



# BUSA6430

## Business Applications of Artificial Intelligence

Session 1, In person-scheduled-weekday, North Ryde 2024

*Department of Actuarial Studies and Business Analytics*

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## General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

COMP6200

Corequisites

Co-badged status

Unit description

This unit looks at practical applications of AI systems in a business context, including how AI systems can be deployed, integrated with other business systems, and maintained in the longer term. Some areas that may be covered include the use of recommender systems, text mining, decision support systems and automated assessment of candidates. The unit includes a discussion of the ethical and legal questions raised by the deployment of these systems in a business and of the long-term sustainability of such systems.

## 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:** Evaluate the capabilities of modern AI systems against the needs of business

**ULO2:** Assess the sustainability of AI solutions in an industry context

**ULO3:** Describe the issues that arise in deploying AI systems as part of a larger information systems offering

**ULO4:** Evaluate stakeholder focused AI algorithms and systems

**ULO5:** Communicate effectively about artificial intelligence topics to experts and non-technical audiences

**ULO6:** Successfully work in teams to achieve group and organizational objectives

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Team Project</a>	40%	No	Week 13
<a href="#">Weekly Tutorial Participation</a>	10%	No	Weeks 2-13
<a href="#">In-term quizzes</a>	20%	No	Weeks 5, 9 and 12
<a href="#">AI Industry Case Study</a>	30%	No	Week 7

### Team Project

Assessment Type <sup>1</sup>: Project

Indicative Time on Task <sup>2</sup>: 40 hours

Due: **Week 13**

Weighting: **40%**

This assignment consists of two components: Group project (30 marks) and individual reflections on the project (10 marks).

Students will be required to complete a group project related to business applications of AI in an organisational setting, taking a business perspective. Additionally, each team member will be required to complete an individual reflection on the project.

On successful completion you will be able to:

- Evaluate the capabilities of modern AI systems against the needs of business
- Assess the sustainability of AI solutions in an industry context
- Describe the issues that arise in deploying AI systems as part of a larger information systems offering
- Evaluate stakeholder focused AI algorithms and systems
- Communicate effectively about artificial intelligence topics to experts and non-technical audiences
- Successfully work in teams to achieve group and organizational objectives

### Weekly Tutorial Participation

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

Indicative Time on Task <sup>2</sup>: 0 hours

Due: **Weeks 2-13**

Weighting: **10%**

Students will be required to actively contribute to weekly tutorials in different ways that encourage and value different learning styles and needs. Attendance does not count as contribution.

On successful completion you will be able to:

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- Communicate effectively about artificial intelligence topics to experts and non-technical audiences

## In-term quizzes

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 11 hours

Due: **Weeks 5, 9 and 12**

Weighting: **20%**

Students will be required to complete two or more short quizzes designed to test the AI fundamentals covered in weekly classes.

On successful completion you will be able to:

- Evaluate the capabilities of modern AI systems against the needs of business
- Assess the sustainability of AI solutions in an industry context
- Describe the issues that arise in deploying AI systems as part of a larger information systems offering

## AI Industry Case Study

Assessment Type <sup>1</sup>: Case study/analysis

Indicative Time on Task <sup>2</sup>: 34 hours

Due: **Week 7**

Weighting: **30%**

Students will be required to analyse one or more AI case studies using the concepts and frameworks covered in class.

On successful completion you will be able to:

- Evaluate the capabilities of modern AI systems against the needs of business
- Assess the sustainability of AI solutions in an industry context
- Describe the issues that arise in deploying AI systems as part of a larger information systems offering
- Evaluate stakeholder focused AI algorithms and systems
- Communicate effectively about artificial intelligence topics to experts and non-technical audiences

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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

The unit is comprised of 13 x weekly classes (2h-hour lecture + 1h-tutorial), held on-campus in weeks 1 to 13. The unit is not designed for remote learning. Weekly in-person attendance is expected in both lectures and tutorials.

## 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](#)
- [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) (<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)

## 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/](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.

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Unit information based on version 2024.04 of the [Handbook](#)