

I. CORE CURRICULUM 44

Chemistry 1101-1110, 1102-1120 will count toward the science requirement. Math 1110 will count toward the math requirement. Depending on the concentration chosen, some courses may also apply toward social science 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)..... 65-66

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: 34 semester hours

BIO 3302 ____ (4) Ecology (ND, C)
BIO 3306 ____ (3) Genetics (ND)
BIO 3436 ____ (3) Introduction to Evolutionary Biology (W, S, ND)

and one of the following:

BIO 3301 ____ (4) Animal Physiology (W, ND)
BIO 3308 ____ (4) Microbiology
BIO 3800 ____ (4) Molecular Biology (W, ND, C)
BIO 4100 ____ (4) Cell Biology
BIO 4555 ____ (4) Plant Physiology (W, ND, C)

Any four from the following (must include one plant biology course):

BIO 3304 ____ (3) Systematic Botany
BIO 3314 ____ (4) Comparative Vertebrate Zoology
BIO 4551 ____ (3) Ornithology
BIO 4556 ____ (4) Mycology
BIO 4559 ____ (3) Mammalogy
BIO 4601 ____ (3) Animal Behavior-Ethology (W, S, ND)

5-8 elective hours to complete 34 semester hours _____

C. Required Cognate Courses: 19 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 Chem & lab*

OR

CHE 2210/2211 ____ (4) Quantitative Analysis & Lab (W)

Mathematics

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

*The sequence of CHE 2201/2203 and CHE 2202/2204 can substitute for CHE 2101/2203

D. Basic Science Concentration: 12-13 semester hours

Choose Option 1 (13 hours) or Option 2 (12 hours). Students are encouraged to complete a minor in their chosen concentration by selection of one or two additional courses (consult advisor).

Option 1 (Complete 13 hours with at least 1 course from each area)

Area 1. ECO 2030 ____ (3) Principles of Eco – Price Theory
Area 2. GLY 1101 ____ (4) Intro to Physical Geology (ND)
GLY 1102 ____ (4) Intro to Historical Geol (ND, CD)
GLY 1103 ____ (4) Intro to Envir & Appl Geol (ND)
Area 3. GHY 1010 ____ (3) Physical Geography
GHY 3100 ____ (3) Weather and Climate

Option 2 (12 semester hours required)

CHE 2202/2204 ____ (4) Organ. Chem. II & lab (W)
PHY 1103 ____ (4) General Physics I (ND)
PHY 1104 ____ (4) General Physics II (ND)

III. MINOR (optional)

IV. ELECTIVES (taken to a minimum of 128 hours for the degree) 18-19
2 semester hours of free electives must be outside the major discipline. **128**

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 major with a grade of "C" or better.

Other Designators

4 Writing (W) ____ ____ ____ ____
4 Multi Cultural (MC) ____ ____ ____ ____
2 Numerical Data (ND) ____ ____
2 Computer (C) ____ ____
1 Cross Disciplinary (CD) ____