



ECON991

Economics for Actuaries

S1 Day 2016

Dept of Economics

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General Information

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| E4A 421 |
| Credit points 4 |
| Prerequisites Admission to MActPrac |
| Corequisites |
| Co-badged status |
| Unit description The aim of this unit is to provide a postgraduate-level foundation in modern economic analysis, with applications to decision making in business, for postgraduate actuarial students. The unit provides students with the knowledge and tools to use microeconomic and macroeconomic theory and concepts in analysing business decision making and an understanding of the broader social, economic and regulatory environment in which businesses operate. |

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Explain, compare, contrast and analyse these concepts, models and theories logically and coherently
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and theories to real world economic problems or practical situations
- Identify and then use relevant economic diagrams to assist with explanations and applications
- Understand the behaviour of individuals and firms and the operation of markets in the economy
- Understand the role of the government and the central bank in the economy and the instruments available to them to manage the economy

Assessment Tasks

| Name | Weighting | Due |
|-----------------------------------|-----------|-------------------------------|
| Online Quiz | 10% | Week 4 |
| Assignment 1 | 15% | Week 9 |
| Assignment 2 | 15% | Week 11 |
| Final Examination | 60% | University Examination Period |

Online Quiz

Due: **Week 4**

Weighting: **10%**

The purpose of this quiz is to examine your understanding of the concepts and models covered in the first 3 weeks. This task's aim is also to provide you with some early feedback about your progress in the course. The quiz will consist of a series of multiple choice style questions.

The quiz will be completed online during week 4 and more details will be made available by the end of week 2.

Penalties

If you do not complete the quiz you will be awarded a mark of zero (0). The only exception is due to illness and/or unavoidable disruption. In these circumstances you may wish to consult the University's Disruption to Studies policy.

http://www.mq.edu.au/policy/docs/disruption_studies/policy.html

If a student satisfies the Disruption to Studies policy they will be required to complete a supplementary assessment task and this could take the form of an oral task.

On successful completion you will be able to:

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and theories to real world economic problems or practical situations

Assignment 1

Due: **Week 9**

Weighting: **15%**

The purpose of the assignment is to examine your ability to understand and apply (i) microeconomic concepts learned in the first seven weeks of the course and (ii) macroeconomic

concepts that will require you to do some independent reading. The assignment will consist of a number of calculation based problem solving questions. The assignment will be available to students in week 4 on the unit web page.

Submission

The assignment is due in week 9 of semester – May 9 to 13 – and must be handed in during your class that week. **Note: You must hand in your assignment in the class in which you are enrolled.**

We will return your marked assignment with comments in Week 13.

Extension and Penalties

No late assignments will be accepted. If an assignment is submitted late it will receive a mark of zero (0).

The only exception is if you cannot submit your assignment on time because of documented illness or unavoidable disruption, in such circumstances, please consult the University's Disruption to Studies policy.

http://www.mq.edu.au/policy/docs/disruption_studies/policy.html

If a student satisfies the Disruption to Studies policy they will be required to complete a supplementary assessment task and this could take the form of an oral task.

On successful completion you will be able to:

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and theories to real world economic problems or practical situations
- Identify and then use relevant economic diagrams to assist with explanations and applications
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Assignment 2

Due: **Week 11**

Weighting: **15%**

The purpose of the assignment is to examine your ability to understand and apply concepts learned through independent study on a variety of topics - imperfect competition, international trade, international macroeconomics and globalization. The assignment will consist of a number of calculation based problem solving questions. The assignment will be available to students in week 4 on the unit web page.

Submission

The assignment is due by 4.00pm on the 27th of May and must be handed in at the front desk on Level 2 of E4A.

Marked assignments can be collected from front desk on Level 2 of E4A from the 10th of June.

Extension and Penalties

No late assignments will be accepted. If an assignment is submitted late it will receive a mark of zero(0).

The only exception is if you cannot submit your assignment on time because of documented illness or unavoidable disruption, in such circumstances please consult the University's Disruption to Studies policy.

http://www.mq.edu.au/policy/docs/disruption_studies/policy.html

If a student satisfies the Disruption to Studies policy they will be required to complete a supplementary assessment task and this could take the form of an oral task.

On successful completion you will be able to:

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Explain, compare, contrast and analyse these concepts, models and theories logically and coherently
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and theories to real world economic problems or practical situations
- Identify and then use relevant economic diagrams to assist with explanations and applications
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- Understand the role of the government and the central bank in the economy and the instruments available to them to manage the economy

Final Examination

Due: **University Examination Period**

Weighting: **60%**

A 2 hour final examination for this unit will be held during the Macquarie University final examination period.

All topics studied during the semester, except those covered by the second assignment, are examinable. The exam will consist of multiple choice questions and questions requiring written

answers which may also involve making calculations - more detail about the structure will be provided towards the end of the session. The final exam will give you an opportunity to demonstrate the depth and breadth of your knowledge of basic economic concepts, the economic way of thinking and in using your knowledge to solve economic problems.

The Macquarie University examination policy details the principles and conduct of examinations at the University. The policy is available at:

<http://www.mq.edu.au/policy/docs/examination/policy.html>

Penalties

Failure to sit the final exam at the designated day and time will result in a mark of zero(0) being awarded. The only exception is if a student has experienced illness and/or unavoidable disruption. In such circumstances students should consult the University's Disruption to Studies policy using the following link:

http://www.mq.edu.au/policy/docs/disruption_studies/policy.html

In the event of meeting the criteria outlined in the policy students will be awarded a supplementary exam to undertake.

On successful completion you will be able to:

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Explain, compare, contrast and analyse these concepts, models and theories logically and coherently
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and theories to real world economic problems or practical situations
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Delivery and Resources

Classes

- There is one 3 hour lecture per week that you must attend.
- You are expected to attend the lecture group you are formally enrolled in. Changes are not permitted. If you have any questions or issues regarding your timetable please see the staff at the Business and Economics Graduate Centre on Level 2, E4A for

assistance.

- The timetable for classes can be found on the University web site at:
<http://www.timetables.mq.edu.au/>
- There will be three workshops held during the semester. These workshops are designed to review and reinforce the material covered in lectures and in the required reading.
- These workshops will be held during normal lecture times during weeks 5, 7 and 13.
- Details concerning the questions to be covered during the workshops can be downloaded from the unit web page.

Required and Recommended Texts and/or Materials

Textbook

- The textbooks for this course are:

Frost, L., Taylor, J., Weerapana, A. and Schuwalow, P. (2013) *Microeconomics: Principles and Practice*, Cengage Learning.

Littleboy, B., Taylor, J. and Weerapana, A (2013) *Macroeconomics: Principles and Practice*, Cengage Learning.

The textbooks can be purchased from the Co-op bookstore located on campus.

- The textbooks are available to borrow from the Macquarie University library.
- The publisher provides access to the online learning resource Aplia through the iLearn website for this course.

Technology Used and Required

- Students will require a non-programmable calculator for completion of all assessment tasks. A calculator is non-programmable if it does not have any memory, or if it is capable of storing only numerical data within its memory.
- Students will also require access to a computer to view the unit website, view the publisher's website for the set text, and for email communication with staff. The University provides students access to computers on campus – for more information please enquire at Business and Economics Student Services centre (BESS).

Unit Web Page

- Course material is available on the learning management system (iLearn)
- The web page for this unit can be found at: <https://ilearn.mq.edu.au/login/MQ/>

Teaching and Learning Activities

- This unit will be taught using a combination of both lectures and workshops.
- It is expected that students will:
- Attend all lectures and workshops
- Read the set chapters from their textbook and any supplementary readings – preferably in advance of lecture attendance
- Prepare for workshops in advance
- A comprehensive calendar of topics to be covered on a week by week basis can be found in the Unit Schedule.

Unit Schedule

| Microeconomics | Week | Topic | Required Reading | Reminders |
|----------------|----------------------------|------------------------------------------------------------------------------------|-----------------------------------------------|-------------|
| | 1 <i>Feb 29 – Mar 4</i> | Introduction, the Economic Way of Thinking and the Production Possibility Frontier | Frost et al., Chs 1 (including appendix), & 2 | |
| | 2 <i>Mar 7 – 11</i> | The Supply and Demand Model | Frost et al., Ch 3 | |
| | 3 <i>Mar 14 – 18</i> | The Demand Curve and The Supply Curve | Frost et al., Chs 4 & 5 | |
| | 4 <i>Mar 21 – 24</i> | Elasticity and the Costs of Production (Part 1) | Frost et al., Chs 6 & 7 | Online Quiz |
| | 5 <i>Mar 29 – Apr 1</i> | Costs of Production (Part 2) | Frost et al., Ch 7 | Workshop 1 |
| | 6 <i>Apr 4 – 8</i> | A Competitive Market and Monopoly (Part 1) | Frost et al., Chs 8 & 9 | |
| | <i>Apr 11 – 25</i> | Mid Semester Break | | |
| | 7 <i>Apr 26 – 29</i> | Monopoly (Part 2.) | Frost et al., Ch 9 | Workshop 2 |

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|----------------|----------------------|----------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------|
| Macroeconomics | 8 May 2 – 6 | Introduction to Macroeconomics: GDP, Business Cycles and Inflation | Littleboy et al., Chs 1,2,3 & 4 | |
| | 9 May 9 – 13 | Introduction to Macroeconomics: Labour and Money and Banking | Littleboy et al., Chs 5 & 6 | Assignment 1 Due |
| | 10 May 16 – 20 | Aggregate Expenditure Line Model and the Multiplier | Littleboy et al., Chs 7 & 8 | |
| | 11 May 23 – 27 | Monetary Policy and the Economic Fluctuations Model (Part 1) | Littleboy et al., Chs 9 & 10 | Assignment 2 Due |
| | 12 May 30 – Jun 3 | Monetary Policy and the Economic Fluctuations Model (Part 2) Fiscal Policy (Part 1) | Littleboy et al., Chs 11 & 12 | |
| | 13 Jun 6 – 10 | Fiscal Policy (Part 2) | Littleboy et al., Ch 13 | Workshop 3 Assignment 1 & 2 Returned |
| | Jun 14 – Jul 1 | Final Exam Period | | |

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy http://mq.edu.au/policy/docs/academic_honesty/policy.html

New Assessment Policy in effect from Session 2 2016 http://mq.edu.au/policy/docs/assessment/policy_2016.html. For more information visit http://students.mq.edu.au/events/2016/07/19/new_assessment_policy_in_place_from_session_2/

Assessment Policy prior to Session 2 2016 <http://mq.edu.au/policy/docs/assessment/policy.html>

Grading Policy prior to Session 2 2016 <http://mq.edu.au/policy/docs/grading/policy.html>

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public http://www.mq.edu.au/policy/docs/complaint_management/procedure.html

Disruption to Studies Policy http://www.mq.edu.au/policy/docs/disruption_studies/policy.html *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/support/student_conduct/

Results

Results shown in *iLearn*, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au.

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of

knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Explain, compare, contrast and analyse these concepts, models and theories logically and coherently
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and theories to real world economic problems or practical situations
- Identify and then use relevant economic diagrams to assist with explanations and applications
- Understand the behaviour of individuals and firms and the operation of markets in the economy
- Understand the role of the government and the central bank in the economy and the instruments available to them to manage the economy

Assessment tasks

- Online Quiz
- Assignment 1
- Assignment 2
- Final Examination

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Explain, compare, contrast and analyse these concepts, models and theories logically and coherently
- Apply, analyse, evaluate, and suggest solutions using these concepts, models and

theories to real world economic problems or practical situations

- Identify and then use relevant economic diagrams to assist with explanations and applications
- Understand the behaviour of individuals and firms and the operation of markets in the economy
- Understand the role of the government and the central bank in the economy and the instruments available to them to manage the economy

Assessment tasks

- Online Quiz
- Assignment 1
- Assignment 2
- Final Examination

PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes

- Understand the key economic concepts, models and theories of introductory microeconomics and macroeconomics
- Understand the behaviour of individuals and firms and the operation of markets in the economy

Assessment tasks

- Online Quiz
- Assignment 1
- Assignment 2
- Final Examination

Research and Practice

This unit uses research from external sources (references) to illustrate theories and concepts.

This unit gives you practice in applying theory to economic problems and questions encountered in the real world in your assignments