

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

Program of Study for Sustainable Development Majors Environmental Studies

- I. GENERAL EDUCATION** 44
 (SD 2400, 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
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 (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)

Major courses that may count in Gen Ed:
 SD 2400 (3) LG: Sustain & Global Change
 FCS 2110 (3) LG: Sustain & Global Change
 PHL 2015 (3) LG: Sustain & Global Change
 TEC 2029 (3) LG: Sustain & Global Change
 TEC 2601 (3) LG: Global Resources
 ECO 2620 (3) LG: Global Resources

Total Major Hours: 69 – 72
 Gen Ed up to: ____ - 9
 Net Major Hours: 60 - 63

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 ____ (4) Ecology
 (Prerequisite: Math Placement or completion of MAT 0010)
 BIO 4550 ____ (3) Nature Study
 (Prerequisite: Sr. standing; Jr's w/irh 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 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 w/irh dept. consent)
 OR
 GHY 4820 ____ (3) Geographic Hydrology (Prerequisite: Sr. standing; Jr's w/irh 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 4450 ____ (3) Planning for Sustainable Communities
 (Prerequisite: Sr. standing; Jr's w/irh dept. consent)
 PLN 4460 ____ (3) Environmental Policy & Planning
 (Prerequisite: Sr. standing; Jr's w/irh dept. consent)
 PHL 2015 ____ (3) Environmental Ethics
 (GEN EDU: LG: Sustainability & Global Change)
 P S 4721 ____ (3) Human Rights
 (Prerequisite: Sr. standing; Jr's w/irh 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.**

_____ (3) _____ (3) _____
 _____ (3) _____ (3) _____

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.**

_____ (3) _____ (3) _____
 _____ (3) _____ (3) _____

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.