



COMP8750

Information Systems Design and Management

Session 2, In person-scheduled-weekday, North Ryde 2026

School of Computing

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General Information

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Credit points

10

Prerequisites

COMP6750 or COMP6180

Corequisites

Co-badged status

Unit description

This unit focuses on enterprise management information systems and the technologies used in their design (including modelling), implementation and maintenance. The alignment of information systems management with business strategy, including socio-technical aspects of systems development are explored. Examples of systems to be managed include enterprise resource planning (ERP), customer relationship management (CRM), Business Intelligence (BI) systems and Groupware. The nexus between social media (SM), cloud computing, mobile devices and big data will be considered.

Learning in this unit enhances student understanding of global challenges identified by the United Nations Sustainable Development Goals ([UNSDGs](#)) Quality Education; Industry, Innovation and Infrastructure

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: Competently use information modelling techniques to design business relevant information systems for organisations, focusing on the design of static systems such as databases, along with dynamic systems designed to perform real-time updates.

ULO2: Analyse the functionality and business context for enterprise system concepts including ERP, BI, CRM, Enterprise 2.0 and Industry 4.0, and recommend appropriate investments based on the specific business context.

ULO3: Use strategic planning with a view to recommending to management the impact of emerging IT trends such as mobile, cloud, social and big data, to generate opportunities for business growth.

ULO4: Practice professional etiquette and maturity as individuals and whilst working in a team to deliver IT solutions to the wider enterprise.

ULO5: Demonstrate proficiency in leadership, communication, critical analysis, problem-solving, and creative thinking.

General Assessment Information

Release Dates:

- ERP Modeling and Analysis - to be released no later than week 2
- Portfolio - to be released no later than week 4
- BIS Project - to be released no later than week 7

Requirements to Pass this Unit:

To pass the unit you need to obtain a grade of 50% or above overall. There are no hurdle assessments.

Late Submission Policy

- **5% penalty per day:** If you submit your assessment late, **5% of the total possible marks** will be deducted for each day (including weekends), up to 7 days.
 - *Example 1 (out of 100):* If you score 85/100 but submit 20 hours late, you will lose 5 marks and receive **80/100**.
 - *Example 2 (out of 30):* If you score 27/30 but submit 1 day late, you will lose 1.5 marks and receive **25.5/30**.
- **After 7 days:** Submissions more than 7 days late will receive a **mark of 0**.

- **Extensions:**

- **Automatic short extension:** Some assessments are eligible for automatic short extension. You can only apply for an automatic short extension before the due date.
- **Special Consideration:** If you need more time due to serious issues and for any assessments that are not eligible for Short Extension, you must apply for Special Consideration.

Need help? Review the Special Consideration page [HERE](#)

Assessments where Late Submissions will be accepted:

- ERP Modeling and Analysis - YES, Standard Late Penalty applies
- BIS Project and Portfolio - NO, unless Special Consideration is granted

We strongly encourage all students to actively participate in all learning activities. Regular engagement is crucial for your success in this unit, as these activities provide opportunities to deepen your understanding of the material, collaborate with peers, and receive valuable feedback from instructors, to assist in completing the unit assessments. Your active participation not only enhances your own learning experience but also contributes to a vibrant and dynamic learning environment for everyone.

AI Approach

Any use of AI for assessment must in be compliance with [Macquarie's Approach to AI and Assessment](#)

Assessment Tasks

Name	Weighting	Hurdle	Due	Groupwork/Individual	Short Extension	AI Approach
ERP Modeling and Analysis	20%	No	04/09/2026	Individual	Yes	Open
BIS Project	50%	No	23/10/2026	Individual and Group	No	Open
Portfolio	30%	No	06/11/2026	Individual	No	Observed

ERP Modeling and Analysis

Assessment Type ¹: Written Submission

Indicative Time on Task ²: 20 hours

Due: **04/09/2026**

Weighting: **20%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open

This individual assignment will conduct a case study of an ERP system.

On successful completion you will be able to:

- Competently use information modelling techniques to design business relevant information systems for organisations, focusing on the design of static systems such as databases, along with dynamic systems designed to perform real-time updates.
- Analyse the functionality and business context for enterprise system concepts including ERP, BI, CRM, Enterprise 2.0 and Industry 4.0, and recommend appropriate investments based on the specific business context.
- Use strategic planning with a view to recommending to management the impact of emerging IT trends such as mobile, cloud, social and big data, to generate opportunities for business growth.

BIS Project

Assessment Type ¹: Portfolio

Indicative Time on Task ²: 50 hours

Due: **23/10/2026**

Weighting: **50%**

Groupwork/Individual: Individual and Group

Short extension ³: No

AI Approach: Open

This group assignment will consider a contemporary IT major initiative and develop a business information system solution for a chosen company. 20 of the 50 marks for this assignment will be individual tasks and project presentation that is individually graded. 30 of the 50 marks will be the group work including a technical report.

On successful completion you will be able to:

- Competently use information modelling techniques to design business relevant information systems for organisations, focusing on the design of static systems such as databases, along with dynamic systems designed to perform real-time updates.
- Analyse the functionality and business context for enterprise system concepts including ERP, BI, CRM, Enterprise 2.0 and Industry 4.0, and recommend appropriate investments based on the specific business context.
- Use strategic planning with a view to recommending to management the impact of emerging IT trends such as mobile, cloud, social and big data, to generate opportunities for business growth.

- Practice professional etiquette and maturity as individuals and whilst working in a team to deliver IT solutions to the wider enterprise.
- Demonstrate proficiency in leadership, communication, critical analysis, problem-solving, and creative thinking.

Portfolio

Assessment Type ¹: Portfolio

Indicative Time on Task ²: 30 hours

Due: **06/11/2026**

Weighting: **30%**

Groupwork/Individual: Individual

Short extension ³: No

AI Approach: Observed

This individual assignment is to develop a portfolio of knowledge from the unit content as proof to employers of the students skill.

On successful completion you will be able to:

- Competently use information modelling techniques to design business relevant information systems for organisations, focusing on the design of static systems such as databases, along with dynamic systems designed to perform real-time updates.
- Analyse the functionality and business context for enterprise system concepts including ERP, BI, CRM, Enterprise 2.0 and Industry 4.0, and recommend appropriate investments based on the specific business context.
- Use strategic planning with a view to recommending to management the impact of emerging IT trends such as mobile, cloud, social and big data, to generate opportunities for business growth.
- Practice professional etiquette and maturity as individuals and whilst working in a team to deliver IT solutions to the wider enterprise.
- Demonstrate proficiency in leadership, communication, critical analysis, problem-solving, and creative thinking.

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
- [Academic Success](#) 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.

³ An automatic short extension is available for some assessments. Apply through the [Service Connect Portal](#).

Delivery and Resources

Class

Each week you should register for 3 hours of seminar classes. All classes start from Week 1. For details of days, times and rooms consult your timetable.

All classes will be run on campus.

Mandatory text

K. C. Laudon and J. P. Laudon “Management Information Systems: Managing The Digital Firm” 17th Edition, Pearson.

Website and access to unit material

The web page and content for this unit can be found at iLearn: <https://ilearn.mq.edu.au/login/MQ/>. Note that the unit content is not publicly available and requires for you to log in to access.

Method of communication

We will communicate with you via your university email or through announcements on iLearn. Queries to teaching staff can either be placed on the iLearn discussion board or sent to their university email address from your university email address.

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 connect.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/>

Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Ask a Study Coach](#)
- [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 the [Service Connect Portal](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit <https://students.mq.edu.au/support/technology/service-desk>.

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.

Changes from Previous Offering

Learning activities have been updated to weekly 3-hour seminar.

We value student feedback to be able to continually improve the way we offer our units. As such we encourage students to provide constructive feedback via student surveys, to the teaching staff directly, or via the FSE Student Experience & Feedback link in the iLearn page.

Student feedback from the previous offering of this unit was positive overall, with students pleased with the clarity around assessment requirements and the level of support from teaching staff. As such, no change to the delivery of the unit is planned, however we will continue to strive to improve the level of support and the level of student engagement.

Unit information based on version 2026.03 of the [Handbook](#)