

## Fall 2010 ‘Sustainability’ Courses

This document contains a listing of ‘sustainability-focused’ and ‘sustainability-related’ courses offered at UT Knoxville in fall 2010.

**Sustainability-focused courses** concentrate on the concept of sustainability, including its social, economic, and environmental dimensions, or examine an issue or topic using sustainability as a lens.

**Sustainability-related courses** incorporate sustainability as a distinct course component or module, or concentrate on a single sustainability principle or issue (socioeconomics, environment concerns, etc.).

This list was derived from the online UT Knoxville course catalog, available at <http://catalog.utk.edu/>. Course descriptions may be accessed by clicking on hyperlinks.

Please email comments and corrections by September 1, 2010 to [environment@utk.edu](mailto:environment@utk.edu)

### **Sustainability-Focused Courses**

#### **(AGEC) Agricultural Economics (047)**

- [AGEC 445 - Economics of Biomass for Renewable Energy](#)

#### **(ARCH) Architecture (133)**

- [ARCH 232 - Introduction to Architectural Technology](#) • [ARCH 341 - Environmental Control Systems I](#) • [ARCH 342 - Environmental Control Systems II](#) • [ARCH 372 - Architectural Design IV](#) • [ARCH 471 - Architectural Design V: Integration](#) • [ARCH 271 - Architectural Design I: Place](#) • [ARCH 431 - Structural and Mechanical Applications](#) • [ARCH 486 - Advanced Architectural Design: Sustainable Architecture](#)

#### **(CBE) Chemical and Biomolecular Engineering (223)**

- [CBE 481 - Green Engineering](#) • [CBE 488 - Honors: Design Internship in Green Engineering](#)

#### **(ECON) Economics (283)**

- [ECON 362 - Environmental and Natural Resource Policy](#) • [ECON 463 - Environmental Economics](#)

#### **(GEOG) Geography (415)**

- [GEOG 345 - Population and Environment](#)

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**(GEOL) Geology (424)**

- [GEOL 456 - Global Climate Change](#) \* [GEOL 103 - The Earth's Environments](#)

**(HRT) Hotel, Restaurant, and Tourism (514)**

- [HRT 224 - Tourism Management](#)

**(PHIL) Philosophy (745)**

- [PHIL 241 - Engineering Ethics](#) • [PHIL 242 - Contemporary Moral Issues](#) • [PHIL 243 - Business Ethics](#) • [PHIL 245/445 - Environmental Ethics/Advanced Environmental Ethics](#)
- [PHIL 393 - Global Justice and Human Rights](#)

**(PLSC) Plant Sciences (791)**

- [PLSC 250 - World Food and Fiber Plant Production](#) • [PLSC 341 - Integrated Turfgrass anagement and Environmental Benefits](#)

**(POLS) Political Science (801)**

- [POLS 471 - International Political Economy](#) • [POLS 473 - Negotiation, Bargaining, and Diplomacy](#)

**(SOCI) Sociology (915)**

- [SOCI 250 - Introduction to Global Studies](#) • [SOCI 260 - Introduction to the Study of Environmental Issues](#) • [SOCI 360 - Environment and Resources](#)

**Sustainability-Related Courses**

**(AGEC) Agricultural Economics (047)**

- [AGEC 315 - Agricultural and Environmental Law](#) • [AGEC 471 - Applied Policy Analysis for Environmental and Natural Resource Management](#)

**(ANTH) Anthropology (122)**

- [ANTH 415 - Environmental Anthropology](#) • [ANTH 432 - Anthropology of Warfare and Violence](#)

**(BCMB) Biochemistry and Cellular and Molecular Biology (188)**

- [BCMB 321 - Introductory Plant Physiology](#)

**(BIOL) Biology (190)**

- [BIOL 102 - Humankind in the Biotic World](#) • [BIOL 112 - General Botany](#) • [BIOL 250 - General Ecology](#)

**(BSE) Biosystems Engineering (196)**

- [BSE 416 - Environmental Hydrology](#)

**(BSET) Biosystems Engineering Technology (194)**

- [BSET 326 - GIS/GPS Applications in Agriculture and Environmental Science](#) • [BSET 414 - CAD Applications to Biosystems Engineering Technology](#) • [BSET 474 - Environmental Instrumentation and Monitoring](#)

**(CBE) Chemical and Biomolecular Engineering (223)**

- [CBE 475 - Applied Microbiology and Bioengineering](#)

**(CE) Civil Engineering (254)**

- [CE 381 - Environmental Engineering I](#) • [CE 401 - Review of Engineering Fundamentals](#) • [CE 407 - Honors Undergraduate Research](#) • [CE 409 - Special Topics](#) • [CE 440 - Civil Engineering Systems Design and Management](#) • [CE 481 - Environmental Engineering II](#) • [CE 482 - Environmental Engineering Laboratory](#) • [CE 486 - Air and Waste Management](#) • [CE 490 - Water Resources Applications](#) • [CE 210 - Geomatics](#)

**(EEB) Ecology and Evolutionary Biology (278)**

- [EEB 421 - Community Ecology](#) • [EEB 405 - Ecosystem Ecology Laboratory](#)

**(EPP) Entomology and Plant Pathology (341)**

- [EPP 410 - Diseases and Insects of Ornamental Plants](#)

**(ESS) Environmental and Soil Sciences (345)**

- [ESS 120 - Soils and Civilizations](#) • [ESS 434 - Environmental Soil Chemistry](#) • [ESS 444 - Environmental Soil Physics](#) • [ESS 454 - Environmental Soil Biology](#) • [ESS 462 - Environmental Climatology](#) • [ESS 493 - Problems in Environmental and Soil Sciences](#) • [ESS 334 - Soil Nutrient Management and Fertilizers](#)

**(FDST) Food Science and Technology (390)**

- [FDST 420 - Food Microbiology](#)

**(FORS) Forestry (396)**

- [FORS 331 - Wood Properties and Uses](#) • [FORS 414 - Tree Physiology](#) • [FORS 415 - Forest Conservation Workshop](#) • [FORS 215 - Forest Ecology](#)

**(GEOG) Geography (415)**

- [GEOG 131 - Geography of the Natural Environment I](#) • [GEOG 132 - Geography of the Natural Environment II](#)

**(GEOL) Geology (424)**

- [GEOL 455 - Basic Environmental Geology](#) • [GEOL 102 - Earth, Life, and Time](#) • [GEOL 108 - Honors: Earth, Life, and Time](#)

**(IE) Industrial Engineering (556)**

- [IE 304 - Introduction to Human Factors Engineering](#) • [IE 422 - Senior Problems Analysis](#)

**(IDS) Interior Design (582)**

- [IDS 200 - Human-Environment Systems](#)

**(JREM) Journalism and Electronic Media (592)**

- [JREM 451 - Environmental Writing](#)

**(MICR) Microbiology (684)**

- [MICR 470 - Microbial Ecology](#)

**(MSE) Materials Science and Engineering (638)**

- [MSE 470 - Environmental Degradation of Materials](#)

**(NURS) Nursing (720)**

- [NURS 432 - Health Promotion and Maintenance Strategies in the Community](#)

**(PLSC) Plant Sciences (791)**

- [PLSC 210 - Horticulture: Principles and Practices](#) • [PLSC 330 - Plant Propagation](#) • [PLSC 421 - Native Plants in the Landscape](#) • [PLSC 430 - Greenhouse Management](#) • [PLSC 457 - Weed Management](#) • [PLSC 470 - Professional Practices for the Green Industry](#)

**(RCS) Retail and Consumer Sciences (865)**

- [RCS 421 - International Retailing](#)

**(SOWK) Social Work (905)**

- [SOWK 314/317 - Human Behavior and the Social Environment/Honors: Human Behavior in the Social Environment](#)

**(SOC1) Sociology (915)**

- [SOC1 110 - Social Justice and Social Change](#) • [SOC1 464 - Urban Ecology](#) • [SOC1 465 - Social Values and the Environment](#)

**(WFS) Wildlife and Fisheries Science (993)**

- [WFS 301 - Ecology and Management of Wildlife Health](#)