

**GRADUATE SUSTAINABILITY COURSES, 2015-2017**

Department	Course Number and Name	Course Description	Related (Include Sust.)	Focused (Sustainability Courses)
Chemical Engineering	CHE 5530 Alternative Fuels and Renewable Energy	Global energy outlook, available energy resources, energy sustainability, and fuel conversion technologies are discussed. Alternative energy options and their utilization technologies are covered. Associated environmental issues and relevant technologies are assessed. Special emphases are placed on alternative transportation fuels, renewable energies, energy efficiencies, and clean technologies.		X
Civil Engineering	CE 5530 Solid and Hazardous Waste Management	Identification, classification, and study of methods of characterization, handling, treating, managing, and disposal of solid/hazardous wastes regulated under federal and state guidelines and legislation, site remediation, green chemistry.	X	
Civil Engineering	CE 5540: Sustainable Construction	Investigations into green building construction practices and sustainability including use of novel or recycled materials, energy management and efficiency, water use/re-use, and indoor air quality.		X
Economics	ECON 5130 Economics of Environment	Economic analysis of such environmental matters as air, water, and noise pollution, population growth, and land use. Emphasis placed on use of economic theory and empirical research in evaluating environmental policies.	X	
Education - Administration	EDAD 7522: Education and Development	Examines major theories of educational development as an area contributing to the comprehensive national development, economically, socially, or culturally. Investigates areas such as historical and ethnographic studies of pre-colonial, colonial, and post-independence societies and explore how education and training can contribute as tools for contemporary change and sustainable socioeconomic development.	X	
Social and Public Health	EH 5200: Health and the Built Environment	Physiological and psychological aspects of exterior and interior environmental concerns. Emphasis on housing standards, building codes, vector control, separate concerns of urban and rural housing, migrant labor housing, mobile home construction, and mobile home park design. Includes institutional settings such as prisons, hospitals, and schools.	X	
Voioovich School of Leadership and Public Affairs	ES 5250: Watershed Management	Examine the major chemical and biological factors that affect watershed health and how to incorporate them into a watershed management plan in consultation with stakeholders. Discuss the importance of stakeholder engagement and identify key stakeholders and the key social, legal and economic issues that will affect management decisions.		X
Voioovich School of Leadership and Public Affairs	ES 5301: Global Water Resources	Explores global water use, scarcity, quality, and supply in the context of international development, climate change and land use.		X
Voioovich School of Leadership and Public Affairs	ES 5832: Sustainability Implementation	Critical analysis of the Ohio University Sustainability Plan, exploration of contemporary activism approaches, and implementation of effective projects and feasibility studies to advance institutional sustainability efforts		X
Voioovich School of Leadership and Public Affairs	ES 6820: Ecology and Environmental Issues	Interdisciplinary, graduate-only offering of a systems approach to an ecology course, focusing on the human-environment relationship.	X	
Voioovich School of Leadership and Public Affairs	ES 6830: Concepts in Environmental Sustainability	Examines global and regional environmental issues and considers the scientific basis for policy options. Concepts and discussion of environmental sustainability.		X
Voioovich School of Leadership and Public Affairs	ES 6831: The Politics of Sustainability	An introduction to sustainability assessment theory and application with special reference to the majors, degree programs, and career aspirations of the students in this practicum-style course. Class culminates in working with a local client to perform a sustainability assessment and, with this client in mind, analyzing, contextualizing, and writing up results and implications of the assessment		X
Voioovich School of Leadership and Public Affairs	ES 6840: Environmental Leadership	Examines the issues and challenges associated with environmental leadership. The course will explore how citizens, government, and environmental professionals can work collaboratively to address environmental issues at the local, state and national levels. Emphasis will be given to leadership in environmental policy, advocacy and science.	X	
Voioovich School of Leadership and Public Affairs	ES 6900: Special Topics, Global Environmental Politics	Topics vary by instructor	X	
Geography	GEOG 5310: Geography of Africa	Course examines physical and human geographies of Africa as well as geographic approaches to human-environment interactions. Topics include sustainable resource use, health and development, rural livelihood systems, roots of conflict and Africa in the world economy.	X	
Geography	GEOG 5450: Gender, Environment and Development	Explores frameworks linking gender and the environment and examines how they have influenced the practice of development in various geographic contexts. Case studies from Africa, USA, Latin America, and Asia. Topics include gendered access to resources, health and inequality, men and masculinities, the body and the environment, non-governmental organizations, and grass root organizing.	X	
Geography	GEOG 5460 Environmental Law	Legal aspects of both individual environmental and societal environmental rights and duties with respect to constitution, private property, nuisance, negligence, statutes, regulatory agencies, and court decisions. Emphasis on case study of federal, state, and local laws that shaped existing law and those that are likely to shape future legislative and administrative action.		X
Geography	GEOG 5470: Natural Resource Conservation	Themes in American environmental history, resource conservation and management, and contemporary environmentalism.		X
Geography	GEOG 5500: Land Use Planning	Fundamentals of land use planning are explored. Examines traditional and innovative approaches to land use planning and its influence on the physical forms of our cities and environment, community development, human health, growth management, and sustainability. Reviews land-use planning tools and techniques utilized at the local, regional, and state level of government including plan-making processes, zoning, subdivision regulations, environmental management, smart growth, urban design, and land-use suitability.	X	
Geography	GEOG: 5530: Environmental Planning	An introduction to the use of science in environmental decision-making directed toward the analysis of land development policies, the utility of assessment methods to understand environmental change and the application of management strategies to promote environmental sustainability at local and regional scales.		X
Geography	GEOG 5560: City and Environment	Examination of historical and present-day environmental impacts of urban and suburban expansion in a North American context.	X	
Geography	GEOG 6010: Seminar in Meteorology/Global Climate Change	Topics vary by instructor	X	
Geography	GEOG 6500: Seminar on Environmental Justice	In this seminar environmental justice will be examined in both theory and praxis. Our discussions will range from contested ideas and discourses about environmental justice, to more grounded examples of political movements that seek to contest (in)justice in both urban and rural environments. Specific topics will likely include the conceptual genesis of environmental/social justice movements, distributional inequity of toxics proximity in poor/minority communities, overcoming procedural inequities of white privilege, negotiating urban amenities like forests and parks, overcoming urban food deserts through enhanced food security, the rights of nonhuman species to the city, among other topics.		X
Environmental and Plant Biology	PBIO 5330: Resoration Ecology	Understand the philosophies, challenges, principles, and methods of ecological restoration. Course will discuss several scales of restoration (organism to landscape), but emphasis will be placed on a holistic approach to terrestrial ecosystem restoration.	X	
Political Science	POLS 5840: The Politics of Sustainability	Political questions are interwoven throughout the discourse and practice of sustainability. Is there a difference between sustainability and sustainable development? Is environmental sustainability the paramount goal, or should natural capital be sacrificed to pursue economic prosperity and social equity? Analyzes the inherent ambiguities of the three dimensions of sustainability—environmental, economic and social sustainability—and the political challenges associated with achieving sustainability at the local, national and global scales.		X
Recreation and Sport Pedagogy	REC 5550 Principles of Ecotourism	Introduce students to both theory and practical applications of concepts surrounding ecotourism and sustainable development. An understanding of the benefits and weaknesses of ecotourism as a sustainable development approach is the focus of the course. Theory, practice, history, terminology and issues of ecotourism planning and management are examined. Additionally, the motives and behaviors of tourists, natural resources as attractions and destinations, social and resource responsibility and establishing policies and principles for sustainability are discussed.	X	
Human & Consumer Sciences	RFPD 6900 Special Topics in Retail Merchandising and Fashion Product Development Sustainability	Specific course content will vary with offering.	X	
Sociology and Anthropology	SOC 5810: Environmental Sociology	Examines the interaction between social systems and the natural ecosystems in which they reside. It considers the predominant cultural, demographic, economic, geographic, political, and social factors that modify and shape the environment and the human ecological footprint. Emphasis is on the prospects for the emergence of sustainable societies and links between environmental issues and conflict, development, globalization, inequality, social change, and social movements among others.		X
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