Professor: Stephen Holland  
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Office Hours: Wed or Friday 11-12 or by appointment or open door.

Course description: This course applies the tools of economics to analyze questions about natural resource usage and the environment. Since this is a writing-intensive (WI) course, writing will be used extensively throughout the course as a means for learning about the underlying issues. In addition to writing, you will learn through: playing games, doing mathematics, drawing graphs, describing economic processes, graphing price trends using MS Excel, and researching current policies on the internet.

Course goals:  
1) Learn about environmental problems from an economic perspective.  
2) Be able to apply economic tools to environmental problems.  
3) Reinforce skills in economic analysis.  
4) Read extensively.  
5) Improve writing skills.  
6) Improve research skills primarily using the internet.  
7) Do simple data manipulations using Excel.  
8) Work hard.  
9) Have fun!!

Texts: The text for this course is *Environmental and Natural Resource Economics*, by Tom Tietenberg (Seventh Edition). Additional materials may be used as necessary.

Course website: This course will not have a website, but all relevant materials will be posted to blackboard [http://blackboard.uncg.edu/](http://blackboard.uncg.edu/).

Evaluation: Grades will be based on informal writing, class participation, and homework assignments, 10%; a midterm exam, 20%; formal writing projects, 35%; and a final exam, 35%. The midterm exam will be in class on March 2. 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.
Course Outline

1. Introduction and review of economics
   Tietenberg Ch. 1

2. Market Failure, Externalities, Public goods
   Tietenberg Ch. 2, 4

3. Valuation, cost-benefit analysis, and environmental policy
   Tietenberg Ch. 2, 3

4. Sustainability and intergenerational optimization
   Tietenberg Ch. 5

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

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

7. Environmental justice
   Tietenberg Ch. 21