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 ____
*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
BIO 2400 ____ (3) Genetics (Pre: BIO 1801, CHE 1102, MAT 1025) OR BIO 2700 ____ (3) Human Gen (Pre: BIO 1802, 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 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:

Area A Cellular or Subcellular
BIO 2400 ____ (3) Genetics (Pre: BIO 1801, CHE 1102, MAT 1025)
BIO 2410 ____ (3) Genetics Lab (Pre: BIO 2400/2700)
BIO 2600 ____ (3) Cell Biology (Pre: CHE 1102)
BIO 2610 ____ (3) Cell Biology Lab (Pre: MAT 1025; Pre: BIO 2600)
BIO 2700 ____ (3) Human Genetics (Pre: BIO 1802, CHE 1102, MAT 1025)
BIO 3308 ____ (4) Microbiology (Pre: CHE 1102/1120)
BIO 3309 ____ (4) Developmental Biology
BIO 3800 ____ (4) Molecular Bio [WID] (Pre: 1 sem organic CHE; 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]
BIO 3320 ____ (3) Air Pollution
BIO 4571 ____ (4) Plant/Insect Interaction in Terrestrial Ecosystems
BIO 4601 ____ (3) Animal Behavior-Ethology) [WID]

Area C Anatomy or Physiological
BIO 3300 ____ (4) Introduction to Anatomy
BIO 3301 ____ (4) Human Sys Phys [WID] (Pre: 1 sem org CHE; 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 ____ (3) Systematic Botany (Pre: BIO 2000)
BIO 3310 ____ (4) Marine Sciences
BIO 4551 ____ (3) Ornithology
BIO 4552 ____ (4) Entomology
BIO 4556 ____ (4) Mycology
BIO 4557 ____ (4) Ichthyology
BIO 4558 ____ (3) Taxonomy of the Fleshy Fungi
BIO 4559 ____ (3) Mammalogy
BIO 4560 ____ (3) 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)

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.

V. ELECTIVES (taken to total 128 hours for the degree) .................................................................................................................................................................................................................................................................5-13
2 semester hours of free electives must be outside the major discipline.