AFCX6018
Quantitative and Economic Analysis
Term 3, Online-flexible 2024
Department of Applied Finance

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General Information

Unit convenor and teaching staff
Geoff Brianton
g Geoff.brianton@mq.edu.au

Credit points
10

Prerequisites
Admission to GradCertFin (OUA)

Corequisites

Co-badged status
AFCP6018

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: Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.
ULO5: Analyse data using the key concepts, models and theories used in probability and
Statistics.

**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>10%</td>
<td>No</td>
<td>Refer to Unit Schedule</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>No</td>
<td>Refer to Unit Schedule</td>
</tr>
<tr>
<td>Assessed Coursework</td>
<td>60%</td>
<td>No</td>
<td>Refer to Unit Schedule</td>
</tr>
</tbody>
</table>

**Online Participation**

Assessment Type: Participatory task  
Indicative Time on Task: 10 hours  
Due: Refer to Unit Schedule  
Weighting: 10%

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.
- Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.
- Analyse data using the key concepts, models and theories used in probability and statistics.

**Final Exam**

Assessment Type: Examination  
Indicative Time on Task: 22 hours  
Due: Refer to Unit Schedule  
Weighting: 30%
2-hour 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.
- Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.
- Analyse data using the key concepts, models and theories used in probability and statistics.

**Assessed Coursework**

Assessment Type: Case study/analysis
Indicative Time on Task: 40 hours
Due: Refer to Unit Schedule
Weighting: 60%

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.
- Demonstrate proficiency in using spreadsheet based statistical modelling to solve a range of finance based problems.
- Analyse data using the key concepts, models and theories used in probability and statistics.
# Unit Guide AFCX6018 Quantitative and Economic Analysis

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 [Writing Centre](https://unitguides.mq.edu.au/unit_offerings/162526/unit_guide/print) 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

Refer to Unit Schedule

### Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assessment</th>
<th>Weight</th>
<th>Topic Start</th>
<th>Assessment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Essential Pre work</td>
<td>Participation forum (Language and Eco)</td>
<td></td>
<td>Monday 24 June 2024</td>
<td>11:55 PM Monday 08 July 2024</td>
</tr>
<tr>
<td>1</td>
<td>Descriptive statistics</td>
<td>Participation forum (Misuse of Statistics)*</td>
<td></td>
<td>Monday 01 July 2024</td>
<td>11:55 PM Monday 15 July 2024</td>
</tr>
<tr>
<td>2</td>
<td>Statistical Distribution</td>
<td>Quiz</td>
<td>10%</td>
<td>Monday 08 July 2024</td>
<td>11:55 PM Monday 22 July 2024</td>
</tr>
<tr>
<td>3</td>
<td>Inference</td>
<td>Assignment</td>
<td>10%</td>
<td>Monday 15 July 2024</td>
<td>11:55 PM Monday 29 July 2024</td>
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<tr>
<td>4</td>
<td>Regression</td>
<td>Quiz</td>
<td>10%</td>
<td>Monday 22 July 2024</td>
<td>11:55 PM Monday 12 August 2024</td>
</tr>
<tr>
<td>5</td>
<td>Machine Learning /AI*</td>
<td>Participation forum (Statistics in Action)*</td>
<td></td>
<td>Monday 29 July 2024</td>
<td>11:55 PM Monday 05 August 2024</td>
</tr>
<tr>
<td>6</td>
<td>Key Concepts</td>
<td>Participation forum (Economics in Action)*</td>
<td></td>
<td>Monday 05 August 2024</td>
<td>11:55 PM Monday 12 August 2024</td>
</tr>
<tr>
<td>7</td>
<td>Market analysis &amp; Elasticity</td>
<td>Final Assignment released</td>
<td></td>
<td>Monday 12 August 2024</td>
<td>11:55 PM Monday 19 August 2024</td>
</tr>
<tr>
<td>8</td>
<td>Cost Curves &amp; Competitive Market</td>
<td>Participation forum (Perfect Competition)*</td>
<td></td>
<td>Monday 19 August 2024</td>
<td>11:55 PM Monday 26 August 2024</td>
</tr>
<tr>
<td>9</td>
<td>Market Structures</td>
<td>Final Assignment (Eco &amp; Quant)</td>
<td>30%</td>
<td>Monday 26 August 2024</td>
<td>11:55 PM Monday 02 September 2024</td>
</tr>
<tr>
<td>10</td>
<td>Swot Vac</td>
<td>(none)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>12</td>
<td>Final Assessment</td>
<td>30%</td>
<td></td>
<td>01:00 PM Saturday 07 September 2024</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Participation</td>
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<td></td>
<td></td>
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</tbody>
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[https://unitguides.mq.edu.au/unit_offerings/162526/unit_guide/print](https://unitguides.mq.edu.au/unit_offerings/162526/unit_guide/print) 5
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (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
- Assessment Procedure
- Complaints Resolution 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). 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) 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 or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe academic integrity – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free online writing and maths support, academic skills development and wellbeing consultations.

Student Support

Macquarie University provides a range of support services for students. For details, visit http://stu
The Writing Centre

The Writing Centre provides resources to develop your English language proficiency, academic writing, and communication skills.

- Workshops
- Chat with a WriteWISE peer writing leader
- Access StudyWISE
- Upload an assignment to Studiosity
- Complete the 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

Macquarie University offers a range of Student Support Services including:

- IT Support
- Accessibility and disability support with study
- Mental health support
- Safety support to respond to bullying, harassment, sexual harassment and sexual assault
- Social support including information about finances, tenancy and legal issues
- Student Advocacy provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via AskMQ, or contact Service Connect.

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.

Unit information based on version 2024.03 of the Handbook