BUSA7030
Management of Data, Analytics and Change
Session 1, In person-scheduled-weekday, North Ryde 2023
Department of Actuarial Studies and Business Analytics

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General Information

Unit convenor and teaching staff
Ali Eshraghi
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Credit points
10

Prerequisites
Admission to MRes

Co-badged status
BUSA8030

Unit description
This unit makes decision making, people management and soft skills in analytics a priority. It will help students develop an understanding of how data analytics can be used to influence decision making, to manage business processes, projects and people, and to drive change. Students will also learn about enterprise information systems and contemporary digital technologies that are essential for managing data and driving analytics in organisations. The unit will cover topics such as business-analytics alignment, contemporary digital technologies, business process management, change management, and accountability and ethics in business analytics. The unit also will include how to examine the value propositions of data analytics projects and how to engage key stakeholders to achieve short-term and long-term organisational goals.

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: Assess human, ethical, organisational and technical issues associated with data and business analytics.

ULO2: Recognise and apply different perspectives to help organisations develop evidence-based and data driven decision making practices.
ULO3: Design and conduct analysis to prepare organisations and employees for change.

ULO4: Examine and (re)design business processes for successful use of business analytics initiatives and projects in organisations.

ULO5: Examine and analyse fundamental digital technological needed for effective implementation of analytics projects.

ULO6: Examine and research implications of management of data, analytics and change for practice and society.

**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>Participation &amp; Engagement</td>
<td>10%</td>
<td>No</td>
<td>Weekly</td>
</tr>
<tr>
<td>Online Quiz</td>
<td>30%</td>
<td>No</td>
<td>Week 7 and Week 11</td>
</tr>
<tr>
<td>Case Study</td>
<td>30%</td>
<td>No</td>
<td>Week 8</td>
</tr>
<tr>
<td>Data, Analytics and Change Management Plan</td>
<td>30%</td>
<td>No</td>
<td>Week 13</td>
</tr>
</tbody>
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**Participation & Engagement**

Assessment Type: Participatory task
Indicative Time on Task: 26 hours
Due: Weekly
Weighting: 10%

Weekly engagement in seminar and/or discussion forum participation.
On successful completion you will be able to:

- Assess human, ethical, organisational and technical issues associated with data and business analytics.
- Recognise and apply different perspectives to help organisations develop evidence-based and data driven decision making practices.

**Online Quiz**

Assessment Type: Quiz/Test
Indicative Time on Task: 25 hours
Due: **Week 7 and Week 11**
Weighting: 30%

Two open book online tests will be held.

On successful completion you will be able to:

- Assess human, ethical, organisational and technical issues associated with data and business analytics.
- Recognise and apply different perspectives to help organisations develop evidence-based and data driven decision making practices.
- Design and conduct analysis to prepare organisations and employees for change.
- Examine and (re)design business processes for successful use of business analytics initiatives and projects in organisations.
- Examine and analyse fundamental digital technological needed for effective implementation of analytics projects.

**Case Study**

Assessment Type: Case study/analysis
Indicative Time on Task: 30 hours
Due: **Week 8**
Weighting: 30%

Students will produce a 2,500 word research paper, critically analysing academic and professional outlets as well as given scenario(s) and answering specific question(s) posed
On successful completion you will be able to:

- Recognise and apply different perspectives to help organisations develop evidence-based and data driven decision making practices.
- Examine and analyse fundamental digital technological needed for effective implementation of analytics projects.
- Examine and research implications of management of data, analytics and change for practice and society.

**Data, Analytics and Change Management Plan**

Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 30 hours
Due: **Week 13**
Weighting: **30%**

This group assignment uses a design thinking approach, and will require students to understand business goals, design proper business processes, determine required enterprise systems to support business processes, prepare the organisation for change, and propose analytics initiatives and systems that support business goals.

Students will be required to: 1) Submit a group report (2,500 words, worth 15%); and 2) Present their recommendation (worth 15%).

On successful completion you will be able to:

- Assess human, ethical, organisational and technical issues associated with data and business analytics.
- Recognise and apply different perspectives to help organisations develop evidence-based and data driven decision making practices.
- Design and conduct analysis to prepare organisations and employees for change.
- Examine and (re)design business processes for successful use of business analytics initiatives and projects in organisations.

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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/156113/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

Deliver{}y and Resources

Classes

The unit involves lectures as well as activities. The unit comprises 13 x 3-hour seminars in weeks 1 to 13. Each weekly seminar includes lectures coupled with Q&A sessions and activities. The lecture part is shared with on-campus students, however, activities and questions are offered separately for each mode of delivery.

Group Work

Group work is an inherent requirement for completing this unit satisfactorily.

Required unit materials and/or recommended readings

Textbook


Please refer to Leganto for week-by-week specific readings.

Recommended Readings

We will have some recommended readings included in the iLearn website for this unit so that we can better understand the context in which we are applying our analytical knowledge.

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, (e.g. 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:
Unit guide BUSA7030 Management of Data, Analytics and Change

- **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/](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](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/). The policy applies to all who connect to the MQ network including students.

**Changes since First Published**

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<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>27/02/2023</td>
<td>Co-badged added</td>
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