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

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

1040 ____ and 1050 ____ or 1060 ____; or higher level courses

*NOTE: Language 1010 and 1020 (or 1030) are prerequisites for the intermediate level courses.
F1 1050 or 1060 may be used in General Education Perspectives depending upon choices.

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/min grade “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 2012 ___ (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]
BIO 4700 ___ (3) Seminar in Biological Science [CAP]

C. Additional Required Biology Courses: Choose 17 semester hours in courses numbered 2000 and above. (Pre: BIO 1801 & 1802 for all BIO courses)

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/Cc: BIO 2400/2700)
BIO 2600 ___ (3) Cell Biology (Pre: CHE 1102)
BIO 2610 ___ (1) Cell Biology Lab Pre: MAT 1025; Pre/Cc: BIO 2600)
BIO 3308 ___ (4) Microbiology (Pre: BIO 2400/2600/2700;CHE 1102 & 1120)
BIO 3800 ___ (4) Molecular Bio [WID] (Pre: CHE2201/2101; RC 2001)
BIO 4001 ___ (3) Developmental Bio (Pre: BIO 2600; BIO 2400 or 2700)
BIO 4011 ___ (1) Dev Bio Smt (honors) (Pre: BIO 2600; 2400/2700;Co: BIO 4001)
BIO 4513 ___ (4) Plant Molecular Biology (Pre: BIO 3800; Sr. standing)
BIO 4564 ___ (4) Microscopy (Pre: Sr. standing)
BIO 4568 ___ (4) Immunology (Pre/Cc: BIO 2400; Sr. standing)
BIO 4572 ___ (3) Virology (Pre: BIO 2600; Sr. standing)

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: RC 2001)
BIO 3313 ___ (4) Global Change Ecology [WID] (Pre: RC 2001)
BIO 3315 ___ (3) Conservation Biology [WID] (Pre: RC 2001)
BIO 3320 ___ (3) Air Pollution Effects on Plants & People (Pre: Jr stdg)
BIO 4571 ___ (4) Plant/Insect Interaction in Terres Ecosys (Pre: Sr stdg)
BIO 4601 ___ (4) Animal Behavior-Ethology (Pre: Sr standing)

D. Required cognate courses: 31 semester hours

Chemistry
CHE 1101/1110 ___ (4) Introductory Chem I & lab
CHE 1102/1120 ___ (4) Introductory 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)
PHY 1830 may be used in General Education Perspectives

Area C Anatomy or Physiology
BIO 3301 ___ (4) Human Sys Phys [WID] (Pre: CHE2201/2101; RC 2001)
BIO 3314 ___ (4) Comparative Vertebrate Zoo [WID] (Pre: RC 2001)
BIO 4553 ___ (3) Biology of Aging (Pre: Sr standing)

Area D Biodiversity
BIO 2000 ___ (4) Introduction to Botany
BIO 2001 ___ (4) Introduction to Zoology
BIO 3304 ___ (4) Systematic Botany (Pre: BIO 2000)
BIO 4551 ___ (4) Ornithology (Pre: Sr. standing)
BIO 4552 ___ (4) Entomology (Pre: Sr. standing)
BIO 4556 ___ (4) Mycology (Pre: Sr. standing)
BIO 4557 ___ (4) Ichthyology (Pre: Sr. standing)
BIO 4558 ___ (3) Taxonomy of the Fleshy Fungi (Pre: Sr. standing)
BIO 4559 ___ (4) Mammalogy (Pre: Sr. standing)
BIO 4560 ___ (4) Herpetology (Pre: Sr. standing)
BIO 4569 ___ (4) Invertebrate Zoology (Pre: Sr. standing)

IV. MINOR REQUIRED............................................................................. 12-21
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)............................ 4-13
2 semester hours of free electives must be outside the major discipline.

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