

Economics 377 (L01) (Economics and the Environment)

Instructor: Karam Jarad
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Lecture Location: ZOOM Delivery
Lecture Days/Time: MWF 15:00 – 15:50

Office: ZOOM Delivery <https://ucalgary.zoom.us/my/karamjarad>
Office Hours: MW 13:30 – 14:30

Winter 2024

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:

The goals of this course are:

- a) gaining a general knowledge of the various environmental problems that confront modern societies;
- b) developing an understanding of the specific economics perspective on these problems;
- c) becoming familiar with the main methods used in economics to measure costs and benefits of environmental protection;
- d) becoming familiar with the main policy tools normally used to address environmental problems.

More generally, the course will allow students to explore real-world applications of some of the microeconomic tools acquired in previous courses.

Course Outline:

Course material will follow a sequence similar to that of the textbook. However, students are encouraged to read the appropriate chapters in the supplementary textbooks and articles to benefit from additional explanations and examples.

- I. I Vision of the Future
- II. II Basic Concepts: Valuing the Environment: Concepts, Valuing the Environment: Methods, Property
- III. Rights, Externalities & Environmental Problems, Sustainable Development: Defining the Concept
- IV. III Overview of Environmental Economics
- V. IV Air Pollution: Stationary-Source: Local and Regional Air Pollution, Mobile Source Air Pollution
- VI. V Water and Water Pollution
- VII. VI Waste
- VIII. VII Biodiversity: Forest Habitat, Commercially Valuable Species
- IX. VIII Vision of the Future Revisited

Prerequisites/Corequisites:

Economics 201.

Required Textbook(s):

Field and Field, Environmental Economics an Introduction, 8th edition, McGraw-Hill Ryerson

Recommended Textbook(s):

Field and Olewiler, Environmental Economics, 4th Canadian edition, McGraw-Hill Ryerson.

Tietenberg, Tom, Elizabeth Wilman, and Peter Tracey, Environmental Economics and Policy, Canadian Edition, Pearson 2009.

Tietenberg, Environmental and Natural Resource Economics, 10th edition, Pearson.

Nordhaus, The Climate Casino, Yale University Press, 2013.

Required Access to Technology:

This course will be delivered online. Students are expected to be able to participate online in accordance with this Course Outline. Lectures, assignments, office hours, exams, readings and other course material, etc. all require online access and this access is the responsibility of the student.

In order to remotely participate in online courses, students will need to have: computer with a current and updated operating system (macOS or Windows will work with all university-supported online learning technologies), a current and updated web browser installed – the latest versions of Firefox, Safari, Chrome or Edge will help to avoid compatibility issues, secure and reliable internet, microphone / headphones, webcam (optional), scanner (or camera to scan your work).

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:

3 Tests, 15% each	45%	
Group Project and presentation	20%	Due Date: Monday, April 5, at the beginning of class.
Final Exam	<u>35%</u>	
	100%	

Examination Details:

Tests and exams WILL NOT involve multiple choice questions.

The tests are designed and intended to be completed in 50 minutes. The tests will be OPEN book, available on D2L. Student will download the exam from D2L, complete the exam, scan it, and submit using Dropbox in D2L. Student will have 50%-time extension to complete the exam. The common assessment time will be during class. For students who cannot write during the common assessment time the exam will be available the evening before the exam date. Students who cannot write the test during class time must send an email to the instructor indicating that they will write at the alternative time at least 24 hours before the alternative midterm time. If students experience difficulties within the common assessment time, the student must contact the instructor by email immediately to arrange an appropriate resolution. This resolution may involve additional time for completion of the exam or an alternative time to complete the exam.

The final examination will be comprehensive and scheduled by the Registrar. The exam is designed and intended to be completed in two hours. The exam will be OPEN book. Student will download the exam from D2L, complete the exam, scan it, and submit using Dropbox in D2L. Students will have three hours to complete the exam. The common final exam time begins three hours before the end time of the

Registrar's scheduled final exam for this course. If the exam time scheduled by the Registrar ends at 14:00, the online exam will begin at 11:00. For students who cannot sit the exam during the common exam window one alternate exam time will be scheduled during the 24-hours before the end of the Registrar's scheduled final exam for this course and will be communicated by instructor during the last week of the classes. Students who cannot write the final exam at the time scheduled by the Registrar's Office are required to notify the instructor that they will write at the alternative time by email to the instructor 48 hours before the end of the Registrar's scheduled final exam window. Students unable to write the final exam at either time must request a deferred exam. If students experience difficulties within the common assessment time, the student must contact the instructor by email immediately to arrange an appropriate resolution. This resolution may involve additional time for completion of the exam or an alternative time to complete the exam.

The exact date for the online tests will be announced at least one week in advance.

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>.

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.

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-3-4.html>. Under no circumstance will this be accommodated by the Department.

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.

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.3

<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 policy on Student Accommodations is available at

<https://www.ucalgary.ca/legalservices/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 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.
2. Please note that the following types of emails will receive no response: emails not addressed to anyone in particular; emails where the recipient's name is not spelled correctly; anonymous emails; emails in which the sender has not identified which course and section he/she is taking; and, emails involving questions that are specifically addressed on this course outline.