

I. GENERAL EDUCATION CURRICULUM..... 44
Chemistry 1101-1110 and 1102-1120 fulfill the Science Inquiry Perspective. Math 1110 fulfills the Quantitative Literacy requirement.

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

_____ 1040 _____ and 1050 _____ or 1060 _____; 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 46 semester hours of biology courses may be counted toward the BA Degree.

A. Biology Core Requirements: 8 semester hours (must be completed before taking any other biology courses)

BIO 1801 _____ (4) Biological Concepts I (Co: CHE 1101) AND BIO 1802 _____ (4) Bio Concepts II (Pre: BIO 1801 w/minimum "C")

B. Required Biology Course: 9 semester hours (Pre: BIO 1801 & 1802 required for all additional BIO courses)

BIO 2400 _____ (3) Genetics (Pre: CHE 1102, MAT 1025) OR BIO 2700 _____ (3) Human Gen (Pre: CHE 1102, MAT 1025)
BIO 3436 _____ (3) Introduction to Evolutionary Biology

and one of the following Senior Capstones: (Pre: Senior Standing; WID)

BIO 4501 _____ (3) Independent Research [CAP] BIO 4700 _____ (3) Seminar in Biological Science [CAP]
BIO 4910 _____ (3) Capstone Internship in Biology [CAP]

C. Additional Required Biology Courses: Choose 17 semester hours in courses numbered 2000 and above.

At least one course must be Junior Writing [WID] course. One course must be selected from each of the following areas:

(Any course used to meet a requirement above may not be used to meet a requirement here.)

Area A Cellular or Subcellular

BIO 2410 _____ (1) Genetics Lab (Pre/Co: BIO 2400/2700)
BIO 2600 _____ (3) Cell Biology (Pre: CHE 1102)
BIO 2610 _____ (1) Cell Biology Lab Pre: MAT 1025; Pre/Co: BIO 2600
BIO 3308 _____ (4) Microbiology (Pre: CHE 1102/1120)
BIO 3309 _____ (4) Developmental Biology
BIO 3800 _____ (4) Molecular Bio [WID] (Pre: CHE2201/2101; ENG 2001)
BIO 4564 _____ (4) Microscopy
BIO 4568 _____ (4) Immunology (Pre: BIO 2400/2700)

Area B Evolution or Ecology

BIO 2000 _____ (4) Introduction to Botany
BIO 2001 _____ (4) Introduction to Zoology
BIO 3302 _____ (4) Ecology
BIO 3312 _____ (3) Environmental Studies [WID] (Pre: ENG 2001)
BIO 3320 _____ (3) Air Pollution
BIO 4571 _____ (4) Plant/Insect Interaction
BIO 4601 _____ (4) Animal Behavior-Ethology)

Area C Anatomy or Physiology

BIO 3301 _____ (4) Human Sys Phys[WID] (Pre: CHE2201/2101; ENG 2001)
BIO 3314 _____ (4) Comparative Vertebrate Zoo [WID] (Pre: ENG 2001)
BIO 4555 _____ (4) Plant Physiology (Pre: CHE 1102/1120)
BIO 4563 _____ (3) Biology of Aging
BIO 4569 _____ (4) Invertebrate Zoology

Area D Biodiversity

BIO 2000 _____ (4) Introduction to Botany
BIO 2001 _____ (4) Introduction to Zoology
BIO 3304 _____ (4) Systematic Botany (Pre: BIO 2000)
BIO 3310 _____ (4) Marine Sciences
BIO 4551 _____ (4) Ornithology
BIO 4552 _____ (4) Entomology
BIO 4556 _____ (4) Mycology
BIO 4557 _____ (4) Ichthyology
BIO 4558 _____ (3) Taxonomy of the Fleshy Fungi
BIO 4559 _____ (4) Mammalogy
BIO 4560 _____ (4) Herpetology
BIO 4569 _____ (4) Invertebrate Zoology
BIO 4570 _____ (4) Parasitology

D. Required cognate courses: 31 semester hours

Chemistry

CHE 1101/1110 _____ (4) Intro to Chem I & lab
CHE 1102/1120 _____ (4) Intro to Chem II & lab (Pre: CHE 1101/1110)
CHE 2201/2203 _____ (4) Organic Chem I & lab (Pre: CHE 1102/1120)
CHE 2202/2204 _____ (4) Organic Chem II & lab (Pre: CHE 2201/2203 w/C-)

Mathematics

MAT 1110 _____ (4) Calc w/ Analytical Geometry I (Pre: MAT 1025 w/C-)
STT 2810 _____ (3) Introduction to Statistics (Pre: MAT 1010)

Physics or Geography (minimum 8 hours)

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

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

Major Requirements that count in Gen Education:		
Quantitative Lit	MAT 1110	4 s.h.
Science Inquiry	CHE 1101/1110	4 s.h.
	CHE 1102/1120	4 s.h.
Perspectives (depends on choices)	FL 1050	3 s.h.
Total Major hrs:	71	
Gen Ed-up to 15 hrs:	- 15	
Net Major hrs:	56	

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

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