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

I. GENERAL EDUCATION ........................................................................................................................................ 44  
(SD 2300, FCS 2110 and PHL 2015, and/or TEC 2029 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 .......................................................................................................................................... 69 - 72  

Ω. 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 (23 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)  
OR  
PHL 2015 ___ (3) Environmental Ethics (F;S)  
S D  3100 ___ (4) Principles of Agroecology (F;S)  
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  
OR  
TEC 2601 ___ (3) Energy Issues and Technology (GEN EDU: LG: Global Resources)  
BIO 3302 ___ (4) Ecology  
OR  
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 (GEN EDU: LG: Sustainability & Global Change)  
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; Jr’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 1610, or permission of the instructor)  
GHY 3130 ___ (3) Geography of Biodiversity  
GHY 3140 ___ (3) Environmental Physics  
(Prerequisite: PHY 104 or PHY 1151)  
GLY 3131 ___ (3) Geochemistry  
(Prerequisites: GLY 2250, CHE 1101, CHE 1110 and MAT 1110, 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; Jr’s with dept. consent)  
OR  
GHY 4820 ___ (3) Geographic Hydrology  
(Prerequisite: Sr. standing; Jr’s with dept. consent)  

Column B  
COM 3177 ___ (3) Environmental Communication  
ECO 2620 ___ (3) Environmental & Resource Economic  
(Prerequisites: LG: Global Resources)  
FCS 2110 ___ (3) Global Awareness: Ex Human Conditi  
(GEN EDU: LG: Sustainability & Global Change)  
GHY 3320 ___ (3) Environmental Issues in Appalachia  
HIS 2327 ___ (3) Nature, Wilderness, & American Life  
HIS 3238 ___ (3) America’s National Parks  
PLN 4450 ___ (3) Planning for Sustainable Communities  
(Prerequisite: Sr. standing; Jr’s with dept. consent)  
PLN 4460 ___ (3) Environmental Policy & Planning  
(Prerequisite: Sr. standing; Jr’s with dept. consent)  
PHL 2025 ___ (3) Environmental Ethics  
(Public Health)  
(GEN EDU: LG: Sustainability & Global Change)  
P S  4721 ___ (3) Human Rights  
(Prerequisite: Sr. standing; Jr’s with dept. consent)  
S D  2800 ___ (3) Envon 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.  

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E. 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.  

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

IV. FREE ELECTIVES (taken to total 122 sh for the degree). ........................................................................................................ 9 - 18  
2 sh of free electives outside the major discipline are required.