Course Description:
This course provides an introduction to environmental economics. It is typical in that we will use mostly microeconomic theory to discuss the nature of externalities, their implications, and the relevance of government policy in addressing environmental issues. It is atypical in that we will study in depth three environmental topics. As you are undoubtedly aware, there are many pressing environmental issues in the world today. Some are local in nature, for example the issue of orphan wells in Alberta, others are purely national such as species preservation, while others are international - climate change. The field of environmental economics is very broad, and we will make use of tools from both macro and microeconomics as well as discuss empirical work often. I will draw from your knowledge in all of these fields.

Course Learning Outcomes:
By the end of this course the student will have a very good understanding of basic environmental economics. They will understand the positive and normative implications of externalities and understand the incentives governments have to intervene in markets to address these market failures. They will understand the uses of various types of environmental policies and their limitations. They will also understand how economic growth and international trade can affect environmental outcomes and appreciate some of the difficulties in designing policy to address species loss and climate change.

Course Outline:
I have organized the material around three very topical policy issues. There are 25 lectures in total during the course. One lecture will be taken up by the midterm, 3-4 lectures will be dedicated to relearning or revisiting tools you may have forgotten, and the remaining twenty will be divided evenly across the three key questions we discuss. This gives us about 7 lectures, or three weeks, per study area. I am hoping to stick to this plan for each topic, but it is possible we either run out of time or world events intervene making us spend more time on one topic than another.

Each of the three sections or modules will proceed in much the same way, and there are common elements to each section.
First, there will be a video from YouTube (or similar) introducing the issue (typically courtesy of an environmental group or government agency), together perhaps with some discussion by others (perhaps a clip from the PBS news hour).

Second, there is the lecture material I will provide that gives us the logical framework with which we can discuss the issue. This material will be presented in class. You will be responsible not only for the lecture material presented in class, but also for the additional readings I will assign in class.

Third, environmental policy discussions are often full of all kinds of minutiae and detail that I am not an expert on. To fill this gap, I will sometimes ask you to listen to podcasts. I will hopefully be able to find short (less than 20 minute) informative, and very detailed discussions of environmental policy issues.

Fourth, with the completion of every section there will be an assignment for you to do that will reinforce the material and hopefully prepare you for the examinations. The assignments will contain both analytical questions and some writing assignments with the mix of the two determined by the size of the class.

In addition, I will try to find classroom visitors who can come and discuss their research or views on one or more of the topics we cover.

The three modules are, in brief, organized around the following policy issues:

1. Some Economics of Climate Change. The focus here will be on the difficulty of designing policy to internalize a global externality. I will discuss free rider incentives, show you why international agreements are very difficult to design and implement, and discuss carbon border taxes.

2. Trade vs the environment: Is liberalized trade good or bad for the environment? Do differences in environmental regulation drive firms to pollution havens? What role does globalization play in deforestation, overfishing, and resource overuse worldwide?

3. Species extinction and conservation: Is the market economy driving species to extinction? Has it done so in the past? What if anything should be done to preserve biodiversity? How do we value biodiversity?

**Prerequisites/corequisites:**
ECON 357, 359, and 395.

**Required Textbook(s):**
There is no required textbook, but I will assign readings for each section. We will discuss some of the readings in class, but you are expected to read and study them independently.

**Recommended Textbook(s):**
I am writing a new book on international trade and resource overuse and will make chapters from it available to the class.

**Books on Reserve:**
The list of reserve titles, if any, is posted at the course D2L site.
Desire2Learn:
This course will make use of the Desire2Learn (D2L) platform. Students who are registered in the course can log on at http://d2l.ucalgary.ca through their student centre. Please note that D2L features a class e-mail list that may be used to distribute course-related information. These e-mails go to your University of Calgary e-mail addresses only.

Grade Determination:

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<th>Percentage</th>
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<tr>
<td>MIDTERM EXAM</td>
<td>30%</td>
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<tr>
<td>FINAL EXAMINATION</td>
<td>40%</td>
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<tr>
<td>ASSIGNMENTS</td>
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<td><strong>TOTAL</strong></td>
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Examination Details:
Tests and exams WILL NOT involve multiple choice questions.

Programmable calculators, cellphones, textbooks, course notes, and other electronic devices will not be allowed during the writing of tests or final examinations. Non-programmable calculators WILL be allowed during the writing of tests or final examinations. Students are reminded that simply being able to access their cellphone during an exam is academic misconduct.

The midterm will be on Thursday the 27th of October.

The exams will contain both analytical problem-solving questions and an essay question. The analytical questions require you to manipulate and make use of economic modelling in a precise and mathematical way. The essay question will feature an introductory prompt I provide and require you to write a cohesive essay responding to the prompt. The essay must be a proper essay — no point form, logically written, and must make use of the materials learnt in the course. An essay is not an opinion piece, it is a logical argument, and a good essay is no less precise in its construction than is an answer to a purely analytical question. The essay component and analytical components will each be worth 50% of the grade in any exam (including the final), so essay writing and analytical skills will both be required to do well in the course.

Grading Policies:
The official grading system will be used. See http://www.ucalgary.ca/pubs/calendar/current/f-1-1.html.

Students must receive a passing grade on the final exam to pass the course. Students committing academic misconduct during the final exam will not receive a passing grade for the course.

If a student’s letter grade on the final exam exceeds their midterm(s) letter grade, the weight of the midterm(s) is (are) transferred to the final exam. The student must have written the midterm(s) or provided supporting documentation for the absence(s).
As per the Writing Across the Curriculum Statement in the Calendar, writing and grading thereof will be a factor in the evaluation of student work. See https://www.ucalgary.ca/pubs/calendar/current/e-2.html.

Any student work which remains undistributed after the last day of classes will be available to students through the instructor’s office during the instructor’s office hours.

The final examination will be comprehensive, scheduled by the Registrar, held in a classroom, and last 2 hours. If a student cannot write their final exam on the date assigned by the Registrar’s Office, they need to apply for a deferred exam https://www.ucalgary.ca/pubs/calendar/current/g-6.html. Under no circumstance will this be accommodated by the Department.

THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES/TESTS/EXAMS under any circumstances, nor may the quizzes/tests/exams be written early. Students unable to write the quizzes/tests/exams because of documented illness, family emergency, religious observance, or university-sanctioned event will have the weight shifted to the final examination; otherwise a grade of zero will be assigned.

Reappraisal of Grades:
For Reappraisal of Graded Term Work, see Calendar I.2
http://www.ucalgary.ca/pubs/calendar/current/i-2.html

For Reappraisal of Final Grade, see Calendar I.3
http://www.ucalgary.ca/pubs/calendar/current/i-3.html

Academic Misconduct and Intellectual Honesty:
Academic Misconduct refers to student behavior that compromises proper assessment of students’ academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor’s expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

Statement of Intellectual Honesty, see Calendar K.4
https://www.ucalgary.ca/pubs/calendar/current/k-3.html

Plagiarism and Other Academic Misconduct
https://ucalgary.ca/student-services/student-success/learning/academic-integrity

Academic Accommodations:
Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services. SAS will process the request and issue letters of accommodation to instructors. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policies on Student Accommodations are available at https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/policies-accommodation-for-students-with-disabilities-procedure.pdf and https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/policies-student-accommodation-policy.pdf.
Freedom of Information and Protection of Privacy (FOIP) Act:
Personal information is collected in accordance with FOIP. Assignments can only be returned to the student and will be accessible only to authorized faculty and staff. For more information, see https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/faq-privacy-faculty-members.pdf and https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/faq-privacy-students.pdf.

Internet and Electronic Communication Device information:
The use of cell phones for any purpose in class is prohibited. Computers and tablets may be used for note taking only unless otherwise authorized by the instructor.

Copyright Legislation:
See the University of Calgary policy on Acceptable Use of Material Protected by Copyright at https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Acceptable-Use-of-Material-Protected-by-Copyright-Policy.pdf. Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

Recording of Lectures:
Recording of lectures is prohibited, except for audio recordings authorized as an accommodation by SAS or an audio recording for individual private study and only with the written permission of the instructor. Any unauthorized electronic or mechanical recording of lectures, their transcription, copying, or distribution, constitutes academic misconduct. See https://www.ucalgary.ca/pubs/calendar/current/e-6.html.

Instructor Intellectual Property:
Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed, or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

Important Dates:
Please check: http://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html.

Student Organizations:
Faculty of Arts Students’ Association (F.A.S.A.):
Economics Department Representative
Office: SS 803, E-mail: econrep@fasaucalgary.ca and Web: www.fasaucalgary.ca.

Society of Undergraduates in Economics:
https://www.ucalgarysue.com/.

Society of Undergraduates in Economics is a student run organization whose main purpose is to assist undergraduate economics students to succeed both academically and socially at the University of Calgary. Services include access to the exam bank, career events such as Industry Night and information sessions, mentorship programs, and social events for members. They invite you to join by contacting SUE at sue@ucalgarysue.com.
Faculty of Arts Program Advising and Student Information Resources:

- Have a question, but not sure where to start? The Arts Students’ Centre is your information resource for everything in Arts! Drop in at SS102, call them at 403-220-3580, or email them at artsads@ucalgary.ca. You can also visit the Faculty of Arts website at http://arts.ucalgary.ca/undergraduate which has detailed information on common academic concerns, including program planning and advice.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at 403-210-ROCK [7625] or visit them in the MacKimmie Library Block.

Student Support and Resources:

- See https://www.ucalgary.ca/registrar/registration/course-outlines for information on campus mental health resources, the Student Ombuds’ Office, Student Success Centre, Safewalk, and Emergency Evacuation and Assembly.
- Online writing resources are available at https://ucalgary.ca/student-services/student-success/writing-support.

Notes:

1. Students are responsible for all assigned material, e.g., supplementary material posted on D2L, regardless of whether or not the material was covered in class.

2. The plan is for four assignments (one for a micro tune up and one for each topic area). These assignments will have due dates (approximately 10 days from receiving them) and will be marked and returned to the students. Answer keys for the assignments will be provided.

MST
08-16-2022