

ENVIRONMENTAL STUDIES (ENST)

ENST 201 Cultural Geography 3 Credit Hours

Overview of the major components of culture such as language, religion, agriculture, settlement patterns, and related landscape features in a spatial context. Emphasis on how various cultures perceive and interact with the environment. (F).

ENST 203 Weather and Climate 3 Credit Hours

The controls and conditions of Earth's weather and climate including atmospheric circulation, precipitation processes, severe weather, climatic regions, and climatic change. (F).

ENST 204 Landforms 3 Credit Hours

Processes and agents that shape the landscapes and landforms of the Earth's surface. The discussion of landforms is divided into two parts: (1) constructive processes and their spatial distribution and (2) gradational processes and their spatial distribution. (W).

ENST 300 Urban Geography 3 Credit Hours

The geography of human settlement and urbanization. Particular emphasis is placed on human transformation of the physical environment, and resource use throughout history from ancient civilizations to modern megalopolises. Universal urban challenges such as sprawl, pollution, congestion, crime, poverty, etc., are addressed. (W).

ENST 301 Concepts of Environmentalism 3 Credit Hours

Designed to identify the underlying concepts of any environmental issue. The course will demonstrate the interdisciplinary nature of environmental problems solving through current readings, classical monographs and films. Students will conduct a system analysis of a household and a local community. This course will not be open to students who take ENST 105. (W).

ENST 305 Env Instrumentation and Analy 3 Credit Hours

This course will survey the parameters which must be measured in order to properly assess the environment. Methods for the analysis of the biophysical as well as the social, psychological, and political environment will be studied. (W).

Prerequisite(s): ENST 301

ENST 310 Economic Geography 3 Credit Hours

Spatial aspects of the ways people make their living. Discussion of the spatial distribution of resources and wealth at various scales. Introduction of site selection and location analysis. (W).

ENST 312 Environmental Ethics 3 Credit Hours

The relationship of human beings to the non-human environment raises pressing moral and political issues. This course will use the theories and concepts of philosophical ethics to explore such questions as human obligations to non-human animals; the preservation of wilderness; balancing economic, aesthetic, and spiritual values; and the problems of pollution, urban sprawl, and ecological justice. (F, YR).

Prerequisite(s): PHIL 100 or PHIL 233 or PHIL 240* or CRJ 240 or ENST 105 or ENST 301

ENST 320 Global Climate Change 3 Credit Hours

This course explores concepts and current thinking on global climate change and environmental impacts. It covers the history of Earth's climate, causes of climate change and current research attempting to forecast change. The biotic, economic, and social implications of climate change are discussed. (AY)

ENST 325 Environmental Politics 3 Credit Hours

This course will examine the process of policy making on environmental and energy problems at the global level, at the national level, and at the local level. (AY).

ENST 326 Anth of Health and Environment 3 Credit Hours

Cultural conflicts over pollution, disease etiology, development and natural resources often originate and are played out in local ecosystems. Anthropologists are increasingly becoming involved as researchers, developers, and activists in these cultural strifes. This course reviews the work of environmental and medical anthropologists as well as other critical scholars who unravel the values, meanings and ideologies associated with ecological issues in given localities. Drawing on theoretical advances in critical medical anthropology, environmental anthropology and applied anthropology, the course seeks to improve the knowledge and abilities of student anthropologists in their environmental health work.

ENST 327 Michigan Geography 3 Credit Hours

A geographic study of the landforms, waterways, natural resources, landmarks and economic activities that contribute to the physical and cultural landscapes of Michigan. Population, industry, agriculture, recreation and tourism will all be considered. (W,S,YR)

ENST 330 Land Use Planning and Mgmt 4 Credit Hours

Environmental aspects of land use planning, park planning, and site planning. Consideration of soils, groundwater, topography, and sensitive natural features and their role in determining land-use suitability. Examination of the mechanics and effectiveness of the planning process. Lecture and recitation. (AY).

Prerequisite(s): ESCI 275 or (BIOL 130 and GEOL 118)

ENST 340 Remote Sensing 3 Credit Hours

This course explores the acquisition, processing, and visualization of remotely derived data, with a particular emphasis on local and environmental applications. ENST 340 covers concepts and foundations of aerial and orbital remote sensing, visual interpretation, reflectance and emission spectroscopy, active and passive sensors, topography, and digital image processing software and techniques.

Restriction(s):

Can enroll if Class is Junior or Senior or Graduate

ENST 351 Environmental Economics 3 Credit Hours

This course examines the economic aspects of pollution problems. Topics covered include the economic theory of externalities, the theory of the commons, the theory of public goods, and the optimum use of depletable natural resources. The role of cost-benefit analysis as an intricate part of the decision-making process will also be thoroughly examined. (AY).

Prerequisite(s): ECON 202

ENST 365 Environmental Psychology 3 Credit Hours

A survey of the contributions of the behavioral sciences to the understanding and solution of environmental problems that threaten our survival. Insights derived from psychology, anthropology, and computer sciences are discussed. Major topics include overpopulation, overconsumption, "future shock," cognitive limitations in our understanding of ecological-political systems, and the use of Skinnerian behavior control. (AY).

Prerequisite(s): PSYC 170 or PSYC 171

ENST 385 Environmental Internship 1 to 9 Credit Hours

A field assignment relating to the student's environmental interests. The student will work in an off-campus government or private business for a prescribed number of hours each week to be arranged by the advisor and employer. May be repeated up to three times. Written permission of instructor.

Restriction(s):

Can enroll if Class is Junior or Senior or Graduate

ENST 390 Topics in Environmental Stds 1 to 9 Credit Hours

Examination of problems and issues in selected areas of environmental studies. Title listed in the Schedule of Classes will change according to the content. Course may be repeated for credit when specific topics differ.

ENST 395 Sem on Environmental Issues 1 Credit Hour

Readings, discussions, and presentations which examine current environmental issues. One hour seminar. Written permission of instructor. (YR).

ENST 436 Human Ecology 3 Credit Hours

Deals with the forms and modes of change of social structure and culture, as affected by interactions with environment, population, and technology. Emphasis is given to territorially based social structures.

ENST 445 Environmental Law 3 Credit Hours

A survey of common law theories and analysis of environmental statutes from a functional perspective. The course also includes environmental law aspects of constitutional law, administrative law and criminal law, as well as the public trust doctrine and public lands. Student cannot receive credit for both ENST 350 and ENST/POL 445.

Restriction(s):

Cannot enroll if Class is Freshman or Sophomore

Can enroll if Level is Undergraduate

ENST 456 Ecological Economics 3 Credit Hours

A review of major theories and issues concerning the relationship between ecological and economic systems. Topics include these questions: What is the purpose of economics activity? How important is the preservation of the natural world compared to the production of economic goods? How do principles of social and intergenerational equity affect the use of resources and choice of goods to be produced? The course utilizes a transdisciplinary approach in the development of new models where conventional economics and ecology alone have been ineffective in addressing questions of sustainability and equity. (AY).

Prerequisite(s): (ECON 201* or ECON 202*) and ENST 301*

Restriction(s):

Can enroll if Class is Junior or Senior

Can enroll if Level is Undergraduate

ENST 467 Food Politics and Policy 3 Credit Hours

How do politics affect our food at the global, national, and urban/local scale? This course examines close historical relationships between politics and food; the politics of conventional agriculture and food policy; and alternative agricultural movements and food systems, with a particular emphasis on urban food policy and urban food systems. (AY)

ENST 474 Environmental Education 2 to 3 Credit Hours

An analysis of environmental education at elementary and secondary levels, particularly stressing the environment as a teaching resource. Community resources as they relate to environmental education are also investigated. (AY).

ENST 483 Justice, Crime and Environment 3 Credit Hours

This service-learning course focuses on environmental justice and law. Environmental Justice is defined as the fair treatment of all people with respect to the development, implementation, and enforcement of environmental laws. In the classroom, students learn the theory, history, and enforcement of environmental laws and regulations in Detroit, Michigan, and nationwide. In a required civic engagement project, students apply their substantive knowledge to solve local environmental problems. Through classroom learning and projects with community organizations, students connect law and justice concerns to Detroit's environmental problems.

Restriction(s):

Can enroll if Class is Junior or Senior

ENST 485 Seminar in Environ Topics 2 Credit Hours

A seminar course taken during the student's senior year to provide an opportunity for students with diverse environmental interests to interact and synthesize the information and skills acquired during their previous studies. (W).

ENST 486 Environmental Interpretation 2 to 3 Credit Hours

Course deals with the interpretation of the environment, its characteristics, and its presentation to school groups as well as to the general public. Intended to acquaint students with a variety of skills and techniques necessary for interpreting the environment to others. Extensive use is made of the UM-Dearborn Environmental Study Area. (AY).

ENST 487 Comparative Enviro Policy 3 Credit Hours

This course explores environmental policy as a result of political processes involving diverse participants and entailing movement through several stages ? from defining an issue as an environmental problem to placing it on political agenda and then receiving a response at domestic governmental or international levels. This course analyzes environmental issues from a cross-cultural and comparative perspective, with a particular attention given to political institutions, political change, levels of development, political culture, public participation, and international commitments that shape the nature and dynamics of environmental politics and policy in different countries.

Restriction(s):

Can enroll if Class is Junior or Senior

ENST 488 Env Lit & Reps of Nature 3 Credit Hours

An interdisciplinary study of the ways in which the relationship between "nature" and humankind has been represented in literature and other forms of cultural expression. Emphasis on American and British texts of the 19th centuries, but assigned materials may include readings from other cultures and historical periods.

Prerequisite(s): (COMP 106 or CPAS with a score of 40 or COMP 220 or COMP 270) and (ENGL 230 or ENGL 200 or ENGL 231 or ENGL 232 or ENGL 233 or ENGL 235 or ENGL 236 or ENGL 237 or ENGL 239)

ENST 490 Dir Research in Envir Studies 1 to 6 Credit Hours

This course will provide students with an opportunity to conduct an independent research investigation on topics in environmental studies under the direction of various faculty members. The results will be presented in a paper and public seminar. May be repeated.

ENST 491 Topics in Environmental St 3 Credit Hours

The examination of problems and issues in selected areas of environmental studies. The title listed in the Schedule of Classes will change according to the content. The course may be repeated for credit when the specific topic differs. Also offered for graduate credit. (OC).

ENST 491B Topics in Environmental Studies 3 Credit Hours

TOPIC: Comparative Environmental Policy. This course explores environmental policy as a result of political processes involving diverse participants and entailing movement through several stages—from defining an issue as an environmental problem to placing it on political agendas and then receiving a response at domestic governmental or international levels. This course will analyze various levels at which environmental issues occur and are being addressed politically.

ENST 497 Seminar in Environmental Sci 1 Credit Hour

Readings, discussions and presentation of research in selected areas of study. One hour seminar.

ENST 498 Independent Study 1 to 3 Credit Hours

Readings or analytical assignments in accordance with the needs and interests of those enrolled and agreed upon by the student and instructor, which shall not duplicate a formal course offering. Permission of instructor.

ENST 499 Independent Study 1 to 3 Credit Hours

Readings or analytical assignments in accordance with the needs and interests of those enrolled and agreed upon by the student and instructor, which shall not duplicate a formal course offering. Permission of instructor.

* An asterisk denotes that a course may be taken concurrently.

Frequency of Offering

The following abbreviations are used to denote the frequency of offering: (F) fall term; (W) winter term; (S) summer term; (F, W) fall and winter terms; (YR) once a year; (AY) alternating years; (OC) offered occasionally