AFCP6018
Quantitative and Economic Analysis
AFC term 1, Fully online/virtual 2021
Department of Applied Finance

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Notice
As part of Phase 3 of our return to campus plan, most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to timetable viewer. To check detailed information on unit assessments visit your unit’s iLearn space or consult your unit convenor.
General Information

Unit convenor and teaching staff
Geoff Brianton
geoff.brianton@mq.edu.au
Contact via Email

Alan Rai
alan.rai@mq.edu.au
Contact via Email

Credit points
10

Prerequisites
Admission to GradCertFin or GradDipAppFin or MAppFin or MAppFin(Adv)

Corequisites

Co-badged status

Unit description
This unit provides the important building blocks in microeconomic and quantitative analysis required for advanced study in applied finance. Microeconomic analysis develops tools in demand and supply and critically applies these to the consumer and the firm. It concludes with an analysis of market structure. The second part of the unit develops quantitative skills that are used in finance, including descriptive statistics, probability, statistical inference, correlation and regression analysis. Spreadsheets are extensively used in statistical modelling.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://students.mq.edu.au/important-dates

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

ULO1: Apply mathematical skills to finance based problems.
ULO3: Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
ULO2: Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
ULO4: Analyse data using the key concepts, models and theories used in probability and statistics.

ULO5: Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.

General Assessment Information

Information - Extension Requests / Penalties

Online Participation (15%)
No extensions will be granted. Students who have not submitted the task prior to the due date will be awarded a mark of zero for the task, except for cases in which an application for Special Consideration is made and approved.

Further information on submitting an Application for Special Consideration can be found at https://students.mq.edu.au/study/my-study-program/special-consideration.

Assessed Coursework (55%)
No extensions will be granted. Students who have not submitted the task prior to the due date will be awarded a mark of zero for the task, except for cases in which an application for Special Consideration is made and approved.

Further information on submitting an Application for Special Consideration can be found at https://students.mq.edu.au/study/my-study-program/special-consideration.

Final Exam (30%)
Deferral of an examination is not permitted unless an application for Special Consideration is made and approved.

Students who do not attend receive a mark of zero. This penalty does not apply in cases where an application for Special Consideration has been made and approved.

Further information on submitting an Application for Special Consideration can be found at https://students.mq.edu.au/study/my-study-program/special-consideration.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Participation</td>
<td>15%</td>
<td>No</td>
<td>Refer to iLearn</td>
</tr>
<tr>
<td>Assessed Coursework</td>
<td>55%</td>
<td>No</td>
<td>Refer to iLearn</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>No</td>
<td>Exam Week</td>
</tr>
</tbody>
</table>

Online Participation
Assessment Type ¹: Participatory task
Indicative Time on Task 2: 30.00 hours
Due: Refer to iLearn
Weighting: 15%

Participation in online discussion forums. Online discussions and tasks will be conducted during the term. You are required to participate actively in these forums, and your contributions will be assessed.

On successful completion you will be able to:
- Apply mathematical skills to finance based problems.
- Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
- Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
- Analyse data using the key concepts, models and theories used in probability and statistics.
- Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.

Assessed Coursework
Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 40.00 hours
Due: Refer to iLearn
Weighting: 55%

You will be required to participate in a variety of assessment tasks for Economic Analysis and Quantitative Analysis. These will include written activities, online quizzes and project based learning.

On successful completion you will be able to:
- Apply mathematical skills to finance based problems.
- Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
- Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
- Analyse data using the key concepts, models and theories used in probability and statistics.
- Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.
Final Exam

Assessment Type 1: Examination
Indicative Time on Task 2: 12.00 hours
Due: Exam Week
Weighting: 30%

Online Exam via iLearn on all Topics

On successful completion you will be able to:

• Apply mathematical skills to finance based problems.
• Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
• Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
• Analyse data using the key concepts, models and theories used in probability and statistics.
• Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.

1 If you need help with your assignment, please contact:

• the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
• the Learning Skills Unit for academic skills support.

2 Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

REQUIRED AND RECOMMENDED TEXTS AND/OR MATERIALS

Required Text:
The required textbooks for this unit are:


Details on the eBook (a VitalSource eText) can be found at: https://www.vitalsource.com/en-au/p
It is recommended that students purchase the text with the Coursemate option.


**Additional Readings:**

- Additional readings are included iniLearn.
- Students should assume these readings are examinable unless otherwise advised.

**Assumed Knowledge:** Mathematical content

- This unit has a high level of numerical content. Consequently, this unit is mathematical and arithmetical. The applied nature of this unit means that the focus is on application of knowledge rather than complex mathematical derivations. To help prepare students for the numerical content in this unit, students will find a Fundamental Maths Quiz in iLearn. This will allow students to test their existing mathematics knowledge. Details on the quiz can be found in iLearn.

**Assumed Access:** Access to a computer with word processing and spreadsheet capability is assumed, as is general student computer literacy. In particular, students need access to a version of Microsoft Excel which includes regression analysis.

**TECHNOLOGY USED AND REQUIRED**

This is an online unit which will make use of the University's iLearn system.

Unit's iLearn Site:

- Found by logging on to iLearn [ilearn.mq.edu.au](http://ilearn.mq.edu.au), then clicking on **AFCP6018 Quantitative and Economic Analysis**.
- This is where you will find forums, downloadable resources and links to important pages.
- The forum allows you to communicate with other students and lecturer(s) and may provide supplementary material.
- You are requested to post your questions on the forums at least 24 hours prior to the assessment submission date or the examination date. Questions posted after that time may not be answered. **Please ensure that you do not leave your questions to the last few days.**
It is important that you familiarise yourself with the unit’s iLearnsite.
All students should check iLearn regularly and look for updates and distribution of materials related to the unit or assessments and participate in forum discussions.

Unit Schedule

The following schedule is a guide to the timing of each topic. Details of the required readings are provided in iLearn.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Date when you should have started working on this topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Topic 0: Essential pre-work</td>
<td>Monday, 4 January 2021</td>
</tr>
<tr>
<td>1</td>
<td>Key concepts, supply &amp; demand model</td>
<td>Monday, 11 January 2021</td>
</tr>
<tr>
<td>2</td>
<td>Topic 2: Market analysis &amp; elasticity</td>
<td>Monday, 18 January 2021</td>
</tr>
<tr>
<td>3</td>
<td>Topic 3: Cost curves &amp; the competitive market</td>
<td>Monday, 25 January 2021</td>
</tr>
<tr>
<td>4</td>
<td>Topic 4: Market structures</td>
<td>Monday, 1 February 2021</td>
</tr>
<tr>
<td>5</td>
<td>Complete Economic assessment tasks</td>
<td>Monday, 8 February 2021</td>
</tr>
<tr>
<td>5</td>
<td>Topic 5: Descriptive statistics</td>
<td>Monday, 15 February 2021</td>
</tr>
<tr>
<td>6</td>
<td>Topic 6: Probability &amp; random variables</td>
<td>Monday, 22 February 2021</td>
</tr>
<tr>
<td></td>
<td>Topic 7: Statistical estimation &amp; inference</td>
<td>Monday, 1 March 2021</td>
</tr>
<tr>
<td>9</td>
<td>Topic 8: Correlation, regression &amp; indices</td>
<td>Monday, 8 March 2021</td>
</tr>
<tr>
<td>11</td>
<td>Complete quantitative assessment tasks</td>
<td>Monday, 15 March 2021</td>
</tr>
<tr>
<td></td>
<td>Exam preparation start</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Online exam period</td>
<td>Saturday, 27 March – Sunday 28 March 2021</td>
</tr>
</tbody>
</table>

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
• Academic Integrity Policy
• Academic Progression Policy
• Assessment Policy
• Fitness to Practice Procedure
• Grade Appeal Policy
• Complaint Management Procedure for Students and Members of the Public
• Special Consideration Policy (Note: The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)

Students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/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/admin/other-resources/student-conduct

**Results**

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) 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 or if you are a Global MBA student contact globalmba.support@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 help you improve your marks and take control of your study.

• Getting help with your assignment
• Workshops
• StudyWise
• Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.
Student Enquiry Service
For all student enquiries, visit Student Connect at ask.mq.edu.au
If you are a Global MBA student contact globalmba.support@mq.edu.au

Equity 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.

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.