The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

**Contact Person**: Kevin J Egan  
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*Email*: kevin.egan@utoledo.edu

<table>
<thead>
<tr>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
</table>
| Supply all information asked for in this column  
(Supply core, research intensive and transfer module info if applicable) | Fill in appropriate blanks only where entry differs from first column. |
| **College**: Coll Lang, Lit, and Soc Sci | **College**: Coll Lang, Lit, and Soc Sci |
| **Dept/Academic Unit**: Economics | **Dept/Academic Unit**: Economics |
| **Course Alpha/Numeric**: ECON 5240 | **Course Alpha/Numeric**: ECON 5240 |

| **Course Title**: Advanced Environmental Econ | **Course Title**: Applied Environmental Econ |
| **Credit hours**: Fixed, 3 or Variable, to | **Credit Hours**: Fixed, 4 or Variable, to |
| | |

| **CrossListings**: | **CrossListings**: |
| | |

| **Prerequisite(s)**(if longer than 50 characters, please place it in Catalog Description). | **Prerequisite(s)**(if longer than 50 characters, please place it in Catalog Description). |
| | |

| **Corequisite(s)**(if longer than 50 characters, please place it in Catalog Description) | **Corequisite(s)**(if longer than 50 characters, please place it in Catalog Description) |
| | |

| **Catalog Description (only if changed) 75 words max.** | **Catalog Description (only if changed) 75 words max.** |
| | |

Has course content changed?  
*Yes*  
*No*

If course content is changed, give a brief topical outline of the revised course below (less than 1500 words)

Changing to 4 credits allows the instructor to teach more advanced technical and empirical emphasis to the graduate students. Because the additional material will not be taught to the undergraduate students in ECON 4240, the additional hour for the graduate class will allow to make the two cross-listed (slashed) courses different in their structure.

https://curriculumtracking.utoledo.edu/GradCourseModify.aspx?Mode=Mod&ID=ECON52...  2/1/2013
Proposed effective term*: 201340 (e.g., 201140 for 2011 Fall)

Additional Attachment 1:

<table>
<thead>
<tr>
<th>File Type</th>
<th>View File</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syllabus</td>
<td>View</td>
<td>Delete</td>
</tr>
</tbody>
</table>

List any course or courses to be deleted: __________________________

Effective Date, __________________________

Effective Date, __________________________

Approval:

Department Curriculum Authority: __________________________

Date: __________________________

Department Chairperson: __________________________

Date: __________________________

College Curriculum Authority or Chair: __________________________

Date: __________________________

College Dean: __________________________

Date: __________________________

Graduate Council: __________________________

Date: __________________________

Dean of Graduate Studies: __________________________

Date: __________________________

Office of the Provost: __________________________

Date: __________________________

Submit Change

Administrative Use Only

Effective Date: __________________________

CIP Code: __________________________

Subsidy Taxonomy: __________________________

Program Code: __________________________

Instructional Level: __________________________

https://curriculumtracking.utoledo.edu/GradCourseModify.aspx?Mode=Mod&ID=ECON52... 2/1/2013
Economics 5240: Applied Environmental Economics
Syllabus

Instructor: Dr. Kevin J Egan
Office: University Hall 4140E
Class Hours:
Office Hours:
Office Phone: 419-530-4148
Email: kevin.egan@utoledo.edu
Homepage: I will be using “myBlackboard” to post articles, handouts, and exam scores. To log-in go to http://www.utoledo.edu/dl/
Textbook: NO REQUIRED TEXTBOOK
I will provide chapter handouts throughout the semester. I may use chapters from the following textbooks

Theory

Empirical
3) T Haab and T E McConnell, Valuing Environmental and Natural Resources: The Econometrics of Non-market Valuation, Edward Elgar Publishers, 2002

Both
5) D Phaneuf and T. Requate, A Course in Environmental Economics: Theory, Policy, and Practice, draft version

Course Objective
Give you the tools to be a research economist concerning environmental issues. We will cover the theory (e.g., market failures), policy (e.g., market solutions), and practice (e.g., econometrics) of environmental issues, with special emphasize on the econometrics and applied analysis.

Prerequisites
ECON 3200 or permission of the instructor

Course Description
In this course, we will begin with utility theory and derive welfare measurements for estimating the benefits of various policies that improve the environment. Many of the methods will involve nonmarket valuation techniques, both revealed preference and stated preference, such as recreation demand models, hedonic studies, and contingent valuation studies.

We will also cover advanced micro-econometric models necessary to conduct empirical environmental economics research. We will be using the econometric software Gauss and the add-on library Maximum Likelihood Estimation. The lab is now a “virtual lab”. To connect to the virtual lab from anywhere go to http://vlab.utoledo.edu and follow the directions.

In the second part of the course, we will discuss the theory of externalities, property rights, and corrective measures such as Pigouian taxes, marketable permits, regulatory standards, and subsidies. We will review the current literature for theoretical advances as well as discuss each measure as a potential policy instrument for pollution control.

Role of Economics
My view on the role of economics in general is best summarized in Gregory Mankiw’s Principles of Microeconomics textbook, third edition, page v