

**I. GENERAL EDUCATION CURRICULUM..... 44**  
*CHE 1101/1110 and 1102/1120 fulfills the Science Inquiry Perspective. MAT 1110 fulfills the Quantitative Literacy.*

**II. MAJOR REQUIREMENTS (not including 12 semester hours already counted in I above) ..... 69**  
**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: 37 semester hours (8 hours already counted in Core Curriculum Science Req.)**

CHE 1101	_____ (3)	Introductory Chemistry I (Co: CHE 1110)
CHE 1110	_____ (1)	Introductory Chemistry I Lab (Co: CHE 1101)
CHE 1102	_____ (3)	Introductory Chemistry II (Pre: CHE 1101/1110; Co: CHE 1120)
CHE 1120	_____ (1)	Introductory Chemistry II Lab (Co: CHE 1102)
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: CHE 2201)
CHE 2202	_____ (3)	Organic Chemistry II (Pre: CHE 2201/2203 w/minimum grade "C-"; Co: CHE 2204)
CHE 2204	_____ (1)	Organic Chemistry II Lab (Pre: CHE 2201/2203 w/minimum grade of "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 2202; CHE 2210)
CHE 3301	_____ (3)	Physical Chemistry I (Pre: CHE 2210/2211; MAT 1120; PHY 1151)
CHE 3303	_____ (1)	Physical Chemistry I Laboratory <b>[WID]</b> (Pre: ENG 2001; Pre/Co: CHE 3301)
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: CHE 3560)
CHE 4000	_____ (1)	Chemistry Seminar <b>[CAP]</b> (Pre: CHE 3000, 3303)
CHE 4580	_____ (3)	Biochemistry I (Pre: CHE 2101 or 2202)
CHE 4581	_____ (1)	Biochemistry I Lab (Pre: CHE 2102 or 2204; Co: 4580; Sr. standing)

**B. Physics (10 semester hours)**

PHY 1150	_____ (5)	Analytical Physics I (Pre: MAT 1110)
PHY 1151	_____ (5)	Analytical Physics II (Pre: MAT 1120)

**C. Mathematics (11 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-)
STT 2810	_____ (3)	Introduction to Statistics (Pre: MAT 1010)

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

BIO 1801	_____ (4)	Biological Concepts I (Co: CHE 1101)
BIO 3800	_____ (4)	Molecular Biology (Pre: CHE 2201 or 2101; BIO 1801)

**E. Criminal Justice Courses (15 semester hours)**

C J 1100	_____ (3)	Introduction to Criminal Justice
C J 3400	_____ (3)	Theories of Crime and Justice
C J 3405	_____ (3)	Forensic Investigation
C J 3551	_____ (3)	Criminal Law
C J 3552	_____ (3)	Criminal Procedure

**III. MINOR (optional)**

**IV. ELECTIVES (taken to total 122 hours for the degree) ..... 9**  
**2 semester hours of free electives must be outside the major discipline. 122**

Total major = 81hrs; Gen Ed courses may count in major (depends on choices) – up to 12; net major 69 hours.

*Electives recommended by department:*

CHE 4590 Spectral Interpretations (2 s.h), BIO 2400/2410 Genetics and Lab (4 s.h.), STT 3820 Statistical Methods I (3 s.h.)