Environmental Studies Certificate/University of Missouri

The Environmental Studies Certificate is 15 credit hours minimum of coursework focused on environmental topics. It is available to all MU majors, but because the certificate's goal is to create a complementary educational experience, students need to select coursework outside of their major. There are two tracks for the certificate: **Natural Dimensions** for non-science majors and **Social Dimensions** for science majors. In general, students with majors in Business, Humanities, Journalism, Social or Behavioral Sciences, Mathematics, or non-science Education majors will pursue the Natural Dimensions track, while students with majors in Natural Sciences, Engineering, or science Education will pursue the Social Dimensions track.

- Two introductory courses numbered 1000 level or above (6 hours minimum)
- Ag Econ 2070 or Nat R 2160 (3 hours)
- Two upper-level courses numbered 2000 level or above from the approved list (6 hours minimum)

### Certificate Plans for Non-Science Majors

**Basic Certificate**
- Geol 1200 Environmental Geology (4)
- Nat R 1060 Ecol & Conserv Living Resources (3)
- Ag Econ 2070 or Nat R 2160 (3)
- Geol 2300 Earth Systems & Global Change (3)
- Atm Sci/Geog 3600 Climates of the World (3)

**Global Processes & Change**
- Atm Sci/Geog 1050 Intro Meteorology (3)
- Geol 1200 Environmental Geology (4)
- Env Sc 3290 Soils & Environment (3)
- Geol 2300 Earth Systems & Global Change (3)
- Atm Sci/Geog 3600 Climates of the World (3)

**Soils & Water Quality**
- Chem 1100 General Chem (3)
- Soil 2100/2106 Intro to Soils and Lab (5)
- Env Sc 3290 Soils & Environment (3)
- Geol 2450 Global Water Cycle (3)
- F W 3400 Water Quality & Nat Resource Mangmt (3)

**Plant Diversity**
- Bio Sc 1200 Botany with Lab (5)
- Geog 4620 Biogeography (3)
- Bio Sc 3210 Plant Systematics (4)

**Development Impacts**
- Chem 1100 General Chemistry (3)
- Soil 2100/2106 Intro to Soils and Lab (5)
- Env Sc 3290 Soils & Environment (3)
- Plnt Sc 2254 Landscape Design with Lab (3)
- Forest 3290 Urban Forestry (req consent) (2)

**Hands-on Sustainability**
- Ag S M 1040 Physical Principles for Agric Appl (4)
- Ag S M 2320 Internal Combustion Power (3)
- Ag Econ 2070 or Nat R 2160 (3)
- Ag S M 2220 Agric & Industrial Structures (3)
- Ag S M 4140 Electricity: Wiring & Equipment (3)

**Energy & Materials**
- Geol 1200 Environmental Geology (4)
- Ag S M 1040 Physical Principles for Agric Appl (4)
- Ag Econ 2070 Environmental Econ & Policy (3)
- Geol 2600 Mineral & Energy Resources of the Earth (3)
- Ag S M 2320 Internal Combustion Power (3)

### Certificate Plans for Science Majors.

**Basic Certificate**
- Rur Soc1120 Population & Ecology (3)
- Geog 2660 Environmental Geography (3)
- Env St 2110 Environmental Sustainability (3)
- Hist 4440 History of the American Environment (3)
- Geog 4560 Resources & Indigenous Peoples (3)

**Environmental Policy**
- Pol Sc 1100 American Government (3)
- Rur Soc 1120 Population & Ecology (3)
- Pol Sc 3000 Introduction to Political Research (3)
- Hist 4440 History of the American Environment (3)
- Nat R 4353 Natural Resource Policy Admin (3)

**Sustainable Lifestyles**
- Arch St 1600 Fundamentals of Environmental Design (3)
- Nutr S 1340 Nutrition & Fitness (3)
- Psych 2210 Mind, Brain & Behavior (3)
- Rel St 3230 Buddhism & Environmental Ethics (3)
- Fin Pln 4380 Assessing the American Dream (3)

**Business & Economics**
- Econom 1014 Principles of Microeconomics (3)
- Acctcy 2010 Introduction to Accounting (3)
- Ag Econ 2070 Environmental Economics & Policy (3)
- Mangmt 3000 Fundamentals of Management (3)
- Rur Soc 4370 Environmental Sociology (3)

**Environmental Justice & Ethics**
- Phil 1100 Introduction to Ethics (3)
- Ru Soc 1120 Population & Ecology (3)
- Soc 2200 Social Inequalities (3)
- Rel St 3230 Buddhism & Environmental Ethics (3)
- Geog 4560 Resources & Indigenous Peoples (3)

**Cities & the Built Environment**
- Geog 1840 Mapping the Environment (3)
- Geog 2720 Urban Geography (3)
- Ag Econ 2070 or Nat R 2160 (3)
- A H & A 3720 Cities in the Western Imagination (3)
- Sociol 3000 Urban Sociology (3)

**Environmental Education**
- Theatr 1400 Acting for Non-Majors (3)
- T D P 2000 Inquiry into Learning I (3)
- Ag Econ 2070 or Nat R 2160 (3)
- HDFS 2400 Principles of Human Development (3)
- P R T 3231 Principles of Outdoor Recreation (3)