

I. GENERAL EDUCATION CURRICULUM44

CHE 1101/1110 and 1102/1120 fulfills the Science Inquiry Perspective. MAT 1110 fulfills the Quantitative Literacy requirement.

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

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 (32 semester hours)

- CHE 1101/1110 ____ (4) Introductory Chemistry I & Lab
- CHE 1102/1120 ____ (4) Introductory Chemistry II & Lab (Pre: CHE 1101/1110)
- CHE 2201 ____ (3) Organic Chemistry I (Pre: CHE 1102/1120; Co: CHE 2203)
- CHE 2203 ____ (1) Organic Chemistry I Lab (Pre: CHE 1102/1120; Co: 2201)
- CHE 2202 ____ (3) Organic Chemistry II (Pre: CHE 2201/2203 w/minimum grade "C-"; Co: 2204)
- CHE 2204 ____ (1) Organic Chemistry II Lab (Pre: CHE 2201/2203 w/minimum grade "C-"; Co: CHE 2202)
- CHE 2210 ____ (3) Quantitative Analysis (Pre: CHE 1102/1120; Co: CHE 2211)
- CHE 2211 ____ (1) Quantitative Analysis Lab (Co: CHE 2210)
- CHE 3000 ____ (1) Introduction to Chemical Research (Pre: CHE 2101 or 2201; 2210)
- CHE 3301 ____ (3) Physical Chemistry I (Pre: CHE 2210 & 2211; MAT 1120; PHY 1151)
- CHE 3303 ____ (1) Physical Chemistry I Laboratory [WID] (Co: CHE 3301; Pre: ENG 2001)
- CHE 3404 ____ (3) Inorganic Chemistry (Pre: CHE 3301)
- CHE 3560 ____ (3) Instrumental Methods of Analysis (Pre: CHE 3301; Co: 3561)
- CHE 3561 ____ (1) Instrumental Methods of Analysis Lab (Co: 3560)

B. Physics (13 semester hours)

- PHY 1150 ____ (5) Analytical Physics I (Co: MAT 1110)
- PHY 1151 ____ (5) Analytical Physics II (Co: MAT 1120)
- PHY 3140 ____ (3) Environmental Physics (Pre: PHY 1104 or 1151)

C. Mathematics (8 semester hours)

- MAT 1110 ____ (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-)
- MAT 1120 ____ (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade C-)

D. Other Sciences (8 semester hours)

- BIO 1801 ____ (4) Biological Concepts I (Co: CHE 1101)
- GLY 1101 ____ (4) Introduction to Physical Geology

E. Environmental Concentration (24 semester hours) ECO 2620 & GHY 1010 may be used in General Education Perspectives.

1. Science and Mathematics (15 semester hours)

- CHE 4620 ____ (4) Environmental Chemistry [CAP] (Pre: CHE 3301, 3560, 3561; STT 2810)
- BIO 3302 ____ (4) Ecology (Pre: BIO 1801)
- GLY 1103 ____ (4) Introduction to Environmental & Applied Geology
- STT 2810 ____ (3) Introduction to Statistics (Pre: MAT 1010)

2. Social Science (9 semester hours)

- ECO 2620 ____ (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

CHE 3302 ____ (3) Physical Chem II (Pre/Co: CHE 2211; MAT 1120; PHY 1151)	GHY 3320 ____ (3) Environmental Issues in Appalachia
CHE 3304 ____ (3) Physical Chemistry II Lab (Pre/Co: CHE 3302)	GHY 3820 ____ (3) GIS for the Environ & Soc Science
C S 1440 ____ (3) Computer Science I (Pre: MAT 1020/1025 w/grade "C-")	GHY 4820 ____ (3) Geographical Hydrology (Pre: GHY 1010, 3100, 3110)
GHY 3100 ____ (3) Weather and Climate (Pre: GHY 1010)	GLY 4630 ____ (3) Hydrogeology (Pre: Jr. standing; 6 sh GLY ≥ 1000)
GHY 3110 ____ (3) Vegetation, Soils, & Landforms (Pre: GHY 1010)	PHL 1100 ____ (3) Logic I
GHY 3310 ____ (3) Environmental Remote Sensing	P S 3280 ____ (3) Public Policy Analysis