

Economics 209 (L01) (Engineering Economics)

Instructor:	Karl Pinno	Lecture Location:	CHC 105
Phone:	220-5886	Lecture Days/Time:	TTH 17:00-18:15
		TUT 1 T 16:00 - 16:50	CHC 105
		TUT 2 W 17:00 - 17:50	CHC 105
Email:	kpinno@shaw.ca		
Office:	SS 405		
Office Hours:	by appointment or right after class Winter 2015		

Textbook(s):

Park, Zuo et al., *Contemporary Engineering Economics (Canadian Perspective)*, AddisonWesley, 3rd Canadian Edition [**Required Text**]

Mankiw et al. *Principles of Macroeconomics*. Sixth Canadian Edition. Toronto: Thomson Nelson [Optional Text]

Note: the Fourth and Fifth edition can also be used.

Book(s) on Reserve:

Mankiw et al. *Principles of Macroeconomics*. Fifth Canadian Edition. Toronto: Thomson Nelson

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> using or through their student centre. Please note that D2L features a class e-mail list that may be used to distribute course-related information. The default is your University of Calgary e-mail address.

Course Outline:

The purpose of this course is to introduce the engineering student to the discipline of economics and its importance in the field of engineering. The first part of the course looks at the broad definition of economics and the concept of supply and demand and price elasticity. We then turn our focus on the important macroeconomic issues such as GDP, inflation, business cycle theory, and the financial markets.

The second (and most comprehensive) part of the course examines the time value of money and how engineers use the time value of money to make important economic decisions. In this section, we examine how interest rates and different compounding periods influence the future value of various capital investments. Future value and present value of annuities, bond and mortgages are also explored. Once we get a solid foundation in this area, we then use these tools to determine the net present value, internal rate of return and payback period of various investment options. The last part of the course deals with the effects of depreciation, taxes and inflation on capital budgeting decisions. Replacement analysis of equipment is also examined.

Course Topics	Text
1. Introduction	<i>Lecture notes</i> Chapter land 2 (<i>Mankiw et al.</i>)
2. Micro and Macroeconomics	<i>lecture notes</i> Chapters 4,5,6,9 & 10 (<i>Mankiw et</i>
3. Time Value of Money and Economic Equivalence	Chapters 3 and 4 (<i>Park et al.</i>)
4. Analysis of Independent Projects / Mutually Exclusive Alternatives	Chapters 5 and 6
5. Depreciation and Income Taxes	Chapters 8 and 9
6. Developing After Tax Cash Flows (with and without borrowed funds)	Chapter 10
7. Replacement Decisions	Chapter 11
8. Inflation and Project Cash Flows	Chapter 14

The basic lecture notes for Course Topics #1 and #2 (without graphs) will be provided in Desire2Learn. These notes are usually posted after the lecture so attendance to the lecture is important. Any graphs and additional notes that students may wish to take down can be added to the notes from Desire2Learn.

Grade Determination and Final Examination Details:

	Number	Percentage
Midterm Examination (Date: Thursday March 5 th)	1	30%
Quizzes (highest 4 marks will be selected)	5	20%
Final Examination		50%
Total		100%

Midterm will be held in class on Thursday March 5th.
Quiz dates will be announced during the first two weeks of lectures.

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 apply:

A+	95 – 100	B	73 – 76	C-	60 – 62
A	85 – 94	B-	70 – 72	D+	56 – 59
A-	80 – 84	C+	67 – 69	D	50 – 55
B+	77 – 79	C	63 – 66	F	0 – 49

1. Quizzes 1 and 2 will consist of multiple choice questions. Quizzes 3 - 5 will consist of numerical problems. Quizzes will be held in tutorials.

2. The midterm exam will consist of multiple choice and short/answer questions. Some of the short answer questions will consist of a graph (together with a written explanation) and/or calculations. The midterm exam will be held during regular class time.

3. The final exam will last two hours and will be scheduled by the Registrar's Office. The final exam will consist of numerical problems.

4. Non-programmable calculators **WILL** be allowed during the writing of tests or final examinations.

5. No "make up" exams will be given. If you find it necessary to miss an exam, notify me (in advance if possible) and produce a valid medical certificate. If a student misses a midterm exam, eighty percent (80%) of the final course grade will be allocated to the final exam. In the event that a deferred final exam is granted, keep in mind that this exam does not have to cover the same material or have the same structure (e.g. format) as the regular final exam.

6. Programmable (graphing) calculators, Blackberry's, laptops, tablets, cell phones and any other electronic device are not to be used in any exam.

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

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.
- 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:

Hana Kadri

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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 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 Library Block.
- Online writing resources are available at <http://www.ucalgary.ca/ssc/resources/writing-support>

Safewalk/Campus Security: 403 220 5333
Emergency Assembly Point: Professional Faculties Food Court

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