

I. CORE CURRICULUM 44

Either Chemistry 1101/1110 and 1102/1120 or Physics 1103-1104 will fulfill the science requirement. Math 1110 fulfills the math requirement. Courses used to fulfill Core Curriculum requirements can also be used to fulfill major requirements.

II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above) 77-78

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 II. 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: 30-31 semester hours

Required: 8 semester hours

- BIO 3306 ____ (3) Genetics (ND)
- BIO 3307 ____ (1) Genetics Lab (W, ND)
- BIO 3800 ____ (4) Molecular Bio. (W, ND, C)

Choose any two of the following:

- BIO 3308 ____ (4) Microbiology
- BIO 4100 ____ (4) Cell Biology
- BIO 4568 ____ (4) Immunology
- BIO 4570 ____ (4) Parasitology

Choose one of the following:

- BIO 3309 ____ (4) Developmental Biology
- BIO 3314 ____ (4) Comparative Vertebrate Zoology
- BIO 4569 ____ (4) Invertebrate Zoology

Choose one of the following:

- BIO 3301 ____ (4) Animal Physiology (W, ND)
- BIO 4555 ____ (4) Plant Physiology (W, ND, C)

Choose one of the following:

- BIO 3302 ____ (4) Ecology (ND, C)
- BIO 3312 ____ (3) Environmental Studies (W, S)
- BIO 3436 ____ (3) Introduction to Evol. Bio. (W, S, ND)

At least one field course (minimum 3 semester hours) is required _____

C. Required cognate courses: 34 semester hours (12 hours of CHE or PHY and MAT are already counted in Core Curriculum.)

Chemistry

- CHE 1101/1110 ____ (4) Intro. Chemistry I (ND) & lab
- CHE 1102/1120 ____ (4) Intro. Chemistry II (ND) & lab
- CHE 2201/2203 ____ (4) Organic Chemistry I & lab
- CHE 2202/2204 ____ (4) Organic Chemistry II & lab (W)
- CHE 4580 ____ (3) Biochemistry I

Physics

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

Mathematics

- MAT 1110 ____ (4) Calculus w/ Analytical Geom. I (ND)
- STT 2810 ____ (3) Introduction to Statistics (ND, C)

D. Required Electives: 13 semester hours

6 semester hours in the sciences _____

7 semester hours outside the sciences _____

III. MINOR (optional)

<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. ELECTIVES (taken to total a minimum of 128 hours for the degree) 6-7

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

Electives chosen in D above can be used.