



# AFCP6018

## Quantitative and Economic Analysis

Term 3, Fully online/virtual 2021

*Department of Applied Finance*

### Contents

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<a href="#"><u>General Information</u></a>	2
<a href="#"><u>Learning Outcomes</u></a>	2
<a href="#"><u>General Assessment Information</u></a>	3
<a href="#"><u>Assessment Tasks</u></a>	3
<a href="#"><u>Delivery and Resources</u></a>	5
<a href="#"><u>Unit Schedule</u></a>	7
<a href="#"><u>Policies and Procedures</u></a>	7

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#### **Disclaimer**

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

#### **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

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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://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

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

**ULO1:** Apply mathematical skills to finance based problems.

**ULO2:** Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.

**ULO3:** Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.

**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 <http://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 <http://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 <http://students.mq.edu.au/study/my-study-program/special-consideration>.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Online Participation</a>	15%	No	Refer to iLearn
<a href="#">Assessed Coursework</a>	55%	No	Refer to iLearn
<a href="#">Final Exam</a>	30%	No	Exam Week

### Online Participation

Assessment Type <sup>1</sup>: Participatory task

Indicative Time on Task <sup>2</sup>: 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.
- Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
- Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
- 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 <sup>1</sup>: Case study/analysis

Indicative Time on Task <sup>2</sup>: 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.
- Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
- Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
- 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 <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 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.
- Explain and analyse the key concepts, models and theories used in microeconomics as required for applied finance.
- Apply the key concepts, models and theories used in microeconomics to solve a range of finance based problems.
- 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.

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<sup>1</sup> 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 [Writing Centre](#) for academic skills support.

<sup>2</sup> 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:

- *Microeconomics: Principles and Practice*, 2<sup>nd</sup> edition (2017) by Frost, Taylor, Weerapana, Schuwalow, Cengage Learning. This textbook, only available as an e-text, can be found at: <https://www.vitalsource.com/en-au/products/microeconomics-principles-and-practice-lionel-frost-john-taylor-v9780170278973>
- *Basic Business Statistics*, 5th edition (2018) by Berenson, Levine, Szabat, O'Brien,

Watson and Jayne, Pearson Australia (ISBN 9781488617249). Details on the textbook can be found at <https://pearson.com.au/9781488617249>. The textbook is available from the publisher's website as a paperback or as a VitalSource eText. The textbook is also available as a paperback from Booktopia.

### **Additional Readings:**

- Additional readings are included in iLearn.
- 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.**

### **Important Notice:**

- It is important that you familiarise yourself with the unit's iLearn site.
- 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.

Week	Topic	Date when you should have started working on this topic
0	Topic 0: Essential pre-work	Monday, 21 June 2021
1	Key concepts, supply & demand model	Monday, 28 June 2021
2	<b>Topic 2:</b> Market analysis & elasticity	Monday, 5 July 2021
3	<b>Topic 3:</b> Cost curves & the competitive market	Monday, 12 July 2021
4	<b>Topic 4:</b> Market structures	Monday, 19 July 2021
5	<i>Complete Economic assessment tasks</i>	Monday, 26 July 2021
5	<b>Topic 5:</b> Descriptive statistics	Monday, 2 August 2021
6	<b>Topic 6:</b> Probability & random variables	Monday, 9 August 2021
	<b>Topic 7:</b> Statistical estimation & inference	Monday, 16 August 2021
9	<b>Topic 8:</b> Correlation, regression & indices	Monday, 23 August 2021
11	<i>Complete quantitative assessment tasks</i> <i>Exam preparation start</i>	Monday, 30 August 2021
12	<b>Online exam period</b>	Saturday, 11 September – Sunday 12 September 2021

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). 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](#)

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

To find other policies relating to Teaching and Learning, visit [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>) and use the [search tool](#).

## 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](http://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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](http://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.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

## 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](http://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@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/](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.