ECON 4411/8011
Microeconomic Theory

The course will focus on Microeconomic theory as an approach to organizing economic ideas through modelling. This course will examine some basic components of economic theory concerning the allocation of scarce resources: individual non-strategic decision making by consumers and firms, Markets and General Equilibrium, Game Theory for extending the models of consumers and producers to strategic settings (with an emphasis on asymmetric information and mechanism design), and models of how decisions are made in non market settings through political institutions or within firms.

Along the way we will consider how to include uncertainty in models and how to establish the existence of equilibria/optima and the comparative static properties of these predicted outcomes.

<table>
<thead>
<tr>
<th>Mode of Delivery</th>
<th>On campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>ECON 2125/8013</td>
</tr>
<tr>
<td>Incompatible Courses</td>
<td>The two course numbers of this course are not compatible with each other as they are the same</td>
</tr>
</tbody>
</table>

Co-taught Courses

Course Convener: Ruitian Lang

Phone: 57325

Email: ruitian.lang@anu.edu.au

Office hours for student consultation: Tuesday 2pm to 3:30pm

Research Interests: Dynamic games and mechanism design

Relevant administrator if any (optional): Nicole Millar

Phone:

Email: enquiries.rse@anu.edu.au

Lecturer(s): Ruitian Lang

Phone(s): 57325

Email(s): ruitian.lang@anu.edu.au

Office hours for student consultation:

Tutor(s) (optional):

SEMESTER 1 2017
COURSE OVERVIEW

Versions of the Course
ECON 4411 and ECON 8011 are the same course.

Learning Outcomes
Upon successful completion of the requirements for this course, students will be able to:

1. Individual Decision Makers State and prove the fundamental properties of consumer and producer behaviour in neoclassical economics

2. Markets explain and apply the results of, Game Theory and General Equilibrium in understanding the properties of basic market structures.

3. Uncertainty explain and apply the results of, and methods used in, expected utility theory

4. Modelling Describe relevant economic situations as games or optimization problems.

5. Solving Use curvature and monotonicity properties to establish the solutions and comparative static properties for relevant economic models.

Assessment Summary

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date (Indicative)</th>
<th>Date for Return of Assessment</th>
<th>Linked Learning Outcomes (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Assignment 1</td>
<td>5%</td>
<td>3rd March</td>
<td>10th March</td>
<td>1 and 5</td>
</tr>
<tr>
<td>2. Assignment 2</td>
<td>5%</td>
<td>17th March</td>
<td>24th March</td>
<td>3 and 5</td>
</tr>
<tr>
<td>3. Optional Mid-semester Exam</td>
<td>30%</td>
<td>Week 6 or 7</td>
<td>TBA</td>
<td>1,2,3, and 5</td>
</tr>
<tr>
<td>4. Assignment 3</td>
<td>5%</td>
<td>14th April</td>
<td>21st April</td>
<td>2 and 4</td>
</tr>
<tr>
<td>5. Assignment 4</td>
<td>5%</td>
<td>28th April</td>
<td>5th May</td>
<td>4</td>
</tr>
<tr>
<td>6. Final exam</td>
<td>50%</td>
<td>Exam period</td>
<td>TBA</td>
<td>1 to 5</td>
</tr>
</tbody>
</table>

Research-Led Teaching
Modern economic research involves either developing theoretical models or analyzing empirical data (or both). This course prepares students for the former research approach by both introducing them to some major mathematical tools used in microeconomic research and laying down the foundation of the microeconomic theory. Whenever possible, the course highlights the limitation of the classical theory, which open doors to research topics.
Feedback

Staff Feedback
Students will receive online feedback on their homework through Turnitin. Exam books will be marked and can be viewed by the students.

Student Feedback
ANU is committed to the demonstration of educational excellence and regularly seeks feedback from students. One of the key formal ways students have to provide feedback is through Student Experience of Learning Support (SELS) surveys. The feedback given in these surveys is anonymous and provides the Colleges, University Education Committee and Academic Board with opportunities to recognise excellent teaching, and opportunities for improvement.

For more information on student surveys at ANU and reports on the feedback provided on ANU courses, go to http://unistats.anu.edu.au/surveys/selt/students/ and http://unistats.anu.edu.au/surveys/selt/results/learning/

Policies

ANU has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University's academic standards, and implement them. You can find the University's education policies and an explanatory glossary at: http://policies.anu.edu.au/

Students are expected to have read the Academic Misconduct Rule before the commencement of their course.

Other key policies include:

- Student Assessment (Coursework)
- Student Surveys and Evaluations

Required Resources

Commonwealth supported students and domestic full-fee paying students generally must be able to complete the requirements of their program of study without the imposition of fees that are additional to the student contribution amount or tuition fees.

Provided that its payment is in accordance with the Act, a fee is of a kind that is into any one or more of the following categories:

(a) It is a charge for a good or service that is not essential to the course of study.

(b) It is a charge for an alternative form, or alternative forms, of access to a good or service that is an essential component of the course of study but is otherwise made readily available at no additional fee by the higher education provider.

(c) It is a charge for an essential good or service that the student has the choice of acquiring from a supplier other than the higher education provider and is for:

(i) equipment or items which become the physical property of the student and are not consumed during the course of study; or
(ii) food, transport and accommodation costs associated with the provision of field trips that form part of the course of study.

(d) It is a fine or a penalty provided it is imposed principally as a disincentive and not in order to raise revenue or cover administrative costs.

**Additional course costs**

None.

**Examination material or equipment**

One two-sided A4 student-prepared information sheet and a non-programmable calculator.

**Recommended Resources**


**COURSE SCHEDULE**

<table>
<thead>
<tr>
<th>Week/Session</th>
<th>Summary of Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preference and utility</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Classical consumer theory</td>
<td>Assignment 1</td>
</tr>
<tr>
<td>3</td>
<td>Decision under uncertainty</td>
<td></td>
</tr>
<tr>
<td>4-5</td>
<td>General equilibrium</td>
<td>Assignment 2</td>
</tr>
<tr>
<td>6-7</td>
<td>Welfare theorems</td>
<td>Mid-semester exam</td>
</tr>
<tr>
<td>8-9</td>
<td>Strategic-form games</td>
<td>Assignment 3</td>
</tr>
<tr>
<td>10</td>
<td>Bayesian games</td>
<td></td>
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<tr>
<td>11-12</td>
<td>Extensive-form games</td>
<td>Assignment 4</td>
</tr>
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**ASSESSMENT REQUIREMENTS**

The ANU is using Turnitin to enhance student citation and referencing techniques, and to assess assignment submissions as a component of the University’s approach to managing Academic Integrity. For additional information regarding Turnitin please visit the [ANU Online](https://www.anu.edu.au) website.

Students may choose not to submit assessment items through Turnitin. In this instance you will be required to submit, alongside the assessment item itself, copies of all references included in the assessment item.
Assessment Tasks

Participation
Participation is encouraged but will not be assessed.
Assessment Task 1: Assignments 1 to 4

Details of task: Students solve problems using theory covered in the course, and the problems are designed to develop their analytical skills.

Assessment Rubrics

Word limit (where applicable): None
Value: 5% each.
Presentation requirements: None.
Estimated return date: See course schedule.
Hurdle Assessment requirements (where applicable): None.
Individual Assessment in Group Tasks (where applicable): Each student must submit his/her own write-up.

Examinations

Details of task: Students solve problems within the given time frame. A lecturer-prepared formula sheet will be provided in the exam (in addition to the student's formula sheet), which contains both

- formulas that may be useful in answering the exam questions; and
- formulas that are not useful or not even intended for the students to understand.

Students are expected to tell between the two types of formulas if they intend to use the lecturer-prepared formula sheet. Some exam questions test students' ability to apply the theory in a creative way.
The mid-semester exam is optional and redeemable. If a student does not take the mid-semester exam or his/her final exam score is higher than the mid-semester score, the final exam score will replace the mid-semester score (if any) in computing his/her final raw mark.

Assignment submission

Online Submission: Assignments are submitted using Turnitin in the course Wattle site. You will be required to electronically sign a declaration as part of the submission of your assignment. Please keep a copy of the assignment for your records.

Hard Copy Submission: Assignments must include the cover sheet available here. Please keep a copy of tasks completed for your records.
Extensions and penalties

Extensions and late submission of assessment pieces are covered by the Student Assessment (Coursework) Policy and Procedure.

The Course Convener may grant extensions for assessment pieces that are not examinations or take-home examinations. If you need an extension, you must request it in writing on or before the due date. If you have documented and appropriate medical evidence that demonstrates you were not able to request an extension on or before the due date, you may be able to request it after the due date.

If you accept late submission of assessment, please use the following text:

Late submission of assessment tasks without an extension are penalised at the rate of 5% of the possible marks available per working day or part thereof. Late submission of assessment tasks is not accepted after 10 working days after the due date, or on or after the date specified in the course outline for the return of the assessment item.

Late submission is not accepted for take-home examinations.

Returning assignments

Hard-copy homework will be returned during consultation hours.

Resubmission of assignments

Resubmission is not permitted after the due date of the assignments

Referencing requirements

Cite any sources you use beyond the recommended textbook.

Scaling

Your final mark for the course will be based on the raw marks allocated for each of your assessment items. However, your final mark may not be the same number as produced by that formula, as marks may be scaled. Any scaling applied will preserve the rank order of raw marks (i.e. if your raw mark exceeds that of another student, then your scaled mark will exceed the scaled mark of that student), and may be either up or down.

Privacy Notice

The ANU has made a number of third party, online, databases available for students to use. Use of each online database is conditional on student end users first agreeing to the database licensors terms of service and/or privacy policy. Students should read these carefully.
In some cases student end users will be required to register an account with the database licensor and submit personal information, including their: first name; last name; ANU email address; and other information.

In cases where student end users are asked to submit content to a database, such as an assignment or short answers, the database licensor may only use the students content in accordance with the terms of service including any (copyright) licence the student grants to the database licensor.

Any personal information or content a student submits may be stored by the licensor, potentially offshore, and will be used to process the database service in accordance with the licensors terms of service and/or privacy policy.

If any student chooses not to agree to the database licensors terms of service or privacy policy, the student will not be able to access and use the database. In these circumstances students should contact their lecturer to enquire about alternative arrangements that are available.

**Tutorial Seminar Registration**

Tutorial signup for this course will be done via the Wattle website. Detailed information about signup times will be provided on Wattle or during your first lecture. When tutorials are available for enrolment, follow these steps:

1. Log on to Wattle, and go to the course site
2. Click on the link ‘Tutorial enrolment’
3. On the right of the screen, click on the tab ‘Become Member of . . . ’ for the tutorial class you wish to enter
4. Confirm your choice

If you need to change your enrolment, you will be able to do so by clicking on the tab ‘Leave group. . . ’ and then re-enrol in another group. You will not be able to enrol in groups that have reached their maximum number. Please note that enrolment in ISIS must be finalised for you to have access to Wattle.

**SUPPORT FOR STUDENTS**

The University offers a number of support services for students. Information on these is available online from [http://students.anu.edu.au/studentlife/](http://students.anu.edu.au/studentlife/)