Instructor: Dr. Xie Zhu  
Office: 411 Elliott Hall  
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Email address: zhu@oakland.edu  
Office Hours: M&W, 4:00-5:00pm; or by appointment  

TEXT  

COURSE DESCRIPTION  
Environmental economics involves application of the tools of economic analysis to problems of energy, ecology and the environment. Topics include externalities and public goods, optimum use of fixed national resources, limits to economic growth and ecological aspects of principal pollution problems.  

Prerequisite: ECN 150 or ECN 201 or ECN 210, with a minimum grade of 2.0.  

GRADES  

<table>
<thead>
<tr>
<th>Item</th>
<th>Date-Tentative</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Midterm #1</td>
<td>Jan. 26</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm #2</td>
<td>Feb. 21</td>
<td>20%</td>
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<tr>
<td>Midterm #3</td>
<td>Mar. 26</td>
<td>20%</td>
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<tr>
<td>Final</td>
<td>3:30-6:30pm, April 23</td>
<td>40%</td>
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EXAMINATIONS  
All exams will be based on lectures. Anything we discuss in class, whether or not it is in the text, is fair game for exams. The three midterm exams are *non-cumulative*; however, I will assume that the terminology and concepts from earlier in the course have been mastered. The final exam is *cumulative*.  

Any unexcused absence from an exam will lead to a grade of zero for that exam. Missed exams will be excused only with signed formal documents (e.g., a doctor’s letter in letter head paper with signature for medical emergency). Should an absence be excused, the format of the make-up exam will be at the discretion of the instructor.
Exams **must be returned** to the instructor after they are reviewed in class. Failure to return an exam to the instructor immediately following the review will result in a **ZERO** for that exam.

**CHAPTER COVERAGE - Tentative**

**I. Introduction**
Ch. 1: What is Environmental Economics?
Ch. 2: The Economy and the Environment

**II. Analytical Tools**
Ch. 3: Benefits and Costs, Supply and Demand
Ch. 4: Economic Efficiency and Markets
Ch. 5: The Economics of Environmental Quality

**III. Environmental Analysis**
Ch. 6: Frameworks of Analysis
Ch. 7: Benefit-Cost Analysis: Benefits
Ch. 8: Benefit-Cost Analysis: Costs

**IV. Environmental Policy Analysis**
Ch. 9: Criteria for Evaluating Environmental Policies
Ch. 11: Command-and-Control Standards
Ch. 12: Incentive-Based Strategies: Emission Charges and Subsidies
Ch. 13: Incentive-Based Strategies: Transferable Discharge Permits

**V. Environmental Policy in the United States**
Ch. 14: Federal Water Pollution Control Policy
Ch. 15: Federal Air Pollution Control Policy
Ch. 17: State and Local Environmental Issues

**VI. International Environmental Problems**
Ch. 20: Global Environmental Issues: Ozone Depletion, Global Warming, Biological Diversity
Ch. 21: International Environmental Agreements

**ATTENDANCE AND PARTICIPATION**

1. It is important for you to attend class since lectures may go beyond the scope of the textbook for certain topics. Further, you're responsible for all announcements made in class and class lectures often involve working through problems. You're recommended to check with your friends in the class should you be absent.

2. There will be many in class **bonus problems - 5% extra credit**. The problems will relate to current topics, and may be given at *any* time during any class period. There will
be no make-up bonus problems - none even later during the same class period. Bonus problems will be given only to those students who are present when the problems are passed out.

You may work in groups up to four members per group for the bonus problems.

ACADEMIC CONDUCT

The University values academic honesty and integrity. Each student has a responsibility to understand, accept, and comply with the University’s standards of academic conduct as set forth by the Code of Academic Conduct (see the Undergraduate Announcement) as well as policies established by the Schools and Colleges. Violations will not be tolerated and will be pursued with the full weight of University regulations and the law.