2008-2009 (Spring 2009)

Bachelor of Science (BS) Non-teaching
Degree Code 203 *
Concentration Code 203A

I. CORE CURRICULUM ................................................................................................................................................................. 44
Either Chemistry 1101/1110 and 1102/1120 or Physics 1103-1104 will fulfill the science requirement. Math 1110 fulfills the math 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) ........................................................................... 77-78
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: 30-31 semester hours
   Required: 8 semester hours
   Choose any two of the following:     Choose one of the following:
   BIO 3308 _____ (4) Microbiology      BIO 3309 _____ (4) Developmental Biology
   BIO 4100 _____ (4) Cell Biology      BIO 3314 _____ (4) Comparative Vertebrate Zoology
   BIO 4568 _____ (4) Immunology      BIO 4569 _____ (4) Invertebrate Zoology
   BIO 4570 _____ (4) Parasitology

   Choose one of the following:     Choose one of the following:
   BIO 3301 _____ (4) Human Systems Physiology (W, ND)     BIO 3312 _____ (3) Environmental Studies (W, S)
   BIO 4555 _____ (4) Plant Physiology (W, ND, C)     BIO 3436 _____ (3) Introduction to Evol. Bio. (W, S, ND)

   At least one field course (minimum 3 semester hours) is required

C. Required cognate courses: 34 semester hours (12 hours of CHE or PHY and MAT are already counted in Core Curriculum.)
   Chemistry
   CHE 1101/1110 _____ (4) Intro. Chemistry I (ND) & lab
   CHE 1102/1120 _____ (4) Intro. Chemistry II (ND) & lab
   CHE 2201/2203 _____ (4) Organic Chemistry I & lab
   CHE 2202/2204 _____ (4) Organic Chemistry II & lab (W)
   CHE 4580 _____ (3) Biochemistry I

   Physics
   PHY 1103 _____ (4) General Physics I (ND)
   PHY 1104 _____ (4) General Physics II (ND)

   Mathematics
   MAT 1110 _____ (4) Calculus w/ Analytical Geom. I (ND)
   STT 2810 _____ (3) Introduction to Statistics (ND, C)

D. Required Electives: 13 semester hours
   6 semester hours in the sciences
   7 semester hours outside the sciences

III. MINOR (optional)

IV. ELECTIVES (taken to total a minimum of 128 hours for the degree) ................................................................................... 6-7
2 semester hours of free electives must be outside the major discipline.
Electives chosen in D above can be used.

Major Designators
2 Writing (W) ______ ______
1 Speaking (S) ______
Certified Proficiency in Communication (CPC) ______
Completion of the W and S courses in the major with a grade of "C" or better will meet the CPC.
Other Designators
4 Writing (W) ______ ______ ______ ______
4 Multi Cultural (MC) ______ ______ ______ ______
2 Numerical Data (ND) ______ ______
2 Computer (C) ______ ______
1 Cross Disciplinary (CD) ______