Bachelor of Science (BS)  
Degree Code: 604*  
Concentration: 604D  
Non-Teaching  

I. GENERAL EDUCATION ................................................................. 44
(SD 2400, FCS 2110 and PHL 2015 if taken for the major may fulfill GEN EDU: LG: Sustainability Global Change for 9 sh. OR TEC 2601 & ECO 2620 if taken for the major may fulfill GEN EDU: LG: Global Resources for 6 sh).

II. MAJOR REQUIREMENTS .......................................................... 71 - 72
2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in fulfillment of the major requirements. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

Required SD Core (25 sh)
- S D 2400 (3) Principles of Sustainable Development (F;S) (GEN EDU: LG: Sustainability & Global Change)
- S D 2600 (4) Science for Sustainability (F;S)
- S D 2800 (3) Environmental Justice & Sustainability (F)
- PHL 2015 (3) Environmental Ethics (F;S)
- S D 3100 (3) Principles of Anthropology (F;S)
- S D 3125 (3) Applied Farm Operations I (F;S) (Prerequisite/Corequisite: SD 3100)
- S D 3375 (3) Sustainability, Economics, and Development (F)
- S D 3800 (3) Classics in Sustainable Development (F) (WID) (Prerequisite: ENG 2001 or equivalent)
- S D 4550 (3) Senior Seminar (CAP) (F;S)

III. ENVIRONMENTAL STUDIES CONCENTRATION (46 - 49 sh)
No course used in above core or major requirements may be used in this concentration.

A. Required Environmental Studies Core (19 - 20 sh)
- PHY 1830 (3) The Physical Principles of Energy and Sustainability
- TEC 2601 (3) Energy Issues and Technology (GEN EDU: LG: Global Resources)
- BIO 3302 (4) Ecology
- GLY 3131 (3) Geochemistry (Prerequisites: GLY 2250, CHE 1101, CHE 1110 and MAT 1110, or permission of the instructor)
- TEC 2029 (3) Society and Technology
- STT 2820 (4) Reasoning with Statistics
- S D 3750 (3) Nature, Technology, & Environment (F) (Prerequisite: TEC 2029)
- P S 4670 (3) Environmental Politics

B. Electives (9 sh) Choose at least one course from each column.

Column A
- BIO 3302 (3) Ecology
  (Prerequisite: Math Placement or completion of MAT 0010)
- BIO 4550 (3) Nature Study
  (Prerequisite: Sr. standing; it’s with dept. consent)
- CHE 2550 (3) Intro to Environmental Chemistry
  (Prerequisites: CHE 1102 and CHE 1120)
- GHY 3110 (3) Vegetation, Soils & Landforms
  (Prerequisite: GHY 1010, or permission of the instructor)
- GHY 3130 (3) Geography of Biodiversity
- PHY 3140 (3) Environmental Physics
  (Prerequisite: PHY 1104 or PHY 1151)
- GLY 3131 (3) Geochemistry
  (Prerequisites: GLY 2250, CHE 1101, CHE 1110 and travel 310, or permission of the instructor)
- GLY 3703 (3) Issues in Environmental Geology
  (Prerequisite: one year sequence in natural science)
- GLY 4630 (3) Hydrogeology (Prerequisite: Sr. standing; it’s with dept. consent)
- GHY 4820 (3) Geographic Hydrology (Prerequisite: Sr. standing; it’s with dept. consent)

Column B
- COM 3177 (3) Environmental Communication
- ECO 2620 (3) Environmental & Resource Economic
  (GEN EDU: LG: Global Resources)
- FCS 2110 (3) Global Awareness: Ex Human Condit
  (GEN EDU: LG: Sustainability & Global Change)
- GHY 3320 (3) Environmental Issues in Appalachia
- HIS 3237 (3) Nature, Wilderness, & American Life
- HIS 3238 (3) America’s National Parks
- PLN 4460 (3) Planning for Sustainable Communities
  (Prerequisite: Sr. standing; it’s with dept. consent)
- P S 4721 (3) Human Rights
  (Prerequisite: Sr. standing; it’s with dept. consent)
- S D 2800 (3) Environ Justice & Sustainability (F)

C. Focus Area (12 sh)
The Focus Area is made up of courses that form a single, coherent emphasis relevant to the student’s area of interest such as Sustainable Agriculture, Renewable Energy Technology, Globalization and Development, Ecology, Environmental Policy and Politics, etc. (see samples on the SD website, www.sd.appstate.edu). Credit hours from study abroad, an internship, or an advanced internship may be used in the student’s Focus Area, as appropriate. Courses counted toward other major requirements may not be counted in the Focus Area. Your SD advisor must approve all courses for this requirement.

D. Skills Area (6 - 8 sh)
The Skills Area is made up of courses offered throughout the University that provide useful skills for Environmental Studies. (see samples on the SD website, www.sd.appstate.edu). Courses counted toward other major requirements may not be counted in the Skills Area. Your SD advisor must approve all courses for this requirement.

IV. MINOR (Optional) (9 sh of a minor must be completed at Appalachian)

IV. FREE ELECTIVES (taken to total 122 sh for the degree) ......................................................... 7 - 16
2.0 free electives outside the major discipline are required.

Total Major Hours: 71 - 72
Gen Ed up to: - 9
Net Major Hours: 62 - 63