**ECON 365: Environmental Economics and Policy**  
Department of Economics, Emory University  
Spring 2018  
Instructor: Dr. Mona Ray  
Email: mona.ray@emory.edu

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<th>Class Time: TTH 2.30p - 3.45p</th>
<th>Office: 573 PAIS Building</th>
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<td>Class Room: 103 White Hall</td>
<td>Office Hours: TTH 4.00 - 6.00p or by appointment</td>
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**Prerequisites:** ECON 101 or ECON_OX 101 or BUS 201 or ECON_OX 100 or equivalent transfer credit as a prerequisite

**Course Objective:** This course will deal with the fundamental question of how the economic system shapes economic incentives in ways that lead to environmental degradation as well as improvement. It will study the operation (and failure) of markets for resources and environmental goods, and the policies governments use to intervene in such markets. This course will provide an opportunity for the students to gain knowledge to use the analytical tools like trade-offs, costs and benefits, efficiency to manage natural resources. It will effectively deal with the policy issues in understanding the complex relationship between property rights, market structure, institutional and political reforms and cultural practices. Students will also learn the various forms of sustainable development and how the society, economy and the environment are interconnected in ensuring sustainable development.


Register on the book website [http://www.mhhe.com/field7e](http://www.mhhe.com/field7e) to access additional chapter resources.

**Supplemental Reading:** *Environmental Economics and Natural Resource Management*, 4th ed., by David A. Anderson.  
*The Economics of Natural Resource Use*, 2nd ed., by John M. Hartwick and Nancy D. Olewiler

**Course Requirement:** This course involves active class participation. Along with my lecturing in each class, I expect students to engage in discussions on environmental issues and concerns. Throughout the semester there will be two tests, and a final exam as scheduled in the attached course schedule. A group project will also be conducted in class. Weekly in-class quizzes will be conducted to assess progress in this class. Additionally, homework will be assigned on Canvas.

Any announcements regarding coursework will be communicated through CANVAS. Students are encouraged to check Canvas regularly.

**Expected Student Learning Outcomes:** After completing the course the students should be able to
1. Demonstrate that the principles of economics can be used to the study of how environmental resources are managed.
2. Understand the importance of incentives that lead people to make decisions that help or hurt the environment.
3. Use economic tools to evaluate the environmental damages.
4. Demonstrate the interdependence between the economy and the environment.
5. Use graphical analysis to explain the difference between private costs and social costs associated with resource use.
6. Define sustainable development and understand the economics of sustainability.
7. Demonstrate the effect of environmental damage on human health.
8. Analyze the impact of international agreements of common resource use on individual economies.
9. Demonstrate the methods of non-market valuation of resource use.
10. Distinguish between Equi-marginal principle and Equi-proportional principle of resource use.

**Grading and Attendance Policy:** For real learning to take place, you must first be intellectually humble, open and courageous. After all, that is why we are all at this institution. I expect you to act in ways that reflect those values. **No student will be allowed into the class after 5 minutes of class starting time.** If you are going to be late or have to leave early on a particular day, for a valid reason, please let me know in advance.

All assignments are to be turned in by the due date. However, in cases of valid excuses you get two class periods’ time to make up for that assignment. Your passing grade for this course is D and will depend on the following rough weighing scheme:

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<td>Attendance</td>
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<td>Homework</td>
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<td>Exam 1</td>
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<td>Group Project</td>
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<td>Exam 2</td>
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<td>Final Exam</td>
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**Grading Scale:**
- A: 94 to 100
- A-: 90 to 93.99
- B+: 87 to 89.99
- B: 84 to 86.99
- B-: 80 to 83.99
- C+: 77 to 79.99
- C: 74 to 76.99
- C-: 70 to 73.99
- D+: 67 to 69.99
- D: 60 to 66.99
- F: 59.99 and below

There will be no curving in any of the exam grades. No make-ups for the exams will be allowed. No incompletes will be given.

Your course grade will be calculated using the following formula:
Course Grade: 
\[
\left( \frac{\text{Exam 1 score}}{\text{Total Points}} \right) \times 0.15 + \left( \frac{\text{Exam 2 score}}{\text{Total Points}} \right) \times 0.15 + \left( \frac{\text{HW1 + HW 2 + HW3 + ...}}{\text{Total Points}} \right) \times 0.15 + \left( \frac{\text{Q1 + Q2 + Q3 + ...}}{\text{Total Points}} \right) \times 0.10 + \left( \frac{\text{Project score}}{50} \right) \times 0.20 + \left( \frac{\text{Final exam score}}{75} \right) \times 0.20 + \left( \frac{\text{Attendance}}{\text{Total # of Days}} \right) \times 0.05
\]

Attendance scale is as follows:
Attending class on time = 1 point
Attending 5 mins late = 0.5 point
Unexcused absence = 0 point
Excused absence = 0.75 point

**Academic Honesty and Classroom Etiquettes**

You are expected to adhere to the provisions of the Honor Code of Emory College throughout the semester. Suspected cases of academic misconduct will be handled according to the Honor Code, which can be found at [http://conduct.emory.edu/filebin/UNDATED_Undergraduate_Code.pdf](http://conduct.emory.edu/filebin/UNDATED_Undergraduate_Code.pdf)

- You agree that the teacher is entitled to move you to another seat during examinations, without explanation. You also affirm that if you witness others violating the code you have a duty to report them to the Honor council.
- No Student will be allowed to audio and/or videotape my class lectures without disability accommodations.
- All **cell phones and laptops must be switched off** and tucked in your bag once you are inside my classroom. During test periods, you have to bring a regular calculator and not use any other electronic device as a calculator.
- Contribute fairly to group work. Always cite reference materials that you use (including materials from the Internet). Do not plagiarize or as pass off the work of others as your own. Examples of plagiarism include but are not limited to “cutting and pasting” information off the Internet. When in doubt, err on the safe side.
- I expect all students in my class to maintain classroom etiquettes – no inappropriate attires, indecent behavior and talks will be tolerated in the classroom.
- Cheating or using unfair means to answer exams will be heavily penalized and will result in ‘F’ grade.

**Disability:**
Students with disabilities are encouraged to register with the Office of Disability Services (ODS). After that, share with me any accommodations and other special needs.

**Important Dates:**
First Day of Class: Wednesday, January 17, 2018
Last day to add/drop a class: Wednesday, January 24, 2018
Partial Withdrawal w/o penalty: Friday, March 9, 2018
Spring Break: Monday – Friday, March 12-16, 2018
One-time partial withdrawal: Friday, April 6, 2018
Last Day of class: Monday, April 30, 2018  
Final Exam: Monday, May 7, 3.00 - 5.00 pm, 2018

**Tentative Course Outline:** The course syllabus is not a contract between instructor and student, but rather a guide to course procedures. The instructor reserves the right to amend the syllabus when conflicts, emergencies or circumstances dictate and students will be duly notified. This course will focus on three broad areas.

I. **Building the Foundation**  
   Field & Field, Chapters 1 & 2  
   Anderson, Chapters 1  
   Hartwick & Olewiler, Chapter 1

II. **Issues in Environmental Economics and Policies**  
   Economic Efficiency – Field & Field, Chapters 3, & 4; Anderson, Chapter 2  
   Environmental Quality – Field & Field, Chapters 5; Anderson, Chapter 6  
   Analysis Frameworks- Field & Field, Chapters 6-8;  
   Non-Renewable Resource Use and Policies- Anderson, Chapter 14 and Hartwick & Olewiler, Chapters 8, & 9  
   Renewable Resources - Anderson, Chapter 13 and Hartwick & Olewiler, Chapters 10, & 11  
   Strategies and Policies - Field & Field, Chapters 11-13;

III. **Sustainability**  
   Anderson, Chapter 8 and Hartwick & Olewiler, Chapters 2, & 12

**FIELD & FIELD**  
Chapter 1 – What is Environmental Economics?  
Chapter 2 - The Economy and the Environment  
Chapter 3 - Benefits and Costs, Supply and Demand  
Chapter 4 – Economic Efficiency and Markets  
Chapter 5 – The Economics of Environmental Quality  
Chapter 6 – Frameworks of Analysis  
Chapter 7 – Benefit –Cost Analysis: Benefits  
Chapter 8 – Benefit –Cost Analysis: Costs  
Chapter 11 – Command-and-Control Strategies  
Chapter 12, 13 – Incentive-Based Strategies

**ANDERSON**  
Chapter 1 – The Big Picture  
Chapter 2 – Efficiency and Choice  
Chapter 6 – Environmental Quality  
Chapter 8 – Sustainability  
Chapter 13 – Natural Resource Management – Renewable Resources  
Chapter 14 – Natural Resource Management – Depletable and Replenishable Resources

**HARTWICK & OLEWILER**
Chapter 1: - Economic Concepts for Examining Natural Resource Use
Chapter 8 – Nonrenewable Resource Use: The Theory of Depletion
Chapter 9 – Nonrenewable Resource Use: Departures from the Competitive Case and from Fixed Stock Size
Chapter 10 – Forest Use
Chapter 11 – Dynamic Models of the Fishery
Chapter 12 – The Economics of Sustainability

More Supplemental Reading assignments may be posted on Blackboard throughout the semester.

Environmental Economics and Policy– ECON 365-01 Spring 2018

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