policy Analysis (W)