



UNIVERSITY OF
CALGARY

Department of Economics Course Outline

		Term:	Fall 2013
Course:	Economics 427 [Energy Economics & Policy]	Section:	01
Time:	MWF 0900-0950	Place:	SA 245 (subject to change)
Instructor:	W. D. Walls		
Office:	SS 544	Telephone:	220-6761
Office Hours:	MW 0950-1030 or by appointment	E-mail:	wdwalls@ucalgary.ca

Textbook(s):

There is no textbook for this course. The course draws heavily on journal articles. Students will not be held responsible for the more sophisticated mathematical and statistical material in some of the articles. The reading list will be posted on the course website available through the Blackboard web portal.

Other Reference Materials:

The US Department of Energy, Energy Information Administration (EIA) is an excellent source of current information on energy economics. Students should be familiar with its website (www.eia.doe.gov).

There are many articles in economic journals that may be of particular interest to this class, such as those published in *Annual Review of Energy*, *Journal of Energy and Development*, *The Energy Journal*, *Energy Economics*, *ENERGY---The International Journal*, and *Energy Policy*. For reference to other recent articles on the economics of the oil industry see the relevant sections (Q4) in the *Journal of Economic Literature*, the *Journal of Energy Literature*, and draw on ECONLIT as a journal search engine.

Governments also publish useful material on the energy industries. In Alberta, material from the Energy and Utilities Board and Alberta Department of Energy are of particular interest. For the Canadian federal government, see the National Energy Board, the Science Council of Canada, the Geologic Survey of Canada and Department of Natural Resources. For the US see the Department of Energy (especially the Energy Information Administration), and Federal Energy Regulatory Commission. The OECD also has a number of interesting recent publications on energy, including publications of the International Energy Agency (IEA). The Canadian Energy Research Institute (CERI) also publishes several sector-specific reports that provide up-to-date information.

Course Objectives:

This course covers both theoretical and empirical analysis of individual and industrial demand for energy, energy supply, energy markets, and public policies affecting energy markets. The course will cover applications to oil, natural gas, coal, electricity, and nuclear power. Topics will include energy taxation, price regulation, deregulation, energy efficiency and emissions.

Course Outline

- Introduction and Background
- Review of the Basics of Supply, Demand and Price Formation in Competitive Markets
- Energy Demand: Short Run and Long Run Price and Income Elasticities; review of Multivariate Regression Analysis
- Energy Supply and the Economics of Depletable Resources
- World Oil Markets and Energy Security
- Natural Gas Price Regulation, Deregulation and Markets
- Electricity
- Risk Management, Futures Markets and Derivatives
- Energy and Climate Change
- Internalizing Environmental Externalities with a Focus on Cap and Trade Mechanisms
- Coal
- Nuclear Power
- Energy Efficiency Policies
- Renewable Energy Policies

Note: The course objectives, outline and readings have drawn upon the Energy Economics course materials of the MIT OpenCourseWare project.

Grade Determination and Final Examination Details:

The grade will be based upon three in-class quizzes and one term paper and a final exam as follows:

In-class Quizzes (3 @ 15% each)	45%
Term Paper	25%
Final Exam	30%

The final course grade will be obtained by weighting the numerical values (rather than letter grades) and translating the numerical result back into a final letter grade for the course. The overall numerical score will be rounded off the nearest whole number. The numerical-letter grade cut-off values will be as follows:

A+	99-100	B	82-87	C-	70-71
A	92-98	B-	80-81	D+	68-69
A-	90-91	C+	78-79	D	60-67
B+	88-89	C	72-77	F	0-59

Deviations from the conversion chart listed above will only be made if it *improves student grades*.

Non-programmable calculators *will be allowed* during the writing of quizzes and the final exam.

Notes:

- Students seeking reappraisal of a piece of graded term work (term paper, essay, etc.) should discuss their work with the Instructor *within fifteen* days of the work being returned to the class.
- Students' papers will be returned during regular class time. Papers may also be picked up by students during regular Office Hours. Uncollected term work will be discarded.
- **THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES** under any circumstances, nor may the quizzes be written early. Students unable to write the quizzes because of *documented* illness, family emergency or religious observance will have the weight shifted to the final exam.
- It is the student's responsibility to request academic accommodations. If you are a student with a documented physical, psychological, emotional, nasal, or social disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.

Students' Union Vice-President Academic:

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Society of Undergraduates in Economics (S.U.E.):

www.ucalgary.ca/sue

Society of Undergraduates in Economics is a student run organization whose main purpose is to assist undergraduate economics students succeed both academically and socially at the University of Calgary. Services include access to the exam bank, career partnerships with the Career Centre through hosting industry nights and information sessions, recognizing achievements in teaching, and organizing social events for members. They invite you to join by contacting sue@ucalgary.ca.

Faculty of Arts Program Advising and Student Information Resources

- Have a question, but not sure where to start? The Faculty of Arts Program Information Centre (PIC) 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.

- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at 403-220-5881 or visit them on the 3rd Floor of the Taylor Family Digital Library.
- 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.
- Online writing resources are available at <http://ucalgary.ca/ssc/writing-support/online-writing-resources>

Safewalk / Campus Security: 220-5333
Emergency Assembly Location – Social Sciences Food Court

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