Environmental Studies is an interdisciplinary field that explores the interconnection between humans and the natural environment. Modern environmental issues reflect the complex interactions of natural and social systems at global and local scales, and the resulting impacts on the Earth have led many to ask whether humankind has entered into a new epoch in the planet's history, one in which humans are now a key driver in the change of Earth systems.

The Environmental Studies program fosters the critical, integrative thinking required to better understand the complexities of this human-nature relationship and the resultant scales of impact, and to assess and develop solutions that meet intergenerational human needs without compromising the natural systems upon which humans depend.

The Environmental Studies program offers an undergraduate minor in Environmental Studies and several interdisciplinary courses for students interested in broadening their understanding of environmental issues. These courses often are team-taught by faculty from various areas of study.

The program in Environmental Studies, along with the Center for Environmental Studies, are administered jointly by the School of Humanities and the School of Architecture, with staff support and first point of contact in the School of Humanities.

Environmental Studies is not currently an academic program at the graduate level.

**Co-Directors and Co-Advisors**

Joseph A. Campana, Jr.
Richard R. Johnson

**Steering Committee**

James B. Blackburn
Dominic C. Boyer
Joseph A. Campana, Jr.
Richard R. Johnson
Julia K. Morgan

For Rice University degree-granting programs:
To view the list of official course offerings, please see Rice's Course Catalog (https://courses.rice.edu/admweb/!SWKSCAT.cat?p_action=cata)
To view the most recent semester's course schedule, please see Rice's Course Schedule (https://courses.rice.edu/admweb/!SWKSCAT.cat)
ENST 201 - THE SCIENCE OF CLIMATE CHANGE  
Short Title: SCIENCE OF CLIMATE CHANGE  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Distribution Group: Distribution Group III  
Credit Hours: 3  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Lower-Level  
Description: This undergraduate course will introduce students to the fundamentals of natural and anthropogenic climate change. After briefly reviewing Earth's composition and its fluid envelopes, we will cover the basic physics of the climate system, providing tools to understand weather and climate phenomena (e.g. monsoons, El Niño), the greenhouse effect, and climate feedbacks. Building on this understanding, a succinct tour of geologic history will help us paint a more complete picture of Earth's climate variations and how they affected human evolution and history. With this context, we will be able to judge the anomalous character of recent climate change, establish its anthropogenic nature, and discuss solutions to the current climate crisis. Students from any major are encouraged to enroll and engage on important topic. Cross-list: EEPS 107. Mutually Exclusive: Cannot register for ENST 201 if student has credit for EEPS 107.

ENST 202 - CULTURE, ENERGY, AND THE ENVIRONMENT: AN INTRODUCTION TO ENERGY HUMANITIES  
Short Title: CULTURE ENERGY & ENVIRONMENT  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Distribution Group: Distribution Group I  
Credit Hours: 3  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Lower-Level  
Description: Humanity faces extraordinary challenges in an era of climate change and energy transition. These challenges are not only technological but also questions of value, power, behavior, and understanding. This course draws upon new research across the arts, humanities and social sciences to help students better understand the cultural and social dimensions of our current patterns of energy use, their environmental impacts, and the possibility of new energy futures. Intended for both STEM majors and humanities and social science students. Cross-list: HUMA 202.

ENST 205 - RECKONING WITH THE ANTHROPOCENE  
Short Title: RECKONING W/ THE ANTHROPOCENE  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Distribution Group: Distribution Group I  
Credit Hours: 3  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Lower-Level  
Description: This course joins the ongoing effort to make sense of how humans have reshaped the planet and its ecosystems. It does so by focusing on how a key concept, the Anthropocene, has journeyed from the geological sciences to a wide array of disciplines and audiences. We'll explore how historians, critics, philosophers, journalists, scientists, activists, poets, novelists, filmmakers, and others are finding new ways to talk about how we got here and how we might contend with the possible futures that await us. We'll hone new skills for reading, writing, and thinking about changing environments. And together we’ll imagine the kind of communities we might create in response to a warming world.

ENST 210 - SUSTAINABLE FUTURES: AN EXPLORATION OF GLOBAL SUSTAINABILITY CHALLENGES AND SOLUTIONS  
Short Title: SUSTAINABLE FUTURES  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Credit Hours: 3  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Lower-Level  
Description: Sustainable Futures will explore a wide array of global sustainability challenges and solutions alongside significant trends and disruptive technologies that are shaping the future. Throughout the journey, discussions will be enhanced by drawing upon lessons from human exploration of analogous extreme environments in space – like Mars, the Moon, and low-earth orbit – as well as from terrestrial locales known as extreme environments. Sustainable Futures may feature an additional fee will be necessary.

ENST 238 - SPECIAL TOPICS  
Short Title: SPECIAL TOPICS  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Independent Study, Internship/Practicum, Laboratory, Lecture, Lecture/Laboratory, Seminar, Studio  
Credit Hours: 1-4  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Lower-Level  
Description: Topics and credit hours vary each semester. Contact department for current semester’s topic(s). Repeatable for Credit.
ENST 250 - UNDERSTANDING ENERGY: ENERGY LITERACY AND CIVICS
Short Title: UNDERSTANDING ENERGY
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Credit Hours: 3
Restrictions: Students with a class of Freshman may not enroll. Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students. Students in the Fall 2022 New UG Transfer or Fall 2022 UG New First Time cohorts may not enroll.
Course Level: Undergraduate Lower-Level
Prerequisite(s): or or
Description: Energy is a foundational driver of human development. Energy impacts our economy, politics, culture, and environment. In this course, students will learn the fundamentals of energy in the context of broader systems and will be asked to think critically about how and why we rely on particular energy sources. The course structure will be comprised of lectures and class discussions along with field trips to power plants, chemical plants, and/or refineries. This class is vital for students interested in the environment and/or the energy industry. First year Rice students may not enroll in this course. Formerly offered as HURC 302. Mutually Exclusive: Cannot register for ENST 250 if student has credit for HURC 302.
Course URL: understandingenergy.rice.edu (http://understandingenergy.rice.edu)

ENST 265 - SCIENCE FICTION AND THE ENVIRONMENT
Short Title: SCI FI AND THE ENVIRONMENT
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Distribution Group: Distribution Group I
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Lower-Level
Description: Examines the ways that science fiction has expressed and challenged ideas about nature, culture, society, and politics. Cross-list: ENGL 269.

ENST 281 - ENGINEERING SOLUTIONS FOR SUSTAINABLE COMMUNITIES
Short Title: ENGRG SUSTAINABLE COMMUNITIES
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Distribution Group: Distribution Group III
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Lower-Level
Description: Students will work in teams to develop sustainable solutions for energy or environmental problems affecting our Houston and Rice communities. Emphasis will be placed on the integration of engineering fundamentals with societal issues, environmental and safety considerations, sustainability and professional communications. Prerequisites: introductory engineering courses, or permission of instructor. Cross-list: CHBE 281.

ENST 301 - ENVIRONMENTAL JUSTICE
Short Title: ENVIRONMENTAL JUSTICE
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Distribution Group: Distribution Group I
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: The impacts of environmental turmoil, climate change, toxicity, pollution, biodiversity loss, and more increasingly impact all but rarely equally. To consider environmental justice in this course is to consider these differential impacts (and their relationship to race, gender, ethnicity, economics, region, and other factors) and possible responses and remedies to these inequities with respect to a range of communities and regions through a range of arts, media, cultural documents, and social phenomena.

ENST 302 - ENVIRONMENTAL ISSUES: RICE INTO THE FUTURE
Short Title: ENVIRON ISSUES: RICE IN FUTURE
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Laboratory
Distribution Group: Distribution Group III
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: Students use the campus as a laboratory for learning about sustainability through group projects to reduce Rice's environmental impact or resolve environmental issues. Cross-list: SOCI 304.

ENST 307 - ENERGY AND THE ENVIRONMENT
Short Title: ENERGY AND THE ENVIRONMENT
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: This course explores the physical principles of energy use and its impacts on Earth's environment and climate. Topics will include energy mechanics, climate change, and the environmental impacts and future prospects of various fossil fuel and alternative energy sources. Cross-list: CEVE 307, EEPS 307.

ENST 311 - TOPICS IN ENVIRONMENTAL JUSTICE
Short Title: TOPICS ENVIRONMENTAL JUSTICE
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: A variable topics seminar that takes an in depth approach to questions of environmental justice. Topics will vary from semester to semester and may include “Black and Green: Environmental Justice in the Afro-Americas” and others. Repeatable for Credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Short Title</th>
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<tbody>
<tr>
<td>ENST 312</td>
<td>JUSTICE IN THE FOOD SYSTEM</td>
<td>JUSTICE IN THE FOOD SYSTEM</td>
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<td>3</td>
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<td>ENST 313</td>
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<td>CASE STUDIES IN SUSTAIN DESIGN</td>
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<td>ENST 314</td>
<td>CULTURES AND MEDIA OF ENVIRONMENTAL HEALTH</td>
<td>CULTURE/MEDIA OF ENVIRONMENTAL HEALTH</td>
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<td>Distribution Group I</td>
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<td>ENST 315</td>
<td>ENVIRONMENTAL HEALTH</td>
<td>ENVIRONMENTAL HEALTH</td>
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<td>Distribution Group I</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
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<td>ENST 316</td>
<td>ENVIRONMENTAL FILM</td>
<td>ENVIRONMENTAL FILM</td>
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<td>3</td>
<td>Distribution Group I</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
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<tr>
<td>ENST 317</td>
<td>CASE STUDIES IN SUSTAINABILITY: THE HIGH PERFORMANCE BUILDING</td>
<td>CASE STUDIES IN SUSTAINABILITY: THE HIGH PERFORMANCE BUILDING</td>
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<td>Standard Letter</td>
<td>Seminar</td>
<td>3</td>
<td>Distribution Group I</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
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</tbody>
</table>

Description:
- "Justice in the Food System" takes an interdisciplinary approach to the critical examination of injustice in the United States food system, drawing from humanities and social science approaches and with special attention to environmental concerns. The overarching goal of this class is three-fold. First, to understand the structure of US food system and the ways that it is shaped by forms of power rooted in inequalities of race, class, and gender. Second, the course will introduce students to the concept of food justice and some of the key struggles of the food justice movement in the United States, as understood through lenses of land, labor, and agriculture. Third, students will draw from their structural understanding and exposure to varied critical perspectives to envision more just food futures and articulate these through a final project.

- "Case Studies in Sustainable Design" provides a means by which those with an interest in the building science entailed in the design of commercial, institutional, and residential structures can investigate common issues, obtain information, discuss local strategies, and otherwise address subjects relating to building or campus performance over its lifecycle. To develop an approach of taking an existing Rice University building and optimizing its use via "repositioning" or redesign the class will create an interdisciplinary forum where students of architecture, engineering (structural, mechanical, etc.), and human sciences will potentially collaborate with professional building consultants, materials manufacturers, contractors, developers, owners, and Rice campus facility managers Cross-list: ARCH 321. Graduate/Undergraduate Equivalency: ENST 613. Mutually Exclusive: Cannot register for ENST 613 if student has credit for ENST 613.

- "Case Studies in Sustained Design" provides a means by which those with an interest in the building science entailed in the design of commercial, institutional, and residential structures can investigate common issues, obtain information, discuss local strategies, and otherwise address subjects relating to building or campus performance over its lifecycle. To develop an approach of taking an existing Rice University building and optimizing its use via "repositioning" or redesign the class will create an interdisciplinary forum where students of architecture, engineering (structural, mechanical, etc.), and human sciences will potentially collaborate with professional building consultants, materials manufacturers, contractors, developers, owners, and Rice campus facility managers Cross-list: ARCH 321. Graduate/Undergraduate Equivalency: ENST 621. Mutually Exclusive: Cannot register for ENST 621 if student has credit for ENST 621.
ENST 350 - ENVIRONMENTAL INTERNSHIP
Short Title: ENVIRONMENTAL INTERNSHIP
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Internship/Practicum
Credit Hours: 1-6
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: Provides enrollment credit for approved internships with environmental organizations or agencies. Students must seek approval prior to beginning the internship. Weekly progress reports and a final paper are required. Instructor Permission Required.

ENST 391 - SPECULATIVE FUTURES
Short Title: SPECULATIVE FUTURES
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: Drawing from "CliFi," "Speculative Fiction," and global anthropological case studies, this course analyzes a series of potential futures as earthly conditions continue to be altered by human activity. Students will develop speculative future models through assessing climate conditions, population displacement, ethics, ecological transformations and human practices and values. Cross-list: ANTH 391.

ENST 400 - INDEPENDENT STUDY
Short Title: INDEPENDENT STUDY
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Independent Study
Credit Hours: 1-6
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
ENST 406 - INTRODUCTION TO ENVIRONMENTAL LAW
Short Title: INTRO TO ENVIRONMENTAL LAW
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: Introduction to Environmental Law is intended to introduce the student to the methods used by the United States and the international community to regulate and/or allocate air, water and land resources. A key focus of this course will be the emerging area of the law of sustainable development, including the implementation of full price costing, life cycle analysis, carbon cycle analysis, allocation of assimilative capacity and other similar issues. Cross-list: CEVE 406.

ENST 415 - THE ENVIRONMENTAL MOVEMENT
Short Title: THE ENVIRONMENTAL MOVEMENT
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: Examines the environmental movement in the U.S. and globally. After a historical overview, we will use a social movement perspective to examine mobilization, organizations and tactics, ideologies and identities, as well as exploring aspects of contemporary environmentalism (e.g. green building and slow food, wildlife management/biodiversity, sustainable development, environmental justice). Cross-list: SOCI 415.

ENST 437 - ENERGY ECONOMICS
Short Title: ENERGY ECONOMICS
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Prerequisite(s): ECON 301 or ECON 370
Description: Discussion of key aspects in the supply and demand of energy. Topics include optimal extraction of depletable resources, transportation, storage, end-use and efficiency, and the relationship between economic activity, energy, and the environment. Cross-list: ECON 437.

ENST 441 - GOVERNING THE ENVIRONMENTAL COMMONS
Short Title: GOVERNING ENVIRONMNTL COMMONS
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Prerequisite(s): POLI 395
Description: Common Property Resources (CPRs), such as fisheries, aquifers, and the Internet, appear in many guises and pose a fundamental problem for governing. Exploration of theoretical underpinnings for CPRs, their growing literature, and the political and economic institutions mediating CPR dilemmas. Included is an original research project in conjunction with the instructor. Cross-list: POLI 441.

ENST 445 - SEMINAR IN URBAN SUSTAINABILITY AND LIVABILITY RESEARCH METHODS AND APPLICATIONS
Short Title: URBAN SUSTAINABILITY SEMINAR
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Corequisite: ENST 446
Description: Seminar in the practice and techniques for student-led engaged research in urban sustainability and livability. Techniques and methods applied in actual urban settings, including an understanding of intentional design, the use of psycho-geographic mapping, human geography, and derives to understand urban communities. Content includes multifaceted exploration of sustainability. Instructor Permission Required. Repeatable for Credit.

ENST 446 - LAB IN ENGAGED URBAN SUSTAINABILITY AND LIVABILITY RESEARCH
Short Title: ENGAGED URBAN RESEARCH LAB
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture/Laboratory
Credit Hours: 3-4
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Corequisite: ENST 445
Description: Lab in the practice and techniques for student-led engaged research in urban sustainability and livability. Techniques and methods applied in actual urban settings, including an understanding of intentional design, the use of psycho-geographic mapping, human geography, and derives to understand urban communities. Content includes multi-faceted exploration of sustainability. Instructor Permission Required. Repeatable for Credit.
ENST 477 - SPECIAL TOPICS  
Short Title: SPECIAL TOPICS  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Laboratory, Lecture, Internship/Practicum, Seminar, Independent Study, Lecture/Laboratory  
Credit Hours: 1-4  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Upper-Level  
Description: Topics and credit hours may vary each semester. Contact Department for current semester's topic. Repeatable for Credit.

ENST 480 - ENVIRONMENTAL AND ENERGY ECONOMICS  
Short Title: ENVIRONMENTAL ECONOMICS  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Credit Hours: 3  
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.  
Course Level: Undergraduate Upper-Level  
Prerequisite(s): ECON 200 or ECON 301 or ECON 370  
Description: Uses economic theories of externalities and common property resources to analyze how markets, legal institutions, regulations, taxes and subsidies, and voluntary activity can affect the supply of environmental amenities, such as clean air, clean water, and wilderness areas. Also discusses methods for determining the demand for environmental amenities. Cross-list: ECON 480.

ENST 500 - INTRODUCTION TO THE ENVIRONMENTAL HUMANITIES  
Short Title: INTRO TO ENVIRO HUMANITIES  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: This seminar explores the "environmental humanities;" a wide range of approaches to the cultural, social, historical, and aesthetic dimensions of pressing ecological questions. Topics may include studies of plants, animals, and other creatures; biodiversity and extinction; energy humanities; environmental justice and environmental racism; climate and environmental histories; theories and philosophies of disaster; waste, toxicity, pollution; marine or blue humanities; religion and ecology; and many others. We will consider representative recent publications in the field as well as the research of scholars working here at Rice and far beyond. We will consider how to write about the environmental humanities, from scholarly publications in a range of fields to forms of public-facing writing on the subject. We'll consider strategies for teaching the environmental humanities, from individual assignments to the design of courses in the home disciplines of the participants. Coursework will include opportunities through the Center for Environmental Studies, the Environmental Studies minor (ENST), and the Mellon Foundation funded Diluvial Houston project at the Humanities Research Center. These opportunities may include: observing classes in the ENST minor; working on Cultures of Energy, a public facing platform for writing and activity about energy and the environment; and spring events at the Center for Environmental Studies, including a symposium.

ENST 513 - SEMINAR: TOPICS RELATED TO THE EARTH'S DEEP INTERIOR  
Short Title: SEM: EARTH'S DEEP INTERIOR  
Department: Environmental Studies  
Grade Mode: Satisfactory/Unsatisfactory  
Course Type: Seminar  
Credit Hours: 1-3  
Restrictions: Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: Seminar topics may vary. Readings and discussions about current topics related to the processes governing the Earth's deep interior. General themes include mantle convection, thermal evolution, and volatiles. Repeatable for Credit.

ENST 599 - DIRECTED READING IN ENVIRONMENTAL HUMANITIES  
Short Title: DIRECTED READING  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Independent Study  
Credit Hours: 3  
Restrictions: Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: A course for graduate students pursuing intensive semester-long study of a particular topic not included in the curriculum. Students must identify and receive the approval of a faculty member. Instructor and Department approval must be granted prior to registration. Instructor Permission Required. Repeatable for Credit. Instructor Permission Required. Repeatable for Credit.

ENST 601 - ENVIRONMENTAL HUMANITIES RESEARCH FORUM  
Short Title: ENVIRO HUMA RESEARCH FORUM  
Department: Environmental Studies  
Grade Mode: Satisfactory/Unsatisfactory  
Course Type: Research  
Credit Hours: 1-3  
Restrictions: Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: The Environmental Humanities Research Forum meets regularly to share research, teaching, and other activities in the environmental humanities with both members of the Rice community and invited guests. Evaluation is based on student participation, research and presentations. Repeatable for Credit. Department Permission Required. Repeatable for Credit.

ENST 613 - CASE STUDIES IN SUSTAINABLE DESIGN  
Short Title: SUSTAINABLE DESIGN  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: Cross-list: ARCH 613. Graduate/Undergraduate Equivalency: ENST 313. Mutually Exclusive: Cannot register for ENST 613 if student has credit for ENST 313.  
Course URL: www.arch.rice.edu/academics/current-courses (http://www.arch.rice.edu/academics/current-courses/)
ENST 621 - CASE STUDIES IN SUSTAINABILITY: THE HIGH PERFORMANCE BUILDING
Short Title: SUSTAINABILITY CASE STUDIES
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: The project-based seminar will provide a means by which all those with an interest in the building science entailed in the design of commercial, institutional, and residential structures can investigate common issues, obtain information, discuss local strategies, and otherwise address subjects relating to building or campus performance over its lifecycle. To develop an approach of taking an existing Rice University building an optimizing its use via "repositioning" or redesign the class will create an interdisciplinary forum where students of architecture, engineering (structural, mechanical, etc.), and human sciences will potentially collaborate with professional building consultants, materials manufactures, contractors, developers, owners, and Rice campus facility managers Cross-list: ARCH 621. Graduate/Undergraduate Equivalency: ENST 321. Mutually Exclusive: Cannot register for ENST 621 if student has credit for ENST 321.

ENST 646 - ADVANCED TOPICS IN BIOMEDICAL ANTHROPOLOGY
Short Title: ADV BIOMEDICAL ANTHROPOLOGY
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Seminar on contemporary research on the biomedical aspects of human health and disease. Includes topics from medical ecology and epidemiology. Cross-list: ANTH 646. Recommended Prerequisite(s): ANTH 381 or ANTH 581.

ENST 677 - SPECIAL TOPICS
Short Title: SPECIAL TOPICS
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Independent Study, Internship/Practicum, Laboratory, Lecture, Lecture/Laboratory, Seminar
Credit Hours: 1-4
Restrictions: Enrollment is limited to Graduate or Visiting Graduate level students.
Course Level: Graduate
Description: Topics and credit hours vary each semester. Contact department for current semester's topic(s). Repeatable for Credit.

Description and Code Legend
Note: Internally, the university uses the following descriptions, codes, and abbreviations for this academic program. The following is a quick reference:

Course Catalog/Schedule
• Course offerings/subject code: ENST

Department (or Program) Description and Code
• Environmental Studies: ENST

Undergraduate Minor Description and Code
• Minor in Environmental Studies: ENST

CIP Code and Description ¹
• ENST Minor: CIP Code/Title: 03.0103 - Environmental Studies

¹ Classification of Instructional Programs (CIP) 2020 Codes and Descriptions from the National Center for Education Statistics: https://nces.ed.gov/ipeds/cipcode/