

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) Bacteriology
- BIO 3309 ____ (3) Developmental Biology
- BIO 3800 ____ (4) Molecular Biology (W, ND, C)
- BIO 4100 ____ (4) Cell Biology
- BIO 4564 ____ (3) Electron Microscopy
- BIO 4568 ____ (4) Immunology
- Area III Evolution or Ecology**
- BIO 3302 ____ (3) Ecology (ND, C)
- BIO 3310 ____ (3) Marine Biology (W)
- BIO 3312 ____ (3) Environmental Studies (W, S)
- BIO 3436 ____ (3) Intro. to Evol. Bio. (W, S, ND)
- BIO 4601 ____ (3) Animal Behav.-Ethology (W, ND, S)

Area II Anatomy or Physiology

- BIO 3301 ____ (4) Animal Physiology (W, ND)
- BIO 3314 ____ (4) Comparative Vertebrate Zoology
- BIO 3456 ____ (3) Invertebrate Zoology
- BIO 4555 ____ (4) Plant Physiology (W, ND, C)

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 4560 ____ (3) Parasitology
- BIO 4580 ____ (3) Field Bio.of the Continent. USA

Other courses to total 19 s.h. _____

D. Required cognate courses: 31 semester hours (12 hrs. of cognate courses 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)

Mathematics

- MAT 1110 ____ (4) Calculus w/ Analy. Geom. I (ND)
- STT 2810 ____ (3) Intro. to Data Analy. & Stat. Inf. (ND, C)

Physics

- PHY 1103 ____ (4) General Physics (W, ND)
- PHY 1104 ____ (4) General Physics (W, ND)

Major Designators	
2 Writing (W)	____ ____
1 Speaking (S)	____
Certified Proficiency in Communication (CPC)_____	
Completion of the W and S courses in the department with a grade of "C" or better will meet the CPC.	
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)	____

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.