BUSA6004
Introduction to Inference, Modelling and Forecasting
Session 1, Online-scheduled-weekday 2023

Department of Actuarial Studies and Business Analytics

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General Information

Unit convenor and teaching staff
Unit Covenor
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Credit points
10

Prerequisites
Admission to MMgmt or MBusAnalytics

Corequisites

Co-badged status

Unit description
This unit provides the quantitative/statistical research tools, data analysis and computer modelling necessary to assist managers with strategic planning, tactical decision-making, and resolving business problems. Students will develop research skills to solve problems.

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: Identify and describe models of managing data.
ULO2: Use quantitative research tools to assess the implications of strategic decisions from a whole of entity perspective and across a range of stakeholders.
ULO3: Apply a range of research tools and models of business performance and productivity to measure and track sustainable value creation across organisational processes and projects.

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>Online Quizzes</td>
<td>20%</td>
<td>No</td>
<td>Weeks 1-4</td>
</tr>
<tr>
<td>Assignment</td>
<td>20%</td>
<td>No</td>
<td>Week 10</td>
</tr>
<tr>
<td>Final Exam</td>
<td>60%</td>
<td>No</td>
<td>Formal Examination period</td>
</tr>
</tbody>
</table>

**Online Quizzes**

Assessment Type 1: Quiz/Test  
Indicative Time on Task 2: 15 hours  
Due: Weeks 1-4  
Weighting: 20%

Online quizzes will be held during the session.

On successful completion you will be able to:

- Identify and describe models of managing data.
- Use quantitative research tools to assess the implications of strategic decisions from a whole of entity perspective and across a range of stakeholders.
- Apply a range of research tools and models of business performance and productivity to measure and track sustainable value creation across organisational processes and projects.

**Assignment**

Assessment Type 1: Report  
Indicative Time on Task 2: 15 hours  
Due: Week 10  
Weighting: 20%
Students are required to conduct quantitative and qualitative analysis and write a report of 1,500 - 2,000 words.

On successful completion you will be able to:

- Identify and describe models of managing data.
- Use quantitative research tools to assess the implications of strategic decisions from a whole of entity perspective and across a range of stakeholders.
- Apply a range of research tools and models of business performance and productivity to measure and track sustainable value creation across organisational processes and projects.

Final Exam

Assessment Type 1: Examination
Indicative Time on Task 2: 30 hours
Due: Formal Examination period
Weighting: 60%

The final examination is approximately 2 hours and to be held during the University exam time.

On successful completion you will be able to:

- Identify and describe models of managing data.
- Use quantitative research tools to assess the implications of strategic decisions from a whole of entity perspective and across a range of stakeholders.
- Apply a range of research tools and models of business performance and productivity to measure and track sustainable value creation across organisational processes and projects.

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
John Croucher, Quantitative analysis for management, 6th Edition. Details on how to purchase with a discount code are available in iLearn.

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://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 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.