



Department of Economics Course Outline

Course:	Economics 389 [Introduction to Mathematical Economics I]	Term:	Winter 2013
Time:	TR 14:00-15:15	Section:	01
Instructor:	Dr. L. Yuan	Place:	SS109 (subject to change)
Office:	SS 416	Telephone	220-5863 (Office) 220-5857 (Department)
Office Hours:	TR 11:00 – 11:50 and by appointment	E-mail:	yuan@ucalgary.ca

Textbook(s):

Required:

Chiang, A. and K. Wainwright, *Fundamental Methods of Mathematical Economics*, McGraw-Hill, 2005, 4th edition.

Recommended:

Dowling, E., *Schaum's Outline of: Theory and Problems of Introduction to Mathematical Economics*, McGraw-Hill, 2001, 3rd edition.

Book(s) on Reserve:

- Baldani, J., Bradfield, J., & R. Turner, *Mathematical Economics*, Thomson, Southwestern 2005, 2nd edition.
- Chiang, A. and K. Wainwright, *Fundamental Methods of Mathematical Economics*, McGraw-Hill, 2005, 4th edition.
- Zeith, Paul, *the Art and Craft of Problem Solving*, Wiley, 2006.
- Dowling, Edward T., *Schaum's Outline of: Theory and Problems of Introduction to Mathematical Economics*, McGraw-Hill, 2001, 3rd edition.
- Engel, Arthur, *Problem Solving Strategies*, Springer.
- Vakil, Ravi, *A Mathematical Mosaic: Patterns and Problem Solving*, Brendan Kelly Publishing.
- Hands, D. Wade, *Introductory Mathematical Economics*, Oxford University Press, 2004, 2nd edition.
- Hess, Peter, *Using Mathematics in Economic Analysis*, Prentice Hall, 2002.
- Hoy, M., Livernois, J., McKenna, C., Rees, R. & T. Stengos, *Mathematics for Economics*, Addison-Wesley, 2nd edition, 2001.

- Klein, Michael, *Mathematical Methods for Economics*, Addison Wesley, 2nd edition, 2002.
- Ostaszewski, A., *Advanced Mathematical Methods*, Cambridge University Press, 1990.
- Rowcroft, John E., *Mathematical Economics: An Integrated Approach*, Prentice Hall, 1994.
- Simon, C. and L. Blume, *Mathematics for Economists*, W.W. Norton and Co., 1994.
- Sydsaeter, K. and P. Hammond, *Mathematics for Economic Analysis*, Prentice-Hall, 1995.
- Toumanoff, P. & F. Nourzad, *A Mathematical Approach to Economic Analysis*, West Publishing Co., 1994.
- Birchenhall, C. et al *Mathematics for Modern Economists*, Barnes and Noble Books, 1984.

Course Outline:

This course provides instruction in basic tools of mathematical economics and their applications to economic analysis. Techniques discussed include elementary algebra, linear algebra, single and multivariable calculus, optimization, equilibrium analysis and comparative static analysis.

Grade Determination and Final Examination Details:

Midterm Exam I	25%
Midterm Exam II	25%
Final Examination	50%

In addition to the exams, several assignments (not to be graded) will be distributed. Students will be strongly encouraged to complete the assignments as preparation for the exams.

All examinations will be *closed book*. Calculators *will not be allowed* on any examination.

The final examination will be scheduled by the Registrar in the classroom and will last two hours. It will be a comprehensive examination of all material covered in the course. A numerical grade will be determined for each exam and a final numerical grade will be determined using the above percentage weighting scheme. A course letter grade will be assigned based upon the following conversion chart. A passing grade on any particular exam is not essential to pass the course as a whole.

A+	96 – 100	B	76 – 80	C-	60 – 62
A	90 – 95	B-	70 – 74	D+	57 – 59
A-	86 – 89	C+	67 – 69	D	50 – 56
B+	81 – 85	C	63 – 66	F	0 – 49

Tests and exams will not involve multiple choice questions.

Finally, special attention should be directed toward the sections concerning attendance, tape recording of lectures, and student misconduct, on pages 40-52 of the 2011-2012 Calendar. .../3

Students' Union Vice-President Academic:

Ola Mohajer

Phone: 220-3911

E-mail suypaca@ucalgary.ca

Students' Union Faculty Representative (Arts)

Phone: 220-3913 Office: MSC 251

E-mail arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca

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. Join now by contacting sue@ucalgary.ca.

Faculty of Arts Program Advising and Student Information Resources

- Have a question, but not sure where to start? The new Faculty of Arts Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS110, call us at 403-220-3580 or email us 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 in their new space 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 at the MacKimmie Library Block.

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.
- Make-up or deferred examinations will not be given. Any student who finds it necessary to miss an exam must notify the instructor in advance and produce a valid medical certificate or other required documentation in order to have the weighting transferred to the final exam. Exam answers submitted late will receive a grade of zero. Also, exams

will not be given *before* the above-indicated dates.

- E-mail Policy: The Instructor strongly prefers to interact with students in person. If necessary, use e-mail only to arrange a time to see the Instructor.
- Although no grades are awarded for assignments, students are strongly encouraged to undertake problem solving as the principal way to learn course material. Numerous solved (and unsolved) problems are available in the required and recommended texts and in the books on reserve. **Procrastination in tackling and solving problems can have serious adverse consequences because the course material is cumulative.**
- **CAUTION:** Lectures and text readings are complements, not substitutes, and students are responsible for material presented in both lectures and readings. **Regular class attendance is very strongly advised.**
- 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.

Safewalk / Campus Security: 220-5333
Emergency Assembly Point – ICT Food Court
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