

I. GENERAL EDUCATION CURRICULUM 44
Chemistry 1101/1110 & 1102/1120 fulfills Science Inquiry. Math 1110 fulfills Quantitative Literacy requirement.

II. PROFESSIONAL EDUCATION REQUIREMENTS 24

A minimum grade of C is required in each professional education course. CI 2300 & FDN 2400 are required prior to admission to Teacher Educ.

- CI 2300 ____ (2) Teaching and Learning in the Digital Age (*Entry course to teacher education*)
- FDN 2400 ____ (2) Critical Perspectives on Teaching and Learning (*Pre or Co: CI 2300*) (*Entry course to teacher education*)
- PSY 3010 ____ (3) Psychology Applied to Teaching (*Pre or Co: CI 2300*)
- SPE 3300* ____ (3) Creating Inclusive Learning Communities (*Pre: CI 2300, FDN 2400, PSY 3010*)
- CI 3400* ____ (2) Policies and Practice in Educational Assessment (*Pre: CI 2300, FDN 2400, PSY 3010*)
- CI 4900 ____ (12) Student Teaching [CAP] (*All courses in professional core must be completed with grades of C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major.*)

PROFICIENCIES:
Reading ____
English ____

*Admission to Teacher Education required.

NOTE: To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching.

III. MAJOR REQUIREMENTS (Not including 12 semester hours already counted in I, above) 55-56
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 III. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

A. Biology Core Requirements: 8 semester hours (must be completed before taking any other biology courses)

- BIO 1801 ____ (4) Biological Concepts I (*Co: CHE 1101*) **AND** BIO 1802 ____ (4) Bio Concepts II (*Pre: Bio 1801 w/min grade "C"*)

B. Additional Required Biology Courses: 22-23 semester hours (Pre: BIO 1801 & 1802 required for all additional BIO courses)

- BIO 2012 ____ (3) Introduction to Evolutionary Biology
- BIO 2400 ____ (3) Genetics (*Pre: CHE 1102, MAT 1025*)
- BIO 2410 ____ (1) Genetics Laboratory (*Pre/Co: BIO 2400/2700*)
- BIO 3312 ____ (3) Environmental Studies [WID] (*Pre: RC 2001*)
- BIO 3521 ____ (1) Secondary Science Field Experience (*Pre: Jr/Sr standing*)
- BIO 3800 ____ (4) Molecular Biology [WID] (*Pre: CHE 2201/2101; RC 2001*)
- BIO 3301 ____ (4) Human Systems Phys [WID] (*Pre: CHE 2201/2101; RC 2001*) **OR** BIO 4555 ____ (4) Plant Phys (*Pre: CHE 1102 & 1120; Sr. stg*)

Biodiversity: Choose one course from the following: 3-4 semester hours

- BIO 2000 ____ (4) Introduction to Botany
- BIO 3304 ____ (4) Systematic Botany (*Pre: BIO 2000*)
- BIO 4552 ____ (4) Entomology (*Pre: Sr. standing*)
- BIO 4557 ____ (4) Ichthyology (*Pre: Sr. standing*)
- BIO 4559 ____ (4) Mammalogy (*Pre: Sr. standing*)
- BIO 4569 ____ (4) Invertebrate Zoology (*Pre: Sr. standing*)
- BIO 2001 ____ (4) Introduction to Zoology
- BIO 4551 ____ (4) Ornithology (*Pre: Sr. standing*)
- BIO 4556 ____ (4) Mycology (*Pre: Sr. standing*)
- BIO 4558 ____ (3) Taxonomy of the Fleshy Fungi (*Pre: Sr. standing*)
- BIO 4560 ____ (4) Herpetology (*Pre: Sr. standing*)

C. Required Cognate Courses: 37 semester hours (12 semester hours of cognate courses are counted in general ed requirements.)

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| Chemistry | Mathematics |
| CHE 1101/1110 ____ (4) Intro. Chem I & lab | MAT 1110 ____ (4) Calc w/Analytical Geom. I (<i>Pre: MAT 1025 w/C-</i>) |
| CHE 1102/1120 ____ (4) Intro. Chem II & lab (<i>Pre: CHE 1101 & 1110</i>) | STT 2810 ____ (3) Intro to Statistics (<i>Pre: MAT 1010</i>) |
| CHE 2101/2102 ____ (4) Fundamentals of Organic Chem I & lab (<i>Pre: CHE 1102 & 1120</i>) | |

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| Physics | General Science (minimum grade of "C" required) |
| PHY 1103 ____ (4) General Physics I (<i>Co: MAT 1020 or 1025</i>) | G S 4403 ____ (3) Teaching Sci in Mid/HS [WID] (<i>Pre: RC 2001</i>) |
| PHY 1104 ____ (4) General Physics II (<i>Pre: PHY 1103</i>) | G S 4404 ____ (3) Meaning & Nature of Sci [WID] (<i>Pre: RC 2001</i>) |

- Geology**
GLY 1101 ____ (4) Intro to Physical Geology

IV. MINOR (optional)

V. ELECTIVES (taken to total 128 hours for the degree) 4-5
2 semester hours of free electives must be outside the major discipline. 128