Department of Economics
Course Outline

		Term:	Winter 2004
Course:	Economics 389 [Introduction to Mathematical Economics II]	**Section:**	01
Time:	MWF 14:00 ? 14:50	**Place:**	ST 125 (subject to change)
Instructor:	Dr. J. G. Rowse		
Office:	SS 452	**Telephone:**	220-6109 (Office) 220-5857 (Department)
Office Hours:	MW 09:30 ? 10:30 F 10:30 ? 11:30	**E-Mail:**	rowse@ucalgary.ca

Textbook(s):

Required

:

- Chiang, A., *Fundamental Methods of Mathematical Economics*, McGraw-Hill, latest edition.
- Dowling, E., *Schaum's Outline of: Theory and Problems of Introduction to Mathematical Economics*, McGraw-Hill, latest edition.

Book(s) on Reserve:

- Baldani, J., Bradfield, J., & R. Turner, *Mathematical Economics*, Dryden Press, 1996.
- Birchenhall, C. and P. Grout, *Mathematics for Modern Economics*, Barnes and Noble, 1984.
- Chiang, A., *Fundamental Methods of Mathematical Economics*, McGraw-Hill, 3rd ed., 1984.
- Dowling, Edward T., *Schaum's Outline of: Theory and Problems of Introduction to Mathematical Economics*, McGraw-Hill, 3rd ed. 2001.
- Glaister, S., *Mathematical Methods for Economists*, Blackwell, 3rd ed.., 1984.
- Hadley, G., *Linear Algebra*, Addison-Wesley, 1961.
- Hands, D. Wade, *Introductory Mathematical Economics*, Oxford University Press, 2nd ed., 2004..
- 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 ed., 2001.
- Klein, Michael, *Mathematical Methods for Economics*, Addison Wesley, 2nd ed. 2002.
- Ostaszewski, A., *Advanced Mathematical Methods*, Cambridge University Press, 1990.
- Rowcroft, John E., *Mathematical Economics: An Integrated Approach*, Prentice Hall, 1994. ?/2
- 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.

Course Outline:

This course provides further essential mathematical background for economics, including more advanced optimization, integration, basic methods of dynamic analysis, and economic applications.

Grade Determination and Final Examination Details:

Exam I	**Monday, March 1, 2004**	**25%**
Exam II	**Monday, March 29, 2004**	**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. Students will be allowed the use of a calculator during all examinations, subject to the following restrictions: acceptable calculators are those which are battery- or solar-operated and hand-held, and which are capable of performing arithmetic operations on user-entered numerical data. Calculators which can pre-store data, formulas or text are not allowed and a student who violates these restrictions is guilty of academic dishonesty. If in doubt, check with the instructor first.

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+	90 - 100	B	73 - 76	C-	60 - 62
A	83 - 89	B-	70 - 72	D+	57 - 59
A-	80 - 82	C+	67 - 69	D	50 - 56
B+	77 - 79	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.

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 - 41 and pages 50 - 53 of the 2003-2004 Calendar.

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Notes:

- Students seeking reappraisal of a piece of graded term work (term paper, essay, etc.) should discuss their work with the Instructor within two weeks 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.

Safewalk / Campus Security: 220-5333

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JGR:pml
2003-11-04