Instructor: Stephen Holland  
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Office Hours: Wed. 10-12 or by appointment

Texts: The two primary texts for this course are: Environmental and Natural Resource Economics, by Tom Tietenberg, and Economics of the Environment: Selected Readings edited by Robert Stavins. We will also use sections from The Economic Approach to Environmental and Natural Resources, by James Kahn, and Economics and the Environment, by Eban Goodstein. All these books have been placed on reserve at the library.

In addition to the texts, you will be required to research articles from the standard economic literature. Many of the relevant articles have been collected in Economics of the Environment: Selected Readings edited by Robert Stavins, but you should be able to find all the articles in their original sources.

Course website: The website for the course is http://www.uncg.edu/eco/holland/E380/ All materials will be posted here.

Evaluation: Grades will be based on graded homework assignments, 10%; a midterm exam, 25%; writing projects, 25%; and a final exam, 40%. The midterm exam will be in class on March 4. The writing projects will be assigned during the term and may require some economic modeling or data analysis. The final exam will be during the scheduled time and will be comprehensive.

In addition to the above assignments, you are expected to attend and participate in class lectures and discussions. Class participation will be used to determine grades on the margin.

Course Outline

1. Introduction and analytic tools  
   Tietenberg Ch. 1, Stavins Ch. 1, Goodstein Ch. 1-2, Kahn Ch. 1

2. Market Failure, Externalities, Public goods  
   Tietenberg Ch. 4, Stavins Ch. 2,3,4, Goodstein Ch. 3-4 Kahn Ch. 2-3

3. Valuation, cost-benefit analysis, and environmental policy  
   Tietenberg Ch. 2,3  Stavins Ch. 9-13,15. Goodstein Ch. 8-10, Kahn Ch. 4

4. Sustainability and intergenerational optimization  
   Tietenberg Ch. 5, Stavins Ch. 5, Goodstein Ch. 6-7

5. Economics of natural resources  
   Tietenberg Ch. 7 plus 8-14.

6. Economics of pollution control  
   Tietenberg Ch. 15 plus 16-20. Stavins Ch. 18-21

7. Environmental justice  
   Tietenberg Ch. 21