

- I. GENERAL EDUCATION CURRICULUM**..... **44**
CHE 1101/1110 and 1102/1120 fulfill 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.)
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|----------|-----------|-------------------------------------------------------------------------------------|
| 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 [WID] (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 [CAP] (Pre: CHE 3000, 3303) |
| CHE 4580 | _____ (3) | Biochemistry I (Pre: CHE 2101 or 2202) |
| CHE 4581 | _____ (1) | Biochemistry I Lab (Pre: CHE 2203; Co: 4580) |
- B. Physics (10 semester hours)**
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|----------|-----------|---------------------------------------|
| PHY 1150 | _____ (5) | Analytical Physics I (Pre: MAT 1110) |
| PHY 1151 | _____ (5) | Analytical Physics II (Pre: MAT 1120) |
- C. Mathematics (11 semester hours)**
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|----------|-----------|-------------------------------------------------------------------|
| 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)**
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|----------|-----------|-----------------------------------------------------|
| 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)**
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|----------|-----------|----------------------------------|
| 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**
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.)