



Department of Economics Course Outline

	Term: Fall 2014
Course: Economics 387 [Mathematical Economics I]	Section: 01
Time: TR 09:30-10:45	Place: MS 319
Instructor: Dr. John R. Boyce	
Office: SS412	Telephone: 403 220 5860
Office Hours: Wednesday 12:30-14:30	E-mail: boyce@ucalgary.ca

Textbook(s): (These texts are interchangeable.)

- Hoy, Michael, John Livernois, Chris McKenna, Ray Rees, and Thanasis Stengos, *Mathematics for Economics*, MIT Press, 2011, 3rd Edition. (In bookstore)
- Chiang, A., and K. Wainwright, *Fundamental Methods of Mathematical Economics*, McGraw-Hill, 2005, 4th Edition. (Available through Amazon, etc.)

Book(s) on Reserve:

None

Course Outline:

This course introduces students to the application of mathematical methods in economic theory. Techniques discussed include linear algebra, single and multivariable calculus, optimization (unconstrained, equality constrained, inequality constrained, and dynamic), equilibrium analysis, comparative static analysis, differential and difference equations, and analysis and optimization of dynamical systems. Applications from microeconomic and macroeconomic theory and econometrics are used to illustrate concepts throughout the course.

Grade Determination and Final Examination Details:

Course Component	Date	Percent of Grade
Assignment 1	Due Friday, September 19	7%
Assignment 2	Due Friday, October 3	7%
Assignment 3	Due Friday, October 17	7%
Assignment 4	Due Friday, November 14	7%
Assignment 5	Due Friday, November 28	7%
<i>Midterm Exam</i>	<i>Tuesday, October 28</i>	30%
<i>Final Exam</i>	<i>Registrar Scheduled</i>	35%
<i>Total</i>		100%

Cheating on an examination shall constitute failure to pass the course.

Examinations and assignments are marked on a numerical basis. The course grade is calculated using the above weights. The following letter grade / minimum percentage equivalences apply:

A+	99%	B	80	C-	60
A	95	B-	75	D+	55
A-	90	C+	70	D	50
B+	85	C	65	F	<50

Non-programmable calculators will be allowed during the writing of all examinations.

There will be a Registrar scheduled final examination.

Tests and exams may involve multiple choice questions.

Students who are unable to write the midterm because of an illness, family emergency or religious observance will have the midterm weight shifted to the final examination. Documentation MUST be provided.

Contacts

Students' Union Vice-President Academic:

Hana Kadri

Phone: 403-220-3911

E-mail suypaca@ucalgary.ca

Students' Union Faculty Representative (Arts)

Phone: 403-220-3913 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. 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 Faculty of Arts Program Information Centre (PIC) 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.

- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at 403-220-5881 or visit them 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 in the MacKimmie Library Block.
- Online writing resources are available at <http://ucalgary.ca/ssc/writing-support/online-writing-resources>

Notes:

- 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 403-220-8237. 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 seeking reappraisal of a piece of graded term work should discuss their work with the instructor *within fifteen days* of work being returned to class.

Safewalk / Campus Security: 403-220-5333
Emergency Assembly Point: Social Sciences Food Court

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JRB/mi
2014-08-20