

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

Chemistry 1101/1110 and 1102/1120 or Physics 1103-1104 will count toward science requirement. Math 1110 will count toward math requirement. Foreign language 1040 and 1050 (or 1060) will count toward humanities requirements.

**II. FOREIGN LANGUAGE (Completion of 6 semester hours at the \*intermediate level, or higher)..... 6**

\_\_\_\_\_ 1040 (MC) \_\_\_\_\_ and 1050 (MC) \_\_\_\_\_ or 1060 (MC); or higher level courses \_\_\_\_\_

*\*NOTE: Foreign language 1010 and 1020 (or 1030) are prerequisites for the intermediate level courses.*

**III. MAJOR REQUIREMENTS (Not including 12 semester hours already counted in I, above) ..... 53**

**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. No more than 40 semester hours of biology courses may be counted toward the BA Degree.**

**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. Required Biology Course: 3 semester hours**

- BIO 3306 \_\_\_\_\_ (3) Genetics (ND)

**C. Additional Required Biology Courses: Choose 19 semester hours in courses numbered above 2001.**

**At least one course must be selected from each of the following areas:**

**Area I Cellular or Subcellular**

- BIO 3308 \_\_\_\_\_ (4) Microbiology
- BIO 3309 \_\_\_\_\_ (4) Developmental Biology
- BIO 3800 \_\_\_\_\_ (4) Molecular Biology (W, ND, C)
- BIO 4100 \_\_\_\_\_ (4) Cell Biology
- BIO 4564 \_\_\_\_\_ (4) Microscopy
- BIO 4568 \_\_\_\_\_ (4) Immunology

**Area III Evolution or Ecology**

- BIO 3302 \_\_\_\_\_ (4) Ecology (ND, C)
- BIO 3310 \_\_\_\_\_ (3) Marine Biology (W)
- BIO 3312 \_\_\_\_\_ (3) Environmental Studies (W, S)
- BIO 3436 \_\_\_\_\_ (3) Introduction to Evol. Bio. (W, S, ND)
- BIO 4601 \_\_\_\_\_ (3) Animal Behav.-Ethology (W, ND, S)

Other courses to total 19 s.h. \_\_\_\_\_

**Area II Anatomy or Physiology**

- BIO 3301 \_\_\_\_\_ (4) Animal Physiology (W, ND)
- BIO 3314 \_\_\_\_\_ (4) Comparative Vertebrate Zoology
- BIO 4555 \_\_\_\_\_ (4) Plant Physiology (W, ND, C)
- BIO 4569 \_\_\_\_\_ (4) Invertebrate Zoology

**Area IV Systematic or Field Biology**

- BIO 3304 \_\_\_\_\_ (3) Systematic Botany
- BIO 3310 \_\_\_\_\_ (3) Marine Biology (W)
- BIO 4551 \_\_\_\_\_ (3) Ornithology
- BIO 4556 \_\_\_\_\_ (4) Mycology
- BIO 4557 \_\_\_\_\_ (3) Ichthyology
- BIO 4559 \_\_\_\_\_ (3) Mammalogy
- BIO 4560 \_\_\_\_\_ (3) Herpetology
- BIO 4570 \_\_\_\_\_ (4) Parasitology
- BIO 4580 \_\_\_\_\_ (3) Field Bio.of the Continental USA

**D. Required cognate courses: 31 semester hours (12 hrs. of cognate courses are already counted in Core Curriculum)**

**Chemistry**

- CHE 1101/1110 \_\_\_\_\_ (4) Introduction to Chemistry I (ND) & lab
- CHE 1102/1120 \_\_\_\_\_ (4) Introduction to Chemistry II (ND) & lab
- CHE 2201/2203 \_\_\_\_\_ (4) Organic Chemistry I & lab
- CHE 2202/2204 \_\_\_\_\_ (4) Organic Chemistry II & lab (W)

**Mathematics**

- MAT 1110 \_\_\_\_\_ (4) Calculus w/ Analytical Geometry I (ND)
- STT 2810 \_\_\_\_\_ (3) Introduction to Statistics (ND, C)

**Physics**

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

<u>Major Designators</u>	
2 Writing (W)	_____
1 Speaking (S)	_____
Certified Proficiency in Communication (CPC)_____	
Completion of the W and S courses in the major with a grade of "C" or better will meet the CPC.	
<u>Other Designators</u>	
4 Writing (W)	_____
4 Multi Cultural (MC)	_____
2 Numerical Data (ND)	_____
2 Computer (C)	_____
1 Cross Disciplinary (CD)	_____

**IV. MINOR REQUIRED.....12-20**

Minimum of 9 semester hours of courses taken to fulfill minor requirements must be courses offered by Appalachian.

**V. ELECTIVES (taken to total 128 hours for the degree) .....5-13**

2 semester hours of free electives must be outside the major discipline.