

**I. CORE CURRICULUM ..... 44**

Chemistry 1101-1110, 1102-1120; or Physics 1103, 1104 will count toward science requirement. Math 1110 will count toward the math requirement. NOTE: Some courses listed in Section I will also be used in Section III.

**II. PROFESSIONAL EDUCATION REQUIREMENTS..... 24**

**A minimum grade of C is required in each professional education course.**

CI/SPE 2800	_____ (3)	Teachers, Schools, and Learners (W, C)	<b>PROFICIENCIES:</b>
CI/FDN/RE 3850	_____ (3)	Literacy, Technology and Instruction (C)	Reading _____
FDN 3800	_____ (3)	Foundations of American Education (CD)	English _____
PSY 3000	_____ (3)	Educational Psychology (MC, CD)	Speech _____
C I 4900	_____ (12)	Student Teaching	

**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). Note, however, that the Area Exam is required for licensure. Only CI/SPE 2800 and PSY 3000 may be taken prior to formal admission into the Teacher Education Program.

**III. MAJOR REQUIREMENTS (Not including 12 semester hours already counted in I, above) ..... 58**

**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: 12 semester hours (must be completed before taking any other biology courses)**

- BIO 1110 \_\_\_\_\_ (4) Concepts of Biology
- BIO 2000 \_\_\_\_\_ (4) Introduction to Botany
- BIO 2001 \_\_\_\_\_ (4) Introduction to Zoology

**B. Additional Required Biology Courses: 26 semester hours**

- BIO 3301 \_\_\_\_\_ (4) Animal Physiology (W, ND)
- OR**
- BIO 4555 \_\_\_\_\_ (4) Plant Physiology (W, ND, C)
  
- BIO 3306 \_\_\_\_\_ (3) Genetics (ND)
- BIO 3307 \_\_\_\_\_ (1) Genetics Laboratory (W, ND)
- BIO 3308 \_\_\_\_\_ (4) Bacteriology
- BIO 3312 \_\_\_\_\_ (3) Environmental Studies (W, S)
- BIO 3436 \_\_\_\_\_ (3) Introduction to Evolutionary Biology (W, S, ND)
- BIO 3520 \_\_\_\_\_ (1) Instructional Assistance
- BIO 3800 \_\_\_\_\_ (4) Molecular Biology (W, ND, C)
- One organismal biology course (3 semester hours minimum)  
is also required \_\_\_\_\_

Major Designators  
 2 Writing (W) \_\_\_\_\_  
 1 Speaking (S) \_\_\_\_\_  
 Certified Proficiency in Communication (CPC) \_\_\_\_\_  
 CPC is met by completion of W and S courses within the department with a grade of "C" or better.

Other Designators  
 4 Writing (W) \_\_\_\_\_  
 (English 1000 and 1100 will count as 2 W)  
 4 Multi Cultural (MC) \_\_\_\_\_  
 (History 1101 and 1102 will count as 2 MC)  
 2 Numerical Data (ND) \_\_\_\_\_  
 2 Computer (C) \_\_\_\_\_  
 1 Cross Disciplinary (CD) \_\_\_\_\_

**C. Required Cognate Courses: 32 semester hours**

NOTE: 12 semester hours of cognate courses are counted in core curriculum requirements.

**Chemistry**

- CHE 1101/1110 \_\_\_\_\_ (4) Intro. Chem. I (ND)& lab
- CHE 1102/1120 \_\_\_\_\_ (4) Intro. Chem. II (ND) & lab
- CHE 2101/2203 \_\_\_\_\_ (4) Fundamentals of Organic Chemistry & Lab

**Physics**

- PHY 1103 \_\_\_\_\_ (4) General Physics (ND)
- PHY 1104 \_\_\_\_\_ (4) General Physics (ND)

**Mathematics**

- MAT 1110 \_\_\_\_\_ (4) Calculus w/ Analytic Geometry I (ND)
- STT 2810 \_\_\_\_\_ (3) Intro to Data Anal. & Stat. Inf. (ND, C)

**General Science (minimum grade of C is required)**

- G S 4403 \_\_\_\_\_ (3) Teaching Science in Middle & High Schools (W, S, C)

**Reading (minimum grade of C is required)**

- R E 4630 \_\_\_\_\_ (2) Reading in the Content Areas

**IV. MINOR (optional)**

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