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.

Minor

- Minor in Environmental Studies (ga.rice.edu/programs-study/departments-programs/natural-sciences/environmental-studies/environmental-studies-minor)

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

Director
Dominic Boyer

Environmental Studies Minor Advisor
Dominic Boyer

ENST Steering Committee
Jim Blackburn
Dominic Boyer
Richard Johnson
Jeff Kripal
Elizabeth Long
Julia Morgan
Timothy Morton
Evan Siemann
Albert Pope

To view the list of official course offerings, please see Rice’s Course Catalog (https://courses.rice.edu/admweb/ISWKSCAT.cat?p_action=cata)

To view the most recent semester’s course schedule, please see Rice’s Course Schedule (https://courses.rice.edu/admweb/ISWKSCAT.cat)

Environmental Studies (ENST)

ENST 100 - ENVIRONMENT, CULTURE AND SOCIETY
Short Title: ENVIRONMENT, CULTURE & SOCIETY
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: This introductory course in environmental studies helps students to better understand the complex interrelationship between human cultures and their social and physical environments. Lectures and assignments draw upon the methods and expertise of architecture, the humanities and the social sciences. This is a core course of Rice’s Environmental Studies minor. Cross-list: ARCH 105.

ENST 101 - THE EARTH
Short Title: THE EARTH
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Distribution Group: Distribution Group III
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Freshman, Junior, Sophomore or Senior. Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level

ENST 102 - HISTORY OF THE EARTH AND LIFE
Short Title: HISTORY OF THE EARTH & LIFE
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Distribution Group: Distribution Group III
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: Study of earth’s systems over the past 4.6 billion years. Topics include evolution of life, continents, ocean basins and climate. Cross-list: ESCI 102.

ENST 113 - ENVIRONMENTAL CRISIS SEMINAR
Short Title: ENVIRONMENTAL CRISIS SEMINAR
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Distribution Group: Distribution Group III
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: Discussion of environmental crises. Topics vary annually. Cross-list: EBIO 113, ESCI 113. Repeatable for Credit.
ENST 114 - NATURAL DISASTER SEMINAR
Short Title: NATURAL DISASTER SEMINAR
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Distribution Group: Distribution Group III
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: Seminar topics vary by term. Cross-list: ESCI 114. Repeatable for Credit.

ENST 117 - FRESHMAN SEMINAR IN LOCAL ENVIRONMENTAL SCIENCE RESEARCH
Short Title: FRESHMAN ENVIRONMENTAL SEMINAR
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Distribution Group: Distribution Group III
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: A 7-week seminar course to introduce freshmen perspective environmental science researches to the excitement of research at Rice and in the broader Houston area, and to provide context with which to think about facts presented in textbooks. Small groups will meet weekly with a graduate student or postdoctoral researcher to explore a published research article by a local team of researchers, gaining background information about the subject and exposure to the research techniques. In the final session, the group will tour the lab that produced the feature article. Additional tours and activities TBA. All first year non-transfer students are eligible to enroll in ENST 117 regardless of AP credit. This course meets in the second half of the semester and features research in the Environmental Science Major.

ENST 201 - THE SCIENCE BEHIND EARTH GLOBAL WARMING AND CLIMATE CHANGE
Short Title: SCIENCE BEHIND GLOBAL WARMING
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Distribution Group: Distribution Group III
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: The course will introduce the students to the science behind last century Earth global warming in the context of the past records of global Earth climate variability and forecast of Earth climate in the next century. Cross-list: EBIO 204. Repeatable for Credit.

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: Graduate level students may not enroll.
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 204 - ENVIRONMENTAL SUSTAINABILITY: THE DESIGN & PRACTICE OF COMMUNITY AGRICULTURE
Short Title: COMMUNITY GARDEN
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture/Laboratory
Distribution Group: Distribution Group III
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: The course introduces the fundamentals of community garden design and practice. Responsibilities will center on developing and improving the Rice Community Garden. A strong emphasis will be on learning and applying ecological principles to the practice of community agriculture. Class has required meetings outside of regular class time. Cross-list: EBIO 204. Repeatable for Credit.

ENST 265 - GREEN WORLDS: SCIENCE FICTION AND THE ENVIRONMENT
Short Title: SCI FI AND THE ENVIRONMENT
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: Examines the ways that science fiction has expressed and challenged ideas about nature, culture, society and politics and imagined alternative ‘green’ worlds. Will focus on authors such as Margaret Atwood, Octavia Butler and Paolo Bacigalupi: films such as "Wall-E" and "Avatar": and accessible secondary criticism. 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: Graduate level students may not enroll.
Course Level: Undergraduate Upper-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 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: Graduate level students may not enroll.
Course Level: Undergraduate Lower-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: Graduate level students may not enroll.
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, ESCI 307. Recommended Prerequisite(s): MATH 101 and PHYS 101 or PHYS 111.

ENST 313 - SUSTAINABLE DESIGN
Short Title: CASE STUDIES IN SUSTAIN DESIGN
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: This course will explore sustainable design from initial sustainable facility concepts and team organizations, to enlisting community support and process assessment. The course will develop into details about sustainable design, lessons learned, processes and outcomes. Space is limited and registration does not guarantee a space in this course. The final course roster is formulated on the first day class by the individual instructor. Cross-list: ARCH 313. Graduate/Undergraduate Equivalency: ENST 613. Mutually Exclusive: Credit cannot be earned for ENST 313 and ENST 613.

ENST 315 - ENVIRONMENTAL HEALTH
Short Title: ENVIRONMENTAL HEALTH
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Lecture
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): (BIOS 201 or BIOC 201) and (BIOS 202 or EBI0 202)
Description: An overview of environmental health issues including discussion of epidemiologic methods, illnesses caused or exacerbated by environmental exposures, and the role of research in driving effective policies to protect and promote public health. The class includes numerous guest lectures by area experts (physicians, researchers, community activists, policymakers and others); a bus tour featuring disproportionately affected neighborhoods as well as cutting-edge “green” initiatives; original student research projects; and an opportunity to address the Houston City Council. The dynamic between research and action, i.e., “making a difference,” is stressed. FORMERLY ENST 314.

ENST 316 - ENVIRONMENTAL FILM
Short Title: ENVIRONMENTAL FILM
Department: Environmental Studies
Grade Mode: Standard Letter
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: Explores the ways film represents the environment and environmental issues (food, water, energy, waste, environmental justice, sustainability), and both expresses and shapes environmental values. We will view and analyze a variety of genres, as well as reading supplementary material. Cross-list: SOCI 316.

ENST 321 - 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: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
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 manufacturers, contractors, developers, owners, and Rice campus facility managers Cross-list: ARCH 321. Graduate/Undergraduate Equivalency: ENST 621. Mutually Exclusive: Credit cannot be earned for ENST 321 and ENST 621.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Short Title</th>
<th>Department</th>
<th>Grade Mode</th>
<th>Course Type</th>
<th>Distribution Group</th>
<th>Credit Hours</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 322</td>
<td>CASE STUDIES IN SUSTAINABILITY: THE REGENERATIVE REPOSITIONING OF NEW OR EXISTING RICE CAMPUS BU</td>
<td>CASE STUDIES IN SUSTAINABILITY</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Seminar</td>
<td>Distribution Group III</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
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<tr>
<td>ENST 323</td>
<td>CONSERVATION BIOLOGY</td>
<td>CONSERVATION BIOLOGY</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Lecture</td>
<td>Distribution Group III</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
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<tr>
<td>ENST 331</td>
<td>ENVIRONMENTAL POLITICS AND POLICY</td>
<td>ENVIRONMENT POLITICS &amp; POLICY</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Lecture</td>
<td>Distribution Group II</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
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<tr>
<td>ENST 332</td>
<td>THE SOCIAL LIFE OF CLEAN ENERGY</td>
<td>SOCIAL LIFE OF CLEAN ENERGY</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Seminar</td>
<td>Distribution Group I</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
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<td>ENST 340</td>
<td>GLOBAL BIOGEOCHEMICAL CYCLES</td>
<td>GLOBAL BIOGEOCHEMICAL CYCLES</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>Distribution Group III</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
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<td>ENST 350</td>
<td>ENVIRONMENTAL INTERNSHIP</td>
<td>ENVIRONMENTAL INTERNSHIP</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Internship/Practicum</td>
<td>Distribution Group I</td>
<td>1-6</td>
<td>Graduate level students may not enroll.</td>
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<td>ENST 367</td>
<td>ENVIRONMENTAL SOCIOLOGY</td>
<td>ENVIRONMENTAL SOCIOLOGY</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Lecture</td>
<td>Distribution Group II</td>
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<td>Graduate level students may not enroll.</td>
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<td>ENST 368</td>
<td>LITERATURE AND THE ENVIRONMENT</td>
<td>LITERATURE &amp; THE ENVIRONMENT</td>
<td>Environmental Studies</td>
<td>Standard Letter</td>
<td>Lecture</td>
<td>Distribution Group I</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
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</tbody>
</table>
ENST 379 - LAB MODULE IN AQUATIC ECOLOGY WITH SCUBA  
Short Title: LAB MOD AQU ECOLOGY WITH SCUBA  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture/Laboratory  
Distribution Group: Distribution Group III  
Credit Hour: 1  
Restrictions: Graduate level students may not enroll.  
Course Level: Undergraduate Upper-Level  
Description: Students will learn some fundamentals of aquatic ecosystems and conduct lab exercises that involve SCUBA-based fieldwork in a nationally recognized freshwater dive site. Course has required meetings outside of regular class time. Prerequisites: LPAP 194 or proof of Open Water Scuba certification from a professional organization (e.g., PADI, NAUI). A course fee ranging from $300 to $535 is associated with the class. Please send all enrollment requests to Mariah McClarty, mam22@rice.edu and include the following information: major, year, scuba certification level and issuing professional organization, and a brief statement about why you want to take the course. You will be notified of enrollment decisions by December 5th. Department Permission Required. Cross-list: EBIO 379. Recommended Prerequisite(s): EBIO 213 and LPAP 194.

ENST 391 - SPECULATIVE FUTURES  
Short Title: SPECULATIVE FUTURES  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Graduate level students may not enroll.  
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: Graduate level students may not enroll.  
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: Graduate level students may not enroll.  
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: Graduate level students may not enroll.  
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 425 - ORGANIC GEOCHEMISTRY  
Short Title: ORGANIC GEOCHEMISTRY  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Credit Hours: 3  
Restrictions: Graduate level students may not enroll.  
Course Level: Undergraduate Upper-Level  
Description: This course covers the organic geochemistry of the natural environment. Topics include: production, transport, decomposition, and storage of organic matter in the marine and terrestrial environments, use of isotopes to track biogeochemical processes and natural and perturbed carbon cycle issues, including past and recent climate shifts. Cross-list: CHEM 425, ESCI 425.

ENST 437 - ENERGY ECONOMICS  
Short Title: ENERGY ECONOMICS  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Lecture  
Credit Hours: 3  
Restrictions: Graduate level students may not enroll.  
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: Graduate level students may not enroll.  
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 477 - SPECIAL TOPICS  
Short Title: SPECIAL TOPICS  
Department: Environmental Studies  
Grade Mode: Standard Letter  
Course Type: Internship/Practicum, Lecture, Laboratory, Seminar  
Credit Hours: 1-4  
Restrictions: Graduate level students may not enroll.  
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: Graduate level students may not enroll.  
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 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 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: Credit cannot be earned for ENST 613 and ENST 313.

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 manufacturers, contractors, developers, owners, and Rice campus facility managers Cross-list: ARCH 621. Graduate/ Undergraduate Equivalency: ENST 321. Mutually Exclusive: Credit cannot be earned for ENST 621 and ENST 321.

ENST 622 - CASE STUDIES IN SUSTAINABILITY: THE REGENERATIVE REPOSITIONING OF NEW OR EXISING RICE CAMPUS BU  
Short Title: CASE STUDIES IN SUSTAINABILITY  
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 manufacturers, contractors, developers, owners, and Rice campus facility managers Cross-list: ARCH 621. Graduate/ Undergraduate Equivalency: ENST 321. Mutually Exclusive: Credit cannot be earned for ENST 621 and 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.

Descriptions and Codes 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
Program Description and Code

• Environmental Studies: ENST

Undergraduate Minor Description and Code

• Minor in Environmental Studies: ENST