

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

Program of Study for Sustainable Development Majors Environmental Studies

I. GENERAL EDUCATION (SD 2400, FCS 2110, PHL 2015, PHY 1830 and TEC 2029 up to 9 SH taken for the major may be used in GEN ED: ILE; TEC 2601 and ECO 2620 if taken for the major may be used in GEN ED: LSE; STT 2820 taken for the major may count in GEN ED: Quantitative Literacy) 44

II. MAJOR REQUIREMENTS 70 -73
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 (24 sh)

- S D 2400 (3) Principles of Sustainable Development (F;S) (GEN ED: ILE: Sustainability & Global Resources)
S D 2610 (3) Science for Sustainability (F;S)
S D 2700 (3) Development Theory and Practice (F)
S D 2800 (3) Environmental Justice & Sustainability (F)
OR
PHL 2015 (3) Environmental Ethics (F;S) (GEN EDU: ILE: Sustainability & Global Resources)
S D 3100 (3) Principles of Agroecology (F;S)
S D 3125 (3) Applied Farm Operations I (F;S) (Prerequisite/Corequisite: SD 3100)
S D 3800 (3) Classics in Sustainable Development (F) (WID) (Prerequisite: RC 2001 or equivalent)
S D 4550 (3) Senior Seminar (CAP) (F;S)

Major courses that may count in Gen Ed:
SD 2400 (3) ILE: Sustain & Global Resources
FCS 2110 (3) ILE: Sustain & Global Resources
PHL 2015 (3) ILE: Sustain & Global Resources
PHY 1830 (3) ILE:Sustain & Global Resources
TEC 2029 (3) ILE: Sustain & Global Resources
TEC 2601 (3) Liberal Studies Experience
ECO 2620 (3) Liberal Studies Experience
STT 2820 (4) Quantitative Literacy
Total Major Hours: 70 - 73
Gen Ed up to: -19
Net Major Hours: 51 - 54

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 (16 sh)

- PHY 1830 (3) The Physical Principles of Energy and Sustainability (Gen Ed: ILE: Sustainability & Global Resources)
OR
TEC 2601 (3) Energy Issues and Technology (Gen Ed: Liberal Studies Experience)
TEC 2029 (3) Society and Technology (Gen Ed: ILE: Sustainability & Global Resources; Social Science Designation)
STT 2820 (4) Reasoning with Statistics (Gen Ed: Quantitative Literacy)
S D 3750 (3) Nature, Technology, & Environment (F) (Prerequisite: TEC 2029)
P S 4670 (3) Environmental Politics

B. Electives (12 - 13 sh) Choose at least one course from each column.

Column A

- BIO 3302 (3) Ecology (Prerequisite: BIO 1801; Math Placement or completion of MAT 0010)
BIO 4550 (3) Nature Study (Prerequisite: BIO 1801; Sr. standing; Jr's w/irh dept. consent)
CHE 2550 (3) Intro to Environmental Chemistry (Prerequisites: CHE 2101 and CHE 2102 or CHE 2201 and CHE 2203)
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 3117 (3) Environmental Communication
ECO 2620 (3) Environmental & Resource Economic (GEN EDU: Liberal Studies Experience; SSD)
FCS 2110 (3) Global Awareness: Ex Human Condit (GEN EDU: ILE: Sustainability & Global Resources)
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: ILE: Sustain & Global Resources)
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)

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.

_____ (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). 5 - 27
2 sh of free electives outside the major discipline are required. 122