

I. GENERAL EDUCATION CURRICULUM 44
Chemistry 1101/1110 & 1102/1120 fulfills Science Inquiry Perspective. 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 (<i>Entry course to teacher education</i>)	
FDN 2400	_____ (2)	Critical Perspectives on Teaching and Learning (<i>Pre or Co: CI 2300</i>) (<i>Entry course to teacher education</i>)	
PSY 3010	_____ (3)	Psychology Applied to Teaching (<i>Pre or Co: CI 2300</i>)	PROFICIENCIES:
SPE 3300*	_____ (3)	Creating Inclusive Learning Communities (<i>Pre: CI 2300, FDN 2400, PSY 3010</i>)	Reading _____
CI 3400*	_____ (2)	Policies and Practice in Educational Assessment (<i>Pre: CI 2300, FDN 2400, PSY 3010</i>)	English _____
CI 4900	_____ (12)	Student Teaching [CAP] (<i>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.</i>)	Speech _____

*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: BIO 1801, CHE 1102, MAT 1025*)
BIO 2410 _____ (1) Genetics Laboratory (*Pre/Co: BIO 2400/2700*)
BIO 3312 _____ (3) Environmental Studies [**WID**] (*Pre: CHE 2201 or 2101; ENG 2001*)
BIO 3521 _____ (1) Secondary Science Field Experience
BIO 3800 _____ (4) Molecular Biology [**WID**] (*Pre: 1 semester organic CHE; ENG 2001*)
BIO 3301 _____ (4) Human Systems Physiology [**WID**] (*Pre: CHE 2201/2101; ENG 2001*) **OR** BIO 4555 _____ (4) Plant Phys (*Pre: CHE 1102/1120*)

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

BIO 2000 _____ (4) Introduction to Botany	BIO 2001 _____ (4) Introduction to Zoology
BIO 3304 _____ (4) Systematic Botany (<i>Pre: BIO 2000</i>)	BIO 4551 _____ (4) Ornithology
BIO 4552 _____ (4) Entomology	BIO 4556 _____ (4) Mycology
BIO 4557 _____ (4) Ichthyology	BIO 4558 _____ (3) Taxonomy of the Fleshy Fungi
BIO 4559 _____ (4) Mammalogy	BIO 4560 _____ (4) Herpetology
BIO 4569 _____ (4) Invertebrate Zoology	

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

Chemistry

CHE 1101/1110 _____ (4) Intro. Chem I & lab
CHE 1102/1120 _____ (4) Intro. Chem II & lab (*Pre: CHE 1101/1110*)
CHE 2101/2102 _____ (4) Fundamentals of Organic Chem I & lab (*Pre: CHE 1102/1120*)

Mathematics

MAT 1110 _____ (4) Calc w/Analytical Geom. I (*Pre: MAT 1025 w/C-*)
STT 2810 _____ (3) Intro to Statistics (*Pre: MAT 1010*)

Physics

PHY 1103 _____ (4) General Physics I (*Co: MAT 1020 or 1025*)
PHY 1104 _____ (4) General Physics II (*Pre: PHY 1103*)

General Science (minimum grade of "C" required)

G S 4403 _____ (3) Tchg Sci in Mid/HS [**WID**] (*Pre: ENG 2001*)
G S 4404 _____ (3) Meaning & Nature of Sci [**WID**] (*Pre: ENG 2001*)

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

Total major requirements – 67-68; Gen Ed courses that may count in major (depends on choices) – 12; net major 55-56 hours.