

# University of Toronto, Economics Department, Summer 2019

## Environmental Economics & Policies: ECO313

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**Office Hours:** Wednesdays 4:00-5:30PM, Room GE 164.

### **Course Description:**

This course demonstrates a rigorous application of microeconomic techniques in order to respond to various environmental problems. First, we look at the interaction between natural and economic systems, and the nature of the environmental deterioration, caused mainly by fast expansion of the level of economic activities. Then, we will seek solutions to these problems in the framework of neoclassical economics, even though, we will look, however short, at the alternative critical views. The economics of recycling and optimal extraction of the environmental resources are among other topics that will be touched. Case studies and real-world environmental policies will be discussed too.

### **Pre-requisites:**

Prerequisites are strictly checked and enforced and must be completed before taking a course. By taking this course you acknowledge that you will be removed from the course at any time, if you do not meet all the requirements set by the Department of Economics. For further information you can consult the Courses Calendar, which is available from the Registrar's Office.

### **Lectures and Tutorials:**

This course is scheduled for 6 hours a week, Tuesdays and Thursdays, 2:00-5:00PM. I will use the third hour spots on Thursdays (4:00-5:00PM), sometimes for lecture and sometimes for tutorial. I will post when the third hour is used for lecture or tutorial in Quercus in advance.

### **Textbooks and Readings:**

This course is involved with a lot of reading. However, there is no single textbook that can be used for all the materials. Among others, there will be references to following textbooks. The readings will be assigned throughout the semester, and will be available in library reserve. There may not be enough time in classes to go over all the details of the reading materials, but students are required to read the materials carefully, and are responsible for everything.

Roger Perman, Yue Ma, Michael Common, David Maddison, James McGilvray (2011), Natural Resource and Environmental Economics, 4<sup>th</sup> edition, Pearson Publishing.

Field, Barry C. and Nancy D. Olewiler, 2017. Environmental Economics, Forth Canadian Edition. Toronto: McGraw-Hill Ryerson.

### **Requirements:**

Midterm	35%	<b>(July 18, 2019)</b>
Writing Assignment	10%	<b>(July 28, 2019, at 6 pm)</b>
Final Exam	55%	<b>(TBD by the registrar office)</b>

- If for emergency reasons, acceptable by the university rules, you miss the midterm term test, you must take a makeup on **August 8, 2019**. The makeup test is a **short** (like 45-minute) test that may cover **more chapters** than the midterm test. This test is a private test, which the questions, solutions, and your paper will **not** be returned to you. If you miss the midterm test, you must email me within 3 days, and submit the **hardcopy** of your documentations within a week of the missed test to me or the economics department front desk. Please do not send the scan of the documents by email. **If you miss the makeup test, you will receive zero mark, no matter why you miss the test.**

- The details of the writing assignment, which is a **group** assignment, will be announced later in the semester. Please note the due date and time in above. No late assignment is accepted, so no late submission deduction is applicable. No excuse like network failure or system interruption ... is acceptable. If you miss the writing assignment, it cannot be substituted by anything else.

### **Emails and Quercus Course Website:**

- I will **NOT** expect to receive any messages or comments from Quercus website. Also, I do **NOT** monitor, follow, and intervene any possible students' conversations in Quercus. In order to communicate with me, you must use your UofT email address and my UofT email address (given in above). Essentially, emails are used only as the last resort, and after checking the course outline and website announcements. I may address the issues sent by email in class, instead of replying the emails. For questions regarding the course materials you should talk to me or TA during the office hours, class, or tutorials. In case of email, you should put the **course name and your last name in the subject line, otherwise I will not open your email.**

- I will post the course materials and announcements on the Quercus course website. It is your responsibility to follow up and get the information about the test, makeup test, and other issues.

- Notes posted on the website may not be complete. They will be completed in class. The complete version will **NOT** be available.

### **Appeals:**

For re-grading your term tests, you should submit a written request (hardcopy) including your detailed justifications for regrading and a copy of the parts of your test paper that should be regarded to me or the Economics Department, within 2 weeks after returning the results to students. After this period, no request is accepted. Writing things like **"I believe I should receive more partial marks for this question"** is not a good basis for re-grading. I may decide to regrade the whole test paper, so your grade can go either way, up or down after re-grading. For re-grading the writing assignment, there could be less time for the appeal, depending on the registrar office deadline for the final marks.

### **Behavior and Conduct in Class:**

Your cell phone must be off in class. No distraction in class will be tolerated. You will be asked to leave the class, if you distract the class by talking, surfing the internet, or by your electronic devices.

## Academic Integrity:

- Students should note that any form of academic misconduct will not be tolerated. Any student caught engaging in such activities will be subject to academic discipline ranging from a mark of zero on a test or examination to dismissal from the university as outlined in the academic handbook. Any student abetting or otherwise assisting in such misconduct will also be subject to academic penalties. All suspected cases will be reported to the Department of Economics and OSAI. Please consult with the university's *Code of Behavior on Academic Matters*:  
(<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>).

- As you know plagiarism is a violation that is prosecuted based on the university rules. In suspicious cases, I may decide to check your assignments by Turnitin.

## Other Issues:

- Some supplementary examples, graphs, and materials might be discussed in class. For the test and exam, you are responsible for all the materials that are discussed in class.
- There will be some grade adjustments in terms of the final letter grade of the course, at the instructor's discretion. In case of petition for re-grading of the final exam, the adjustment may be revised.

## Topics:

**This is a tentative schedule for this course.**

**Actual pace, order, topics, and coverage of the materials might be different**

Session	Topics
1	Economics and Environment: Neoclassical vs. Ecological Views
2	Sustainability and Limits to Economic Growth, Classical, Neoclassical, and Ecological Views
3	Social Choice, Economic Efficiency and Environment Market Failure and Environment: Externalities and Public Goods
4	The Socially Efficient Levels of Emissions for Flow –Damage Pollutant, Spatial and Intertemporal Analysis of Stock-Damage Pollutant
5	Solutions to Environmental Problems: Varieties of Policy Instruments, Institutional Approaches, Command and Control Instruments, The Market Based Approaches
6	<b>Midterm Test (July 18, 2019)</b>
7	Solutions to Environmental Problems (Continued)
8	Regulation under uncertainty
9	Economics of Recycling
10-11	Assessing Benefits of the Environmental Services: The Contingent Valuation Method, Travel Cost Method, Hedonic Price Method, ...
12	The Theory of Optimal Resource Extraction: Renewable and Non- Renewable Resources