



Department of Economics Course Outline

Term: Spring 2004

Course: Economics 209
[Engineering Economics]

Section: [20]

Time: Lecture 20 MW 09:00 ? 11:50
Tutorial 20 M 12:00 ? 13:50
Tutorial 21 W 12:00 ? 13:50

Place: ENE 239 (subject to change)
ENA 003 - Tutorial
ENA 003 - Tutorial

Instructor: Professor R.C. Schlenker

Office: SS 447

Telephone: 220-6550
220-5857 (messages)

Office Hours: MW 12:00 ? 13:50 (in tutorial)

E-Mail:

Textbook(s):

Park, Porteous, et al., *Contemporary Engineering Economics (Canadian Perspective)*, Addison-Wesley, 2nd Canadian ed.

Book(s) on Reserve:

None.

Course Outline:

A successful engineer requires a basic knowledge of economics, in addition to science and engineering. This course will introduce you to the concepts and methods utilized in engineering economics. The primary concept that you will learn is the time value of money. You will also learn problem solving methods and apply these to a variety of engineering decisions such as equipment replacement and selection among new investment alternatives.

Tutorials:

There will be an hour long tutorial each week, scheduled by the Faculty of Engineering. Quizzes will be held in the tutorials.

Outline of Topics and Textbook References:

- Methodology and Basic Concepts of Economics - Chapter 1 and lecture notes.
- Interest and the Value of Money over Time - Chapters 2 and 3.
- Project Evaluation - Chapters 4, 5 and 6.
- Public Sector Projects - Chapter 14.
- Analysis of Uncertainty and Risk - Chapter 13.
- Depreciation and Taxation - Chapters 7, 8 and 9.
- Inflation - Chapter 12.
- Replacement Analysis - Chapter 11.
- Capital Budgeting - Chapter 10 (time permitting).

Grade Determination and Final Examination Details:

Quizzes will be on the following dates: May 26/31, June 2/7, June 14/16, June 21/23.

There will be weekly quizzes in the tutorials. Quizzes will account for 15% of the final grade. Practice questions will be assigned. Students are not required to hand these in, but it is highly recommended that they be completed. A passing grade on any particular component of the course is not essential if the student is to pass the course as a whole.

Any calculator (programmable or non-programmable) will be allowed during the writing of tests or final examinations.

There will be a mid-term exam on June 9th worth 35% of the final grade. The final examination will be scheduled by the Registrar (June 28, 29 or 30) and held in the gymnasium. It will be two hours long and will be worth 50% of the final grade.

Tests and final exams are marked on a numerical (percentage) basis, then converted to letter grades. The course grade is then calculated using the weights indicated above. As a guide to determining standing, these letter grade equivalences will generally apply:

A+	98-100	B	75-79	C-	60-62
A	90-97	B-	70-74	D+	55-59
A-	85-89	C+	67-69	D	50-54
B+	80-84	C	63-66	F	0-49

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 discretion*, feels it is necessary to more fairly represent student achievement.

Multiple choice questions will appear on the midterm.

Notes:

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

whole.

- Students should be aware that generally no "make-up" exams will be given. Any student who finds it necessary to miss an examination or assignment must notify the instructor in advance and produce a valid medical certificate or other required documentation in order to have the weighting moved to another piece of work. Note that deferred final examinations do not have to cover the same material or have the same format as the regular final examination.
- Students should be aware of the academic regulations outlined in the University of Calgary Calendar.
- Students seeking reappraisal of a piece of graded term work should discuss their work with the instructor *within* one week of work being returned to class. However, the earliest that grades will be discussed will be two days after the return of an assignment or examination.
- Students will be responsible for all material listed on the course outline, regardless of whether or not the material has been covered in class, unless the instructor notifies the class that the material will not be covered.

Students? Union Vice-President, Academic:

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RCS:pst

2004-03-31