

I. GENERAL EDUCATION CURRICULUM44*CHE 1101, 1110, 1102, 1120, and MAT 1110 will fulfill General Education requirements.***II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above)74****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 (<i>Pre: CHE 1101 & 1110</i>)
CHE 2201	(3)	Organic Chemistry I (<i>Pre: CHE 1102 & 1120; Co: CHE 2203</i>)
CHE 2203	(1)	Organic Chemistry I Lab (<i>Pre: CHE 1102 & 1120; Co: 2201</i>)
CHE 2202	(3)	Organic Chemistry II (<i>Pre: CHE 2201 & 2203 w/minimum grade "C-"; Co: 2204</i>)
CHE 2204	(1)	Organic Chemistry II Lab (<i>Pre: CHE 2201 & 2203 w/minimum grade "C-"; Co: CHE 2202</i>)
CHE 2210	(3)	Quantitative Analysis (<i>Pre: CHE 1102 & 1120; Co: CHE 2211</i>)
CHE 2211	(1)	Quantitative Analysis Lab (<i>Co: CHE 2210</i>)
CHE 3000	(1)	Introduction to Chemical Research (<i>Pre: CHE 2101 or 2201; 2210</i>)
CHE 3301	(3)	Physical Chemistry I (<i>Pre: CHE 2210 & 2211; MAT 1120; PHY 1151</i>)
CHE 3303	(1)	Physical Chemistry I Laboratory [WID] (<i>Pre: RC 2001; Pre/Co: CHE 3301</i>)
CHE 3404	(3)	Inorganic Chemistry (<i>Pre: CHE 2101 & 2102 or 2202 & 2204; CHE 2210 & 2211</i>)
CHE 3560	(3)	Instrumental Methods of Analysis (<i>Pre: CHE 3301 & 3303; Co: 3561</i>)
CHE 3561	(1)	Instrumental Methods of Analysis Lab (<i>Co: 3560</i>)

B. Physics (13 semester hours)

PHY 1150	(5)	Analytical Physics I (<i>Co: MAT 1110</i>)
PHY 1151	(5)	Analytical Physics II (<i>Co: MAT 1120</i>)
PHY 3140	(3)	Environmental Physics (<i>Pre: PHY 1104 or 1151</i>)

C. Mathematics (8 semester hours)

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

D. Other Sciences (8 semester hours)

BIO 1801	(4)	Biological Concepts I (<i>Co: CHE 1101</i>)
GLY 1101	(4)	Introduction to Physical Geology

E. Environmental Concentration (25 semester hours) Some general education requirements may be double-counted in the major. See your advisor for information.**1. Science and Mathematics (16 semester hours)**

BIO 3302	(4)	Ecology (<i>Pre: BIO 1801</i>)
CHE 4620	(4)	Environmental Chemistry [CAP] (<i>Pre: CHE 3301 & 3303, 3560 & 3561; STT 3850</i>)
GLY 1103	(4)	Environmental Change, Hazards, & Resources
STT 3850	(4)	Statistical Data Analysis (<i>Pre: MAT 1110</i>)

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).....4
2 semester hours of free electives must be outside the major discipline. 122****Recommended Electives**

CHE 3302	(3)	Physical Chemistry II (<i>Pre: CHE 3301</i>)	GHY 3320	(3)	Environmental Issues in Appalachia
CHE 3304	(1)	Physical Chemistry II Lab (<i>Pre: CHE 3303; Pre/Co: CHE 3302</i>)	GHY 4820	(3)	Geographical Hydrology (<i>Pre: GHY 1010, 3100, 3110</i>)
C S 1440	(3)	Computer Science I (<i>Pre: MAT 1020/1025 w/grade "C-"</i>)	GLY 4630	(3)	Hydrogeology (<i>Pre: GLY 2250; MAT 1110; PHY 1103 or 1150; Sr. Stg</i>)
GHY 3100	(3)	Weather and Climate (<i>Pre: GHY 1010</i>)	PHL 1100	(3)	Logic I
GHY 3110	(3)	Vegetation, Soils, & Landforms (<i>Pre: GHY 1010</i>)	PHL 3280	(3)	Public Policy Analysis [WID-PS] (<i>Pre: RC 2001</i>)
GHY 3310	(3)	Environmental Remote Sensing			