

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

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

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) ____

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) Bacteriology
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)
BIO 3310 ____ (3) Marine Biology (W)
BIO 3456 ____ (3) Invertebrate Zoology
BIO 4552 ____ (3) Entomology
BIO 4557 ____ (3) Ichthyology
BIO 4560 ____ (3) Herpetology

6-8 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
Chemistry & lab*

OR

CHE 2210 ____ (4) Quantitative Analysis (W)

Mathematics

MAT 1110 ____ (4) Calculus w/ Analytic Geometry I (ND)
STT 2810 ____ (3) Intro to Data Analysis & Statistical
Inference (ND, C)

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

D. Geography and Landscape Ecology Concentration: 12 semester hours

Students are encouraged to complete a minor in their chosen concentration by selection of one or two additional courses (consult advisor).

Required: GHY 1010 ____ (3) Introduction to Physical Geography

Choose any three of the following:

GHY 3100 ____ (3) Weather and Climate
GHY 3110 ____ (3) Vegetation, Soils, and Landforms
GHY 3310 ____ (3) Environmental Remote Sensing
GHY 4820 ____ (3) Geographical Hydrology

III. MINOR (optional)**IV. ELECTIVES (taken to a minimum of 128 hours for the degree) 19**

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