

School of Economics and Finance

Econ314 Game Theory

Trimester Two 2012

COURSE OUTLINE

Names and Contact Details

Lecturer and Coordinator

Jack Robles
Room RH 317
Office Hours: Tuesday 1-3 or by appointment.
Tel: (04) 463-7492
Mail Box: Mezzanine Floor, RH, **Box # 72**
Email: jack.robles@vuw.ac.nz

Tutor

Amanda Cameron
Mail Box: **Box # 71**

Class Times and Room Numbers

Lecture Times and Location

Tuesday & Thursday: 11:30am - 12.20pm in GB LT 4

Tutorial Times and Location

Wednesday 11:30 in RWW413
Thursday 1:40 in RWW 315
Thursday 2:40 and 3:40 in RWW 314
There are NO tutorials in weeks 1,2, 5, and 8 (18 and 19 July, 25 and 26 July, 15 and 16 August, 19 and 20 September.)

Assessment Requirements

The assessment for the course consists of two assignments, a test, and a final examination.

Assignment 1	10%	Thursday, August 23rd
Assignment 2	10%	Thursday, October 18th
Test (1 hour)	30%	6:30 PM Thursday, September 20 th (RH LT 2)
Final Exam (2 hour)	50%	Date TBA

Your assessed work may also be used for quality assurance purposes, such as to assess the level of achievement of learning objectives as required for accreditation and audit purposes. The findings may be used to inform changes aimed at improving the quality of FCA programmes. All material used for such processes will be treated as confidential, and the outcome will not affect your grade for the course.

Mandatory Course Requirements There are no mandatory course requirements.

Penalties

Assignments are to be placed in Amanda's mail box (#71) by 5PM of the due date.

Assignments will not be accepted more than 1 week late, and will have 5% deducted per day (rounded up) late. Late assignments must be dated by an SEF staff member.

Course Content

1. Decision Theory
2. Extensive Form Games
3. Normal Form Games and the 'Bayes Normal Form'
4. Common Knowledge and Rationalizability (in the normal form)
5. Nash Equilibrium
6. Subgame Perfect Nash Equilibrium
7. Bargaining
8. Repeated Games
9. Adverse Selection and Signalling
10. Extensive Form Rationalizability
11. Extra topics: Zero sum games and cost sharing.

Readings

Watson, "Strategy; An Introduction to Game Theory" Either the first or second edition is fine.

Communication of Additional Information

Additional information will be announced either in lecture or on blackboard.

Trimester Dates

Teaching Period: Monday 16 July – Friday 19 October

Study Period: Monday 22 October – Thursday 25 October (Monday 22 October is a public holiday, Labour Day)

Examination Period: Friday 26 October – Saturday 17 November (inclusive)

Enrolled students are obliged to attend an examination at the University at any time during the examination period.

Withdrawal from Course

Your fees will be refunded if you withdraw from this course on or before 27 July 2012.

The standard last date for withdrawal from this course is 28 September. After this date, students forced to withdraw by circumstances beyond their control must apply for permission on an 'Application for Associate Dean's Permission to Withdraw Late' including supporting documentation

The application form is available from either of the Faculty's Student Customer Service Desks.

Course Learning Objectives

By the end of this course, students should be able to:

1. apply microeconomic theory at an advanced undergraduate level
2. formally describe simple economic settings in game theoretic terms

3. identify Nash equilibria in pure and mixed strategies for a range of simple games
4. identify a range of types of equilibria, such as subgame perfect Nash equilibria, Bayesian Nash equilibria and perfect Bayesian equilibria, for appropriate games.

Course Delivery

is via lectures and tutorials.

Expected Workload

This is a 15 point course which implies a workload = 150 hours. Hours expected per week = 11.5 (over 13 weeks), or 12.5 (over 12 weeks). This is a guide only and individual students should not feel constrained by it.

Class Representative

A class representative will be elected in the first class, and that person's name and contact details made available to VUWSA, the Course Coordinator and the class. The class representative provides a communication channel to liaise with the Course Coordinator on behalf of students.

For the following important information follow the links provided:

Academic Integrity and Plagiarism

<http://www.victoria.ac.nz/home/study/plagiarism.aspx>

General University Policies and Statutes

[Find key dates, explanations of grades and other useful information at www.victoria.ac.nz/home/study](http://www.victoria.ac.nz/home/study)

[Find out about academic progress and restricted enrolment at](http://www.victoria.ac.nz/home/study/academic-progress.aspx)

<http://www.victoria.ac.nz/home/study/academic-progress.aspx>

[The University's statutes and policies are available at](http://www.victoria.ac.nz/home/about/policy)

www.victoria.ac.nz/home/about/policy, except qualification statutes, which are available via the Calendar webpage at <http://www.victoria.ac.nz/home/study/calendar.aspx> (See Section C).

[Further information about the University's academic processes can be found on the website of the Assistant Vice-Chancellor \(Academic\) at](http://www.victoria.ac.nz/home/about_victoria/avcacademic/default.aspx)

www.victoria.ac.nz/home/about_victoria/avcacademic/default.aspx

AVC (Academic) Website: information including: Conduct, Academic Grievances, Students with Impairments, Student Support

http://www.victoria.ac.nz/home/about_victoria/avcacademic/Publications.aspx

Faculty of Commerce Office

<http://www.victoria.ac.nz/fcom/studenthelp/>

Te Putahi Atawhai

Maori and Pacific Mentoring Programme

<http://www.victoria.ac.nz/tpa/>

