Instructor: Lucija Muehlenbachs
Phone: (403) 220-7264
Email: lmuehlen@ucalgary.ca

Lecture Location: ST 131
Lecture Days/Time: TR 14:00 - 15:15

Office: ZOOM Delivery
Office Hours: R 15:30 – 16:30

Winter 2022

Course Description:
This course examines the links between economic activity and environmental degradation. Topics include the valuation of environmental amenities, the use of incentives in regulation, the economics and environmental effects of market failure and the rationale for government intervention.

Course Learning Outcomes:
At the end of the semester, students will be able to:

i. Define and apply key terms in environmental and natural resource economics and policy
ii. Explain how markets the benefits and limitations of markets in managing the environment
iii. Discuss, evaluate, and compare key policy tools to efficiently manage pollution
iv. Explain several revealed and stated preference non-market valuation techniques
v. Discuss and distinguish types of value from the environment
vi. Discuss non-efficiency objectives in environmental management
vii. Assess the distribution of costs and benefits of environmental policy across society

Tentative Course Outline:
Math Review; Markets and Externalities

***Keohane & Olmstead Chapters 1 and 2


Estimating the Demand for Environmental and Resource Amenities: Taxonomy of Value and Stated Preference Valuation

***Keohane & Olmstead Chapter 3


**Estimating the Demand for Environmental and Resource Amenities: Revealed Preference Valuation**


**Estimating Costs of Environmental Regulation**


**Coase and the Market Solution**

***Keohane & Olmstead Chapters 4 and 5 and pages 125-129 (in first edition)/pages 139-143 (in second edition).***


**Policy Tools: Direct and Indirect Taxes and Subsidies**

***Keohane & Olmstead Chapters 8 and 9***


**Policy Tools: Tradable Pollution Permits**

***Keohane & Olmstead Chapter 10***


**Decentralized Approaches (Information, Voluntary Compliance, and Liability)**


**Climate Change**


NOAA, “Restoration Economics: Discounting and Time Preference.”


**Integrated Assessment Models**


**Forests and Non-Timber Forest Products**

***Keohane & Olmstead, Chapter 7***
***Druckenmiller, Hannah, "Estimating an Economic and Social Value for Healthy Forests: Evidence from Tree Mortality in the American West"


**Species Preservation and Biodiversity**


**Natural Disasters**


**Prerequisites/corequisites:**
Economics 201.

**Required Textbook(s):**
Keohane and Olmstead, Markets and the Environment (Second edition is available at the bookstore and online at the library; First edition has the same chapter order).

**Recommended Textbook(s):**
Field and Field, Environmental Economics an Introduction (Physical copy on reserve at the library)

**Books on Reserve:**
Field and Field, Environmental Economics an Introduction (Physical copy on reserve at the library)

**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 and Final Examination Details:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIDTERM EXAM (FEB 17)</td>
<td>30%</td>
</tr>
<tr>
<td>ASSIGNMENTS (best 5 of 6)</td>
<td>25%</td>
</tr>
<tr>
<td>CLASS PARTICIPATION</td>
<td>5%</td>
</tr>
<tr>
<td>FINAL EXAMINATION</td>
<td>40%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
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The official grading system will be used. See http://www.ucalgary.ca/pubs/calendar/current/f-1-1.html.

A passing grade on minimum of 40% of the course work is required for a student to pass the course as a whole.

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 at the discretion of the instructor. The student must have written the midterm(s) or provided supporting documentation for the absence(s) such as a medical note or statutory declaration.

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.

Course material dealing with a particular assignment will typically be covered in class at least 5 days before the assignment is due; thus, assignments can be completed at any time up to and including the due date. Given these factors, only situations where someone can document illness or domestic affliction for an extended period (i.e., the entire 5 days prior to the due date) would possibly warrant
shifting the assignment weight to the final exam. Furthermore, technical problems can be expected to occur with computer systems (and internet availability) so it may be a good idea to not wait until the last minute to submit your assignment.

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.

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. Students are reminded that simply being able to access their cellphone during an exam is academic misconduct.

The in-class midterm will be held on February 17.

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:
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.

Student committing academic misconduct during the final exam will not receive a passing grade for the course.

For information on the Student Academic Misconduct Policy, Procedure and Academic Integrity, please visit: [https://www.ucalgary.ca/pubs/calendar/current/k-3.html]

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 policy on Student Accommodations is available at
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/access-information-privacy

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

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.

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.

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
   E-mail: econrep@fasaucalgary.ca
   Website: www.fasaucalgary.ca.


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 societyofundergradsineconomics@gmail.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 Tower.

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.

LM
2021-11-30