



Department of Economics Course Outline

		Term:	Winter 2008
Course:	Economics 599.27 [Energy Economics & Policy]	Section:	02
Time:	MWF 0800 – 0850	Place:	SA 121 (subject to change)
Instructor:	Dr. W. D. Walls		
Office:	SS 448	Telephone:	220-6761
Office Hours:	MW 1000-1100 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 located at <http://pareto.ucalgary.ca/courses>. As this is a new course, the reading list will evolve over the course of the term.

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).

Students should be aware of a number of journals which include up-to-date material on energy economics. Of particular interest to this class may be those in Annual Review of Energy, Canadian Public Policy, Journal of Energy Development, The Energy Journal, Energy Economics, and Energy Policy. For reference to other recent articles on the economics of the oil industry see the relevant sections in the Journal of Economic Literature, and draw on ECON-LIT 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. This is a new course, so the exact coverage will evolve as the term progresses.

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 6 Electricity
- Risk Management, Futures Markets and Derivatives
- Energy and Climate Change 9 Internalizing Environmental Externalities with a Focus on CO₂ Emissions Cap and Trade Mechanisms
- Coal
- Nuclear Power
- Energy Efficiency Policies
- Renewable Energy Policies

Note: The course objectives, outline and readings draw 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, one term paper, and the final exam as follows:

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

The final exam will be scheduled by the Registrar and held in the classroom. It will be of two hours duration.

The final course grade will be obtained by weighting the numerical values (rather than letter grades) on the various exams and translating the numerical result back into a final letter grade for the course. The numerical-letter grade cut-off values will be as follows:

A+	99-100	B	69-75	C-	50-53
A	84-98	B-	65-68	D+	46-49
A-	80-83	C+	61-64	D	40-45
B+	76-79	C	54-60	F	0-39

If, for some reason, the distribution of grades determined using the aforementioned conversion chart appears to be abnormal, the instructor reserves the right to change the grade conversion chart if the instructor, *at the instructor's sole discretion*, feels it is necessary to more fairly represent student achievement.

A passing grade on any particular component of the course is not required for a student to pass the course as a whole.

Non-programmable calculators will be allowed during the writing of tests or final examinations.

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 or at the time of the final exam. Papers may also be picked up by students during regular Office Hours.
- Make-up examinations and deferred examinations will not be given except in cases of extreme personal emergencies. Also examinations will not be given before the indicated examination dates.
- It is the student's responsibility to request academic accommodations. If you are a student with a documented 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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www.ucalgary.ca/sue/

Safewalk / Campus Security: 220-5333
