

NATURAL RESOURCE AND ENVIRONMENTAL ECONOMICS
ECON 440, Winter 2007

Professor: C. Arden Pope (142 FOB, Ex. 2-2157)

Lectures: 9:35-10:50 am, MW, 274 MARB

Text: Tietenberg Tom. Environmental Economics and Policy. 5th Ed. Addison Wesley 2007.

Grading:	Midterm Exam	30%
	Final Exam	30%
	Term paper	30%
	<u>In-class quizzes</u>	<u>10%</u>
	Total	100%

Dates	Class Plan	Reading
Jan 8,10	Intro. What is natural resource/enviro econ? Scarcity? Anthropocentric?	Chapters 1-10,13
Jan 17, 22	What are models. Basic neo-classical economic model.	
Jan 24, 29	Summary of welfare economics, efficiency, pareto optimality.	
Jan 31, Feb 5	Property rights, bundle of rights	
Feb 7	Classes of resources, goods, and services	
Feb 12, 14	Approaches to reach efficiency. Improved property rights, Coase's Theorem. Taxation, Regulation, Public ownership etc.	
Feb 20,21	What is value? (TWP, marginal, average, market prices, market value) Allocation to maximize value. Cows versus Elk.	Focus on Chapters 2-3
Feb 26	Non-market valuation, Value of Life	
Feb 28, March 5	Population Growth and the Environment	Chapter 6, 20 handouts
March 7	Midterm Exam (in classroom) covers through Feb 26 lecture	
March 12, 14	Below cost use, public forests, mining, public grazing	paper research
March 19,21	Optimal wilderness or wild lands	paper research
March 26,28, April 2	Estimating external health costs of air pollution Air pollution, economics and public policy	Chapters 14, 15 handouts
April 4, 9	Optimal Control Theory, allocation of depletable natural resources	handout
April 11	Old Growth Forests/Economic Sources of Environmental Polarization	paper research
April 16	Environmental Economics, Ethics, Stewardship (Term paper due)	paper research
April 20	Final, 3:00-6:00 pm (in classroom)	---

Grading Information:

Essay or term paper: The essay or term paper should be 6-8 pages plus figures, tables, and references. In addition to reading the text book and supplemental handouts, this term paper is considered to be the primary out of class work. You will not get a good grade in the course if you do not write a good term paper. It will be due on the last day of class in class.

Extra Credit: There will be no extra credit work in this class.

Quizzes: The quizzes will be given at the start of class. There will be two questions: 1) What is your name? And 2) a question on the material from the previous lecture. They will be scored as 0, 1, or 2.

Examinations: There will be one mid-term and a final. The final is not comprehensive. The midterm exam cannot be taken late. An early mid-term exam will be given for University approved travel and with prior permission from the professor. The final exam must be taken during the final exam time. No make-up, late, or late-with-fee exams.

Additional Information:

Each program at BYU has developed a set of expected student learning outcomes. These will help you understand the objectives of the curriculum in the program, including this class. To learn the expected student outcomes for the programs in this department and college go to <http://learningoutcomes.byu.edu> and click on the College of Family, Home and Social Sciences and then this department. We welcome feedback on the expected student learning outcomes. Any comments or suggestions you have can be sent to FHSS@byu.edu

Statement of the Honor Code and Student Rights: While all students sign the honor code, there are still specific skills most students need to master over time in order to correctly cite sources, especially in this new age of internet; as well as deal with the stress and strain of college life without resorting to cheating. Please know that your professor will notice instances of cheating on exams or plagiarizing on papers. See <http://www.byu.edu/honorcode> for specific examples of intentional, inadvertent plagiarism, fabrication, and falsification.

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Brigham Young University is committed to providing a working and learning atmosphere which reasonably accommodates qualified persons with disabilities. If you have any disability which may impair your ability to complete this course successfully, please contact the Services for Students with Disabilities Office (422-2767). Reasonable academic accommodations are reviewed for all students who have qualified documented disabilities. Services are coordinated with the student and instructor by the SSD office. If you need assistance or if you feel you have been unlawfully discriminated against on the basis of disability, you may seek resolution through established grievance policy and procedures. You should contact the Equal Employment Office at 422-5895, D-282 ASB.