

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

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 Management 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](#)