Environmental Economics and Policy (ENVECON)

Courses

ENVECON C1 Introduction to Environmental Economics and Policy 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Summer 2019 8 Week Session, Spring 2019, Fall 2018, Spring 2018
Introduction to microeconomics with emphasis on resource, agricultural, and environmental issues.
Introduction to Environmental Economics and Policy: Read More [+]

Rules & Requirements

Prerequisites: Mathematics 32
Credit Restrictions: Students will receive no credit for ECON C3 (http://guide.berkeley.edu/search/?P=ECON%20C3) after completing ECON 1 (http://guide.berkeley.edu/search/?P=ECON%201).

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Also listed as: ECON C3
Introduction to Environmental Economics and Policy: Read Less [-]

ENVECON 39D Freshman/Sophomore Seminar 1.5 - 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2009, Fall 2008
Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.
Freshman/Sophomore Seminar: Read More [+]

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1.5-4 hours of seminar per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.
Freshman/Sophomore Seminar: Read Less [-]

ENVECON 98 Directed Group Studies (for Lower Division Students) 1 - 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2001
Group study (or seminar) of a selected topic or topics in Environmental Economics and Policy.
Directed Group Studies (for Lower Division Students): Read More [+]

Rules & Requirements

Prerequisites: Consent of Instructor
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-3 hours of directed group study per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Directed Group Studies (for Lower Division Students): Read Less [-]
ENVECON 100 Microeconomic Theory with Application to Natural Resources 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Summer 2019 8 Week Session, Spring 2019, Fall 2018
Covers the basic microeconomic tools for further study of natural resource problems. Theory of consumption, production, theory of the firm, industrial organization, general equilibrium, public goods and externalities. Applications to agriculture and natural resources. Microeconomic Theory with Application to Natural Resources: Read More [+] 
Rules & Requirements
Prerequisites: C1 or Economics 1 or C3 and Mathematics 16A or consent of instructor
Credit Restrictions: Students will receive no credit for Environmental Economics 100 after completing Economics 100A, Economics 101A, or Undergraduate Business Administration 110.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Ligon and Rausser
Microeconomic Theory with Application to Natural Resources: Read Less [-]

ENVECON C101 Environmental Economics 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Summer 2019 8 Week Session, Spring 2019, Summer 2018 8 Week Session, Spring 2018
Environmental Economics: Read More [+]
Rules & Requirements
Prerequisites: 100, Mathematics 16A-16B, or Economics 100A or 101A
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Zilberman
Also listed as: ECON C125
Environmental Economics: Read Less [-]

ENVECON C102 Natural Resource Economics 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2018, Fall 2017, Fall 2016
Introduction to the economics of natural resources. Land and the concept of economic rent. Models of optimal depletion of nonrenewable resources and optimal use of renewable resources. Application to energy, forests, fisheries, water, and climate change. Resources, growth, and sustainability.
Natural Resource Economics: Read More [+]
Rules & Requirements
Prerequisites: 100, or Economics 100A or 100B
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Sunding
Natural Resource Economics: Read Less [-]
ENVECON 103 Intermediate Microeconomic Theory with Application to Natural Resources 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Prior to 2007
Covers intermediate microeconomic theory for further study of economic behavior as it relates to agriculture and natural resource problems. Theory of consumption, production, theory of the firm, industrial organization, general equilibrium, public goods and externalities. Applications to agriculture and natural resources. Intermediate Microeconomic Theory with Application to Natural Resources: Read More [+]

Rules & Requirements

Prerequisites: C1 or Economics 1 or C3 and Mathematics 16A or consent of instructor

Credit Restrictions: Students will receive no credit for Environmental Economics 103 after completing Environmental Economics 100, Economics 100A, Economics 101A, or Undergraduate Business Administration 110.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Ligon

Intermediate Microeconomic Theory with Application to Natural Resources: Read Less [-]

ENVECON C115 Modeling and Management of Biological Resources 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2018, Fall 2017, Fall 2015, Fall 2014

Modeling and Management of Biological Resources: Read More [+]

Rules & Requirements

Prerequisites: A course that includes differential and integral calculus

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Summer: 6 weeks - 6.5 hours of lecture and 4 hours of laboratory per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/ Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Getz

Also listed as: ESPM C104

Modeling and Management of Biological Resources: Read Less [-]
ENVECON C118 Introductory Applied Econometrics 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Summer 2019 8 Week Session, Spring 2019, Fall 2018
Formulation of a research hypothesis and definition of an empirical strategy. Regression analysis with cross-sectional and time-series data; econometric methods for the analysis of qualitative information; hypothesis testing. The techniques of statistical and econometric analysis are developed through applications to a set of case studies and real data in the fields of environmental, resource, and international development economics. Students learn the use of a statistical software for economic data analysis.
Introductory Applied Econometrics: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Sadoulet
Also listed as: IAS C118
Introductory Applied Econometrics: Read Less [-]

ENVECON 131 Globalization and the Natural Environment 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2013, Fall 2012, Fall 2011
An examination of the environmental effects of globalization. How has increased international trade, the integration of factor markets, and the adoption of international agreements affected the environment? Case studies include the environmental impact of GATT/WTO and NAFTA. Multi-disciplinary approach examines the actual laws and institutions and the economic theories of globalization, in addition to the empirical evidence of globalization's environmental effects.
Globalization and the Natural Environment: Read More [+]

Rules & Requirements

Prerequisites: Intermediate micro-economic theory or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Karp

Globalization and the Natural Environment: Read Less [-]

ENVECON 140AC Economics of Race, Agriculture, and the Environment 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2012, Fall 2011, Fall 2010
This course examines whether and how economic processes explain shifting formations of race and differential experiences among racial groups in U.S. agricultural and environmental systems. It approaches economic processes as organizing dynamics of racial differentiation and integration, and uses comparative experience among different racial and ethnic groups as sources of evidence against which economic theories of differentiation and integration can be tested.
Economics of Race, Agriculture, and the Environment: Read More [+]

Rules & Requirements

Prerequisites: 1, or one lower division course in a social science, or consent of instructor

Requirements this course satisfies: Satisfies the American Cultures requirement

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Romm

Economics of Race, Agriculture, and the Environment: Read Less [-]
ENVECON 141 Agricultural and Environmental Policy 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Summer 2019 8 Week Session, Fall 2018, Summer 2018 8 Week Session
This course considers the formation, implementation, and impact of public policies affecting agriculture and the environment. Economic approaches to public lawmaking, including theories of legislation, interest group activity, and congressional control of bureaucracies. Case studies include water allocation, endangered species protection, water quality, food safety, drainage, wetlands, pesticides, and farmworker safety. Emphasis on examples from California.
Agricultural and Environmental Policy: Read More [+]

Rules & Requirements

Prerequisites: 100 or Economics 100A or 101A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.
Agricultural and Environmental Policy: Read Less [-]

ENVECON 142 Industrial Organization with Applications to Agriculture and Natural Resources 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2015, Spring 2014, Spring 2013
Organization and performance of agricultural and resource markets. Conduct of firms within those markets, such as price competition, product differentiation, predatory pricing, vertical integration, dealer networks and advertising. The role of public policy in the markets. Case studies include oil cartel OPEC, agricultural cooperatives, vertical integration of food processors and franchising of fast-food chains. Discussion sections cover empirical applications of theory presented during lectures for current environmental and agricultural policies.
Industrial Organization with Applications to Agriculture and Natural Resources: Read More [+]

Rules & Requirements

Prerequisites: Environmental Economics and Policy 100 or Economics 100A or 101A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Environmental Economics and Policy/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.
Instructor: Villas-Boas
Industrial Organization with Applications to Agriculture and Natural Resources: Read Less [-]
ENVECON 143 Economics of Innovation and Intellectual Property 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Spring 2018, Spring 2017
This course addresses the economics of research and incentives for innovation including intellectual property rights. Topics include the standard modern economics of invention; modern intellectual property rights; innovation examples from agriculture, energy, pharmaceuticals, software, and electronics; the roles of the public and private sectors; innovation and market structure; the needs of the poor; and global intellectual property negotiations.
Economics of Innovation and Intellectual Property: Read More [+]

Rules & Requirements
Prerequisites: ENVECON 100 (http://guide.berkeley.edu/search/?P=ENVECON%20100) or ECON 100A (http://guide.berkeley.edu/search/?P=ECON%20100A) or ECON 101A (http://guide.berkeley.edu/search/?P=ECON%20101A) with minimum grade of C+

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Wright
Economics of Innovation and Intellectual Property: Read Less [-]

ENVECON 145 Health and Environmental Economic Policy 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2016, Fall 2015, Fall 2014
This course introduces students to key issues and findings in the field of health and environmental economics. The first half of the course focuses on the theoretical and statistical frameworks used to analyze instances of market failure in the provision of health and environmental goods. The second half focuses on policy-relevant empirical findings in the field.
Health and Environmental Economic Policy: Read More [+]

Rules & Requirements
Prerequisites: Intermediate microeconomics, 100, Economics 100 or 101A, and some statistics

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Anderson
Health and Environmental Economic Policy: Read Less [-]

ENVECON 147 Regulation of Energy and the Environment 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Spring 2017, Spring 2016
This is an applied economics course on government regulation of energy with an emphasis on policies that seek to mitigate the impact of energy production and consumption on the environment. The course is designed to help students make connections between economic concepts and real world regulatory policy questions and issues.
Regulation of Energy and the Environment: Read More [+]

Rules & Requirements
Prerequisites: Intermediate microeconomic theory and calculus

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Fowlie
Regulation of Energy and the Environment: Read Less [-]

ENVECON C151 Economic Development 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Fall 2018, Fall 2017
Problems of underdevelopment and poverty, policy issues, and development strategy.
Economic Development: Read More [+]

Rules & Requirements
Prerequisites: 100, Economics 100A or 101A

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer:
6 weeks - 8 hours of lecture and 2 hours of discussion per week
8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: de Janvry
Also listed as: ECON C171
Economic Development: Read Less [-]
ENVECON 152 Advanced Topics in Development and International Trade 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2018, Fall 2016, Fall 2015
This course discusses recent efforts to understand behavior and institutions in village economies, with particular attention paid to the importance of risk. Economic analysis of savings, consumption, insurance, production, trade, welfare distribution and institutions of villages in developing countries. Roughly equal parts of theory, evidence, and policy.

ENVECON 153 Population, Environment, and Development 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Spring 2014, Fall 2013
This course takes a quantitative, hands-on approach to understanding the challenges of feeding the human population of the planet Earth. We’ll discuss topics of nutrition, subsistence food consumption, and consumer demand for food to develop our understanding of the current situation. We’ll then develop both theories and computer models of population dynamics taking into account people’s decisions about childbearing, changes in mortality, and changes in food supply in order to learn something about the future of food. Focus throughout the course will be on developing practical tools to work with real-world data.

Prerequisites: 100 or Economics 100A

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Magruder

Rules & Requirements
Prerequisites: ENVECON 100 (http://guide.berkeley.edu/search/?P=ENVECON%20100) or ECON 100A (http://guide.berkeley.edu/search/?P=ECON%20100A) or ECON 101A (http://guide.berkeley.edu/search/?P=ECON%20101A), and STAT C8 (http://guide.berkeley.edu/search/?P=STAT%20C8) or INFO C8 (http://guide.berkeley.edu/search/?P=INFO%20C8) or COMPSCI C8 (http://guide.berkeley.edu/search/?P=COMPSCI%20C8), and MATH 54 (http://guide.berkeley.edu/search/?P=MATH%2054)

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
ENVECON 154 Economics of Poverty and Technology 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2014, Spring 2013, Spring 2012
Introduction to the economic framework underlying the use of technology to address rural poverty in developing countries. Analyzes the path of technology development from innovation and design to the adoption and use of technology in rural economies. Focuses on technologies related to agricultural production, processing, market access, value chains, and climate change.
Economics of Poverty and Technology: Read More [+]
Rules & Requirements
Prerequisites: Intermediate microeconomics
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Boettiger
Economics of Poverty and Technology: Read Less [-]

ENVECON 161 Advanced Topics in Environmental and Resource Economics 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2013, Fall 2012, Fall 2011
The roots of environmental and resource economics. Theories of land and resource rent. Models of optimal use of renewable and nonrenewable resources with applications to energy and timber. Balancing environmental and extractive values. Resources, growth, and sustainability. Special topic: the problem of global climate change.
Advanced Topics in Environmental and Resource Economics: Read More [+]
Rules & Requirements
Prerequisites: 100 or Economics 100A or 101A; 101 recommended
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Advanced Topics in Environmental and Resource Economics: Read Less [-]

ENVECON 162 Economics of Water Resources 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Spring 2018, Spring 2017
Urban demand for water; water supply and economic growth; water utility economics; irrigation demand; large water projects; economic impacts of surface water law and institutions; economics of salinity and drainage; economics of groundwater management.
Economics of Water Resources: Read More [+]
Rules & Requirements
Prerequisites: 100 or Economics 100A or 101A; 101 recommended
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Economics of Water Resources: Read Less [-]

ENVECON C175 The Economics of Climate Change 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2016, Fall 2015, Fall 2014, Fall 2013
The course will start with a brief introduction and evaluation of the scientific aspects behind climate change. Economic models will be developed to analyze the impacts of climate change and provide and critique existing and proposed policy tools. Specific topics studied are impacts on water resources and agriculture, economic evaluation of impacts, optimal control of greenhouse gases, benefit cost analysis, international treaty formation, discounting, uncertainty, irreversibility, and extreme events.
The Economics of Climate Change: Read More [+]
Rules & Requirements
Prerequisites: 106, 107, Economics 1, or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Aufhammer, Fisher
Also listed as: IAS C175
The Economics of Climate Change: Read Less [-]
ENVECON C176 Climate Change Economics
4 Units

Offered through: Agricultural and Resource Economics
Terms offered: Summer 2019 8 Week Session, Fall 2018, Fall 2017
This course is a self-contained introduction to the economics of climate change. Climate change is caused by a large variety of economic activities, and many of its impacts will have economic consequences. Economists have studied climate change for more than two decades, and economic arguments are often powerful in policy decisions. The course will familiarize students with these arguments and equip them with the tools to participate in discussions of climate change policy through an economic lens.

Course Objectives:
The course will start with a brief review of the science of climate change, discuss scenarios of economic growth and the greenhouse gas emissions caused by economic activities and investigate various emission reduction opportunities and their economic costs. A significant amount of time will be spent on studying the impacts of climate change, their economic evaluation and how adaptation can lower the costs of climate damages.

We will then study various theoretical frameworks economists have developed that answer the question how estimates about the costs and benefits of climate policy can be combined to find “good” climate policies. We then study three more specialized topics that turn out to be of great importance when analyzing climate change policy: first, how do we compare costs and benefits of generations that live many centuries apart? Second, how do we design climate policy when our projections of both the costs and the benefits of climate policy are highly uncertain? And third, how can equity considerations be accounted for in an economic assessment of climate change policy? The course will close with a look at international cooperation on climate policy and why it has been so difficult to agree on effective treaties that implement climate change policy.

Student Learning Outcomes:
Students will also have gained insight into the practical aspects of modeling the economics of climate change by building a simple integrated assessment model in Excel. They will be able to use that model to do simple analysis of climate change policy themselves.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

ENVECON C181 International Trade
4 Units

Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Fall 2018, Spring 2018
The theory of international trade and its applications to tariff protection. This course is equivalent to UGBA 118; students will not receive credit for both courses.

Course Objectives:
The course will start with a brief review of the science of trade, discuss scenarios of economic growth and the international trade and its implications for economic activities and investigate various trade opportunities and their economic costs. A significant amount of time will be spent on studying the impacts of international trade, their economic evaluation and how adaptation can lower the costs of trade damages.

We will then study various theoretical frameworks economists have developed that answer the question how estimates about the costs and benefits of international trade can be combined to find “good” international trade policies. We then study three more specialized topics that turn out to be of great importance when analyzing international trade policy: first, how do we compare costs and benefits of generations that live many centuries apart? Second, how do we design international trade policy when our projections of both the costs and the benefits of international trade are highly uncertain? And third, how can equity considerations be accounted for in an economic assessment of international trade policy? The course will close with a look at international cooperation on climate policy and why it has been so difficult to agree on effective treaties that implement international trade policy.

Student Learning Outcomes:
Students will also have gained insight into the practical aspects of modeling the economics of international trade by building a simple integrated assessment model in Excel. They will be able to use that model to do simple analysis of international trade policy themselves.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week


**ENVECON C183 Forest Ecosystem Management 4 Units**
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2016, Spring 2015, Spring 2014
Introduces students to concepts and quantitative tools needed for the sustainable management of multi-use forest ecosystems. Topics covered include: estimation of ecological, economic, and social values; construction of dynamic forest models, methods for optimal decision-making, and development of forest management plans. Application to current issues in temperate and tropical forest management are discussed. Quantitative, analytical, and communication skills are emphasized. Oral presentation required.
Forest Ecosystem Management: Read More [+]

**ENVECON 195 Senior Thesis 4 Units**
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2017, Fall 2016, Spring 2016
Writing of a thesis under the direction of member(s) of the faculty. Subject must be approved by faculty sponsor.
Senior Thesis: Read More [+]

**ENVECON 196 Senior Research Seminar 4 Units**
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2011
This course is intended as a capstone experience for undergraduates in the major coordinated by one faculty member with participation by others. Following presentations by faculty on researchable topics in their areas of expertise, students will develop ideas for a research paper and discuss in subsequent seminar sessions. Approximately the last five weeks of the semester will be devoted to student presentations of papers either already completed or in progress, and discussion by seminar participants and faculty.
Senior Research Seminar: Read More [+]

**ENVECON H196 Honors Research 4 Units**
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2016, Spring 2016, Fall 2015
Supervised independent honors research specific to aspects of environmental economics and policy, followed by a oral presentation and a written report.
Honors Research: Read More [+]

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**Hours & Format**

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 3 hours of laboratory per week

**Additional Details**

**Subject/Course Level:** Environmental Economics and Policy/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Potts

**Also listed as:** ESPM C183

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**Fall and/or spring:** 15 weeks - 0 hours of independent study per week

**Summer:** 6 weeks - 0 hours of independent study per week
8 weeks - 0 hours of independent study per week

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**Subject/Course Level:** Environmental Economics and Policy/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

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**Rules & Requirements**

**Prerequisites:** Student must be a senior with at least a 3.6 GPA in the Environmental Economics and Policy major

**Hours & Format**

**Fall and/or spring:** 15 weeks - 2 hours of seminar per week

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**Subject/Course Level:** Environmental Economics and Policy/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

**Instructor:** Fisher

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**Rules & Requirements**

**Prerequisites:** Senior standing in Environmental Economics and Policy and consent of instructor

**Repeat rules:** Course may be repeated for credit without restriction.

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**Hours & Format**

**Fall and/or spring:** 15 weeks - 0 hours of independent study per week

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**Subject/Course Level:** Environmental Economics and Policy/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

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**Rules & Requirements**

**Prerequisites:** Upper division standing. Eligibility restrictions related to GPA and unit accumulation. Open only to Environmental Economics and Policy majors in the College of Natural Resources

**Repeat rules:** Course may be repeated for credit without restriction.

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**Hours & Format**

**Fall and/or spring:** 15 weeks - 4 hours of independent study per week

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**Subject/Course Level:** Environmental Economics and Policy/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.
ENVECON 197 Field Study in Environmental Economics and Policy 1 - 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Fall 2016, Summer 2016 10 Week Session, Spring 2016
Supervised experience in off-campus organizations relevant to specific aspects of environmental economics and policy. Regular individual meetings with faculty sponsor and written reports required.
Field Study in Environmental Economics and Policy: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer: 8 weeks - 1-3 hours of independent study per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Field Study in Environmental Economics and Policy: Read Less [-]

ENVECON 198 Directed Group Studies for Advanced Undergraduates 1 - 3 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2016, Fall 2015, Spring 2015
Group study of selected topic or topics in Environmental Economics and Policy.
Directed Group Studies for Advanced Undergraduates: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of directed group study per week
Summer: 8 weeks - 1.5-5.5 hours of directed group study per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Directed Group Studies for Advanced Undergraduates: Read Less [-]

ENVECON 199 Supervised Independent Study and Research 1 - 4 Units
Offered through: Agricultural and Resource Economics
Terms offered: Spring 2019, Spring 2018, Fall 2017
Enrollment restrictions apply. Open to qualified upper division students wishing to pursue special study and directed research under the direction of a member of the staff.
Supervised Independent Study and Research: Read More [+]
Rules & Requirements
Prerequisites: Upper division standing and consent of instructor
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer: 8 weeks - 1-4 hours of independent study per week
Additional Details
Subject/Course Level: Environmental Economics and Policy/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Supervised Independent Study and Research: Read Less [-]

Directed Group Studies for Advanced Undergraduates: Read Less [-]