

Environmental Studies Major Checklist

To obtain a BA, students must satisfy the following:

- Envr 201, *Introduction to Environmental Studies*
- Envr 230, *Environmental Economics* (requires Econ 101)
- Envr 269, *Environmental Ethics*
- Envr 362, *Environmental Law and Policy* (requires Envr 201 or Plsc 260)
- Environmental Life Science requirement: Envr 199, Biol/Envr 109, Biol/Envr 111 or Biol 207 (Biol 207 requires Envr 201)
- Environmental Physical Science requirement: Chem/Envr 110, Chem 316 (requires Chem 205), or Envr 250
- Introductory Statistics requirement: Math 209 (preferred), Buad 201, Chem 300, Psyc 200, or equivalent course approved by ES coordinator
- Research Method requirement: Envr 260, Anth 211, Chem 301, Chem 302, Chem 303, Econ 340, Math 219, Math 324, Plsc 270 or Soc 211.
- Three units of electives chosen from the courses on the next page
 - 0.5 units of the electives must satisfy the experiential Learning requirement: Envr 320, Envr 388, or a supervised research experience approved by the ES coordinator.
- Envr 391, *Environmental Senior Seminar* (requires that the Statistics and the Research Methods requirements have been met)

To obtain a BS, students must ***in addition***

- Take two units in the natural sciences at the 300-level or higher, as well as either Math 212 or Math 232

The following courses involve significant overlap in content: BIOL 109/207; and MATH 304/324. Credit toward the major or minor can be given for only one course in each pair; for example, credit can be given for either BIOL 109 or BIOL 207 but not both.

Though it is not required, in choosing their electives students may pursue a degree with one of two Concentrations within the major: *Environmental Science*, and *Environment and Society*. To obtain the desired Concentration, at least three units of electives must be taken *within* the concentration.

Students may wish to specialize further by taking multiple electives within the following *focus areas* in the field of environmental studies; highly recommended courses within a particular area are underlined.

- *Environmental Geospatial Techniques* (GT): Envr 260, Envr 360, Envr 365
- *Conservation Biology* (CB): Envr 315, Envr 350, Biol 225, Biol 306, Biol 383, Geog 220, Geog 333, Math 304/324
- *Pollution Analysis and Control* (PAC): Chem 301, Chem 302, Chem 303, Chem 316, Math 304/324
- *Environmental Economics* (EE): Envr 330, Econ 211, Econ 340, Geog 370
- *Sustainable Development* (SD): Geog 345, Econ 211, Geog 320, Geog 333, Geog 370, Hist 390, Plsc 360

Environmental Studies Electives

ES minors must take at least one of the courses listed below.

ES majors *must* take at least one Research Methods course, plus an additional three units of electives (including other Research Methods courses). ES majors may obtain a *Concentration* by taking three units within one of the two indicated Concentrations.

Students may specialize by taking multiple electives within one of the indicated *focus areas*: Conservation Biology (CB), Environmental Geospatial Techniques (GT), Pollution Analysis and Control (PAC), Environmental Economics (EE), and Sustainable Development (SD). Underlined abbreviations (eg, CB) indicated courses that are strongly recommended if you are interested in that particular focus within ES.

The following courses involve significant overlap in content: BIOL 109/207; and MATH 304/324. Credit toward the major or minor can be given for only one course in each pair; for example, credit can be given for either BIOL 109 or BIOL 207 but not both.

Environmental Research Methods

- ❑ Envr 260, Intro to GIS (GT)
- ❑ Envr 360, Env Remote Sensing (GT)
- ❑ Envr 365, Advanced Spatial Analysis (GT)
- ❑ Anth 211, Intro to Ethnographic Field Methods*
- ❑ Chem 301, Quantitative Chemical Analysis* (PAC)
- ❑ Chem 302, Instrumentation & Spectroscopy* (PAC)
- ❑ Chem 303, Chemical Separations* (PAC)
- ❑ Econ 340, Econometrics* (EE)
- ❑ Math 219, Intro to Design of Experiments
- ❑ Math 304, Math Models Biology/Medicine* (CB,PAC)
- ❑ Math 324, Continuous Math Models* (CB,PAC)
- ❑ Soc 211, Sociological Research Methods*

Environmental Science Concentration

- ❑ Biol 108, Environmental Biology
- ❑ Biol/Envr 109, Introduction to Ecology
- ❑ Biol/Envr 111, Marine Biology of the Chesapeake
- ❑ Biol 207, Ecology
- ❑ Biol 225, Evolution (CB)
- ❑ Biol 306, Systematic Botany (CB)
- ❑ Biol 331, Molecular Ecology (CB)
- ❑ Biol 332, Tropical Marine Biology*
- ❑ Biol 333, Microbial Ecology*
- ❑ Biol 334, Oceanography*
- ❑ Biol 341 Animal Physiological Ecology
- ❑ Biol 344, Behavioral Ecology
- ❑ Biol 381 Advanced Topics in Ecology
- ❑ Biol 382 Conservation Biology
- ❑ Biol 383, Tropical Biology & Conservation (CB)
- ❑ Chem/Envr 110, Pollutants in the Environment
- ❑ Chem 316, Environmental Chemistry* (PAC)
- ❑ Envr/Geog 250, Earth Systems & Physical Geography
- ❑ Envr/Geog 315, Landscape Ecology (CB)
- ❑ Envr/Geog 350: Environmental Gradients (CB)
- ❑ Envr 320, 388, 390 (with Coordinator approval)

Environment and Society Concentration

- ❑ Econ 211, Econ Development Asia, Africa, Latin America* (EE,SD)
- ❑ Envr 330, Envmtl & Resource Econ Theory* (EE)
- ❑ Geog 345, Society, Economy and Nature (SD)
- ❑ Envr 320, 388, 390 (with Coordinator approval)
- ❑ Geog/Envr 215, Geography of the James
- ❑ Geog 220, Ecotourism
- ❑ Geog 320, Power, Space and Territory (SD)
- ❑ Geog 333: Geography of Amazonia (CB,SD)
- ❑ Geog 370, Geographies of Econ Development and Globalization (SD,EE)
- ❑ Hist 390, Food and Power in Africa and Asia (SD)
- ❑ Mgmt 348, Environmental Management
- ❑ Mgmt 353 Sustainability, Accountability, & Business
- ❑ Plsc 260, Public Policy
- ❑ Plsc 360, International Development Policy* (SD)
- ❑ Relg 374, Religion & the American Environment