

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS
COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2010, and finalized by the end of the fall semester to make the next catalog (2011-12) production

DATE (CHANGE DATE EACH TIME REVISED): 10.7.10 REV 11.18.10; REV 11.19.10; REV 12.15.10

PROGRAM AREA(S): ECON

Directions: All of sections of this form must be completed for course modifications. Use **YELLOWED areas to enter data. All documents are stand alone sources of course information.**

1. Course Information.

[Follow accepted catalog format.] (Add additional prefixes if cross-listed)

OLD

Prefix ECON Course# 362 Title **Environmental Economics**

Units (3)

3 hours lecture per week

hours blank per week

X Prerequisites: ECON 110 and 111, or ECON 300.

Consent of Instructor Required for Enrollment

Corequisites:

Catalog Description (Do not use any symbols):

Economic analysis of environmental problems and policy. Market failures due to externalities, public goods, and common property resources are examined. Private (market) and public (governmental) solutions to environmental problems are examined.

General Education	<input type="checkbox"/>	Graded	<input type="checkbox"/>	Repeatable	<input type="checkbox"/>
Categories	<input type="checkbox"/>	CR/NC	<input type="checkbox"/>	for up to <input type="checkbox"/> units	
Lab Fee Requested	<input type="checkbox"/>	A - F	<input type="checkbox"/>	Total	<input type="checkbox"/>
			<input type="checkbox"/>	Completions	<input type="checkbox"/>
Course Level:	<input type="checkbox"/>	Optional	<input type="checkbox"/>	Multiple	<input type="checkbox"/>
X Undergraduate		(Student's	<input type="checkbox"/>	Enrollment in	
<input type="checkbox"/> Post-bac/Credential		choice)	<input type="checkbox"/>	same semester	
<input type="checkbox"/> Graduate			<input type="checkbox"/>		

NEW

Prefix ECON Course# 362 Title **Environmental Economics**

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Categories	<input type="checkbox"/>	CR/NC	<input type="checkbox"/>	up to <input type="checkbox"/> units	
Lab Fee Requested	<input type="checkbox"/>	x A - F	<input type="checkbox"/>	Total	<input type="checkbox"/>
			<input type="checkbox"/>	Completions	<input type="checkbox"/>
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X Undergraduate		(Student's	<input type="checkbox"/>	Enrollment in same	
<input type="checkbox"/> Post-bac/Credential		semester	<input type="checkbox"/>	choice)	
<input type="checkbox"/> Graduate			<input type="checkbox"/>		

2. Mode of Instruction (Hours per Unit are defaulted)

Hegis Code(s) _____ (Provided by the Dean)

Existing

Proposed

	Units	Hours Per Unit	Benchmark Enrollment	Graded		Units	Hours Per Unit	Benchmark Enrollment	Grade	CS No. (filled out by Dean)
Lecture	<u>3</u>	<u>1</u>	<u>25</u>	X	Lecture	<u>3</u>	<u>1</u>	<u>30</u>	X	<input type="checkbox"/>
Seminar	<input type="checkbox"/>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	Seminar	<input type="checkbox"/>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab	<input type="checkbox"/>	<u>3</u>	<input type="checkbox"/>	<input type="checkbox"/>	Lab	<input type="checkbox"/>	<u>3</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Activity	<input type="checkbox"/>	<u>2</u>	<input type="checkbox"/>	<input type="checkbox"/>	Activity	<input type="checkbox"/>	<u>2</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Field Studies	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Field Studies	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indep Study	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Indep Study	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other blank	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Other blank	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Course Attributes:

General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: <http://summit.csuci.edu/geapproval>. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

A (English Language, Communication, Critical Thinking)

- A-1 Oral Communication
- A-2 English Writing
- A-3 Critical Thinking

B (Mathematics, Sciences & Technology)

- B-1 Physical Sciences
- B-2 Life Sciences – Biology
- B-3 Mathematics – Mathematics and Applications
- B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)

- C-1 Art
- C-2 Literature Courses
- C-3a Language
- C-3b Multicultural

D (Social Perspectives)

E (Human Psychological and Physiological Perspectives)

UDIGE/INTD Interdisciplinary

Meets University Writing Requirement

Meets University Language Requirement

American Institutions, Title V Section 40404: Government US Constitution US History
Refer to website, Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>

Service Learning Course (Approval from the Center for Community Engagement must be received before you can request this course attribute).

4. Justification and Requirements for the Course. *[Make a brief statement to justify the need for the course]*

OLD

This course develops selected tools of economic analysis and applies them to environmental issues. It is an intermediate level applied microeconomics course. It is a required course for the major in Environmental Science and Resource Management, and is an elective course for the Economics minor.

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Requirement for the Major/Minor

Elective for the Major/Minor

x Free Elective

Requirement for the Major/Minor

Elective for the Major/Minor

x Free Elective

Submit Program Modification if this course changes your program.

5. Student Learning Outcomes. (List in numerical order. You may wish to visit resource information at the following website:

<http://senate.csuci.edu/comm/curriculum/resources.htm>)

Upon completion of the course, the student will be able to:

OLD

1. Define the conditions for an economically efficient allocation of resources.
2. Demonstrate those circumstances under which a market based economy will allocate resources efficiently.
3. Demonstrate those circumstances under which a market based economy will fail to allocate resources efficiently. In particular, students will be able to demonstrate market failures due to externalities.

Upon completion of the course, the student will be able to:*

NEW

1. Define the conditions for an economically efficient allocation of resources. (1,5)
2. Demonstrate those circumstances under which a market based economy will allocate resources efficiently. (1)
3. Demonstrate those circumstances under which externalities cause market failure. (1)
4. Analyze government regulatory attempts to correct

4. Analyze government regulatory attempts to correct market failures in terms of their economic efficiency.
5. Describe incentive based approaches to correct market failures.
6. Apply the Coase theorem to environmental issues, and use the Coase theorem to develop policies to improve environmental quality.
7. Define common property resources.
8. Identify examples of common property resources.
9. Analyze government policy toward common property resources.

market failures in terms of their economic efficiency. (1,3)

5. Describe and propose incentive based approaches to correct market failures. (1,2)
6. Apply the Coase theorem to develop policies to improve environmental quality. (1,2)
7. Define common property resources. (1,5)
8. Identify examples of common property resources. (1)
9. Analyze government policy toward common property resources. (1,3)

*Program Learning Goals: 1) Apply economic analysis to evaluate everyday decisions and policy proposals. 2) Propose viable solutions to practical problems in economics. 3) Use empirical evidence to support an economic argument. 4) Conduct statistical analyses of data, and interpret statistical results. 5) Communicate effectively in written, spoken and graphical form about economic issues.

6. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD

Welfare Economics

Economic efficiency
 Perfect competition and economic efficiency
 Market failures due to externalities

An Economic Model of Environmental Quality

Why do consumers and businesses pollute?
 The relationship between emissions and environmental quality
 The benefits and costs of improving environmental quality

The Regulatory Approach to Pollution Control

Advantages and disadvantages to a command and control approach to improving environmental quality

Economic Incentive Based Pollution Control

Advantages and disadvantages of the use of effluent fees to improve environmental quality
 Advantages and disadvantages of the use of subsidies to improve environmental quality
 Advantages and disadvantages of market based approaches to improve environmental quality

Common Property Resources

Coase's Theorem
 The Tragedy of the Commons
 Applications – Fishery management

Other Topics

Population Dynamics and the Environment
 Economic Development and the Environment

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 Perfect competition and economic efficiency
 Market failures due to externalities

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Coase's Theorem
 The Tragedy of the Commons
 Applications – Fishery management

Other Topics

Population Dynamics and the Environment
 Economic Development and the Environment

Does this course content overlap with a course offered in your academic program? Yes No X

If YES, what course(s) and provide a justification of the overlap.

Does this course content overlap a course offered in another academic area? Yes No X

If YES, what course(s) and provide a justification of the overlap.

Overlapping courses require Chairs' signatures.

7. Cross-listed Courses (Please note each prefix in item No. 1)

- A. List cross-listed courses (Signature of Academic Chair(s) of the other academic area(s) is required).
- B. List each cross-listed prefix for the course:
- C. Program responsible for staffing:

8. References. [Provide 3-5 references]

OLD

John Gowdy and Sabine O'Hara, *Economic Theory for Environmentalists*, St. Lucie Press, 1995.
Paul B. Downing, *Environmental Economics and Policy*, Little Brown, 1984.
Maureen L. Cropper and Wallace E. Oates, "Environmental Economics: A Survey," *Journal of Economics Literature*, 1992.
R. N. Stavins, *Economics of the Environment*, 4th edition, W.W. Norton, 2000.
Thomas H. Tientenberg, *Environmental and Natural Resource Economics*, 6th edition, Addison- Wesley, 2002.

NEW

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9. Tenure Track Faculty qualified to teach this course.

Dennis Muraoka

10. Requested Effective Date or First Semester offered:

11. New Resource Requested: Yes No

If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)

C. Facility/Space/Transportation Needs:

D. Lab Fee Requested: Yes No (Refer to the Dean's Office for additional processing)

E. Other.

12. Indicate Changes and Justification for Each. [Check all that apply and follow with justification. Be as brief as possible but, use as much space as necessary.]

- | | |
|--|--|
| <input type="checkbox"/> Course title | <input type="checkbox"/> Course Content |
| <input type="checkbox"/> Prefix/suffix | X <input checked="" type="checkbox"/> Course Learning Outcomes |
| <input type="checkbox"/> Course number | <input type="checkbox"/> References |
| <input type="checkbox"/> Units | <input type="checkbox"/> GE |
| <input type="checkbox"/> Staffing formula and enrollment limits | <input type="checkbox"/> Other <input type="text"/> |
| X <input checked="" type="checkbox"/> Prerequisites/Corequisites | <input type="checkbox"/> Reactivate Course |
| <input type="checkbox"/> Catalog description | |
| X <input checked="" type="checkbox"/> Mode of Instruction | |

Justification:

Updated Student Learning Objectives (SLO) and aligns SLO with Program Learning Goals (PLG)

13. Will this course modification alter any degree, credential, certificate, or minor in your program? Yes No X

If, YES attach a program update or program modification form for all programs affected.

Priority deadline for New Minors and Programs: **October 4, 2010** of preceding year.

Priority deadline for Course Proposals and Modifications: **October 15, 2010.**

Last day to submit forms to be considered during the current academic year: **April 15th.**

William Cordeiro



Proposer(s) of Course Modification
Type in name. Signatures will be collected after Curriculum approval.

Date

Approval Sheet

Course:

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

Program Chair		
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Signature

Date

Program Chair		
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Signature

Date

Program Chair		
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Signature

Date

General Education Chair		
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Signature

Date

Center for Intl Affairs Director		
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Signature

Date

Center for Integrative Studies Director		
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Signature

Date

Center for Multicultural Engagement Director		
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Signature

Date

Center for Civic Engagement and Service Learning Director		
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Signature

Date

Curriculum Chair		
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Signature

Date

Dean of Faculty		
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Signature

Date