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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.
General Information

Unit convenor and teaching staff
Unit coordinator
Shuping Shi
shuping.shi@mq.edu.au

Credit points
10

Prerequisites
ECON2041 or STAT2372 or AFIN2070

Corequisites

Co-badged status

Unit description
This unit examines econometric techniques that are used in portfolio management, risk management and securities analysis. It provides students with the tools necessary for financial applications in these and other areas. Statistical techniques are developed in the context of particular financial applications. Recent empirical evidence is also discussed.

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 econometric methods to modelling, analysing and forecasting financial data.
ULO2: Demonstrate and explain different estimation methodologies.
ULO3: Critically evaluate empirical econometric work.
ULO4: Present results based on financial econometric analysis, to a non-technical audience, in a clear and understandable manner.

General Assessment Information

Late Assessment Submission Penalty (written assessments)

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the
total possible mark) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of ‘0’ will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern. For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.

**Assessment Tasks**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final examination</td>
<td>40%</td>
<td>No</td>
<td>University Examination Period</td>
</tr>
<tr>
<td>Class test</td>
<td>30%</td>
<td>No</td>
<td>Week 7 (during lecture time)</td>
</tr>
<tr>
<td>Assignment</td>
<td>30%</td>
<td>No</td>
<td>Week 10, Wednesday 11:55pm (Sydney time)</td>
</tr>
</tbody>
</table>

**Final examination**

Assessment Type 1: Examination
Indicative Time on Task 2: 30 hours
Due: University Examination Period
Weighting: 40%

A two-hour examination will be held during the University Examination Period, and will consist of multiple-choice and short-answer questions. Computer outputs and statistical tables will be provided.

On successful completion you will be able to:
- Demonstrate and explain different estimation methodologies.
- Critically evaluate empirical econometric work.

**Class test**

Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 15 hours
Due: Week 7 (during lecture time)
Weighting: 30%

The class test will be held during the week 7 lecture. The test will consist of multiple-choice questions, and will cover all material up to and including Week 5.
On successful completion you will be able to:
  • Apply econometric methods to modelling, analysing and forecasting financial data.
  • Demonstrate and explain different estimation methodologies.

Assignment
Assessment Type 1: Quantitative analysis task
Indicative Time on Task 2: 25 hours
Due: Week 10, Wednesday 11:55pm (Sydney time)
Weighting: 30%

Written questions exploring various aspects of Financial Econometrics.

On successful completion you will be able to:
  • Critically evaluate empirical econometric work.
  • Present results based on financial econometric analysis, to a non-technical audience, in a clear and understandable manner.

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 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
Delivery
The intended delivery mode is as per the timetable: Macquarie University Timetables. If this link does not work, enter: timetables.mq.edu.au/2024/ into your browser.

Resources
The prescribed textbook for the unit is:

https://unitguides.mq.edu.au/unit_offerings/166681/unit_guide/print
Unit Schedule

The list below is a proposed study plan, but this may be modified as we progress through the semester to allow us to take more or less time with different sections of the course as required.

<table>
<thead>
<tr>
<th>Week No.</th>
<th>Lecture Topic</th>
<th>Tutorials</th>
</tr>
</thead>
</table>

https://unitguides.mq.edu.au/unit_offerings/166681/unit_guide/print
<table>
<thead>
<tr>
<th>Topic</th>
<th>Textbook</th>
<th>Tutorial</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Characteristics of Financial Data; Revision of Basic Mathematical</td>
<td>Chapter 1 and Chapter 2, all sections; 4th or 3rd Edition. Lecture Notes.</td>
<td>Week 2</td>
</tr>
<tr>
<td>2 Correlation and Basic Regression Methods</td>
<td>Chapter 3, all sections, excluding the appendix; 4th or 3rd Edition. Lecture Notes.</td>
<td>Week 2</td>
</tr>
<tr>
<td>3 Multiple Linear Regression Model</td>
<td>4th Edition Chapter 4, Sections 4.1 to 4.7 inclusive, Section 4.9. Lecture Notes; or 3rd Edition Chapter 4, Sections 4.1 to 4.8 inclusive, Section 4.10. Lecture Notes.</td>
<td>Week 3</td>
</tr>
<tr>
<td>4 Regression Model Diagnostics</td>
<td>Chapter 5, all sections. Chapter 10, Sections 10.1 to 10.3 inclusive; 4th or 3rd Edition. Lecture Notes.</td>
<td>Week 4</td>
</tr>
<tr>
<td>5 Time Series Models</td>
<td>Chapter 6, Sections 6.1 to 6.5; 4th or 3rd Edition. Lecture Notes.</td>
<td>Week 5</td>
</tr>
<tr>
<td>6 Identification of Time Series Models</td>
<td>Chapter 6, Sections 6.1 to 6.5; 4th or 3rd Edition. Lecture Notes.</td>
<td>Week 6</td>
</tr>
<tr>
<td>7 Class Test</td>
<td></td>
<td>Week 7</td>
</tr>
<tr>
<td>10 Modeling Volatility (Extensions of GARCH Models) and Forecasting Volatility</td>
<td>4th Edition, Chapter 9, Sections 9.10 to 9.18 inclusive, Lecture Notes; or 3rd Edition, Chapter 9, Sections 9.10 to 9.19 inclusive, Lecture Notes.</td>
<td>Week 10</td>
</tr>
</tbody>
</table>

Assignment due Wednesday @ 11:55pm (Sydney time).
### 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](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](https://ask.mq.edu.au) or if you are a Global MBA
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://students.mq.edu.au/support/

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 contact globalmba.support@mq.edu.au
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