

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 (*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*)**PROFICIENCIES:**SPE 3300* ____ (3) Creating Inclusive Learning Communities (*Pre: CI 2300, FDN 2400, PSY 3010*)

Reading ____

CI 3400* ____ (2) Policies and Practice in Educational Assessment (*Pre: CI 2300, FDN 2400, PSY 3010*)

English ____

CI 4900 ____ (12) Student Teaching [CAP] (*All courses in professional core must be completed with grades of*

Speech ____

C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major.

*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 (*Pre: BIO 2000*)

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**