



# COMP7750

## Information Systems Design and Management

Session 2, In person-scheduled-weekday, North Ryde 2024

*School of Computing*

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#### Disclaimer

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## General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

co-badged with COMP8750

Unit description

This unit focuses on enterprise management information systems and the technologies used in their design, implementation and maintenance. The alignment of information systems with business strategy and the socio-technical aspects of systems development are explored. Systems discussed include ERP, CRM, Business Intelligence and Groupware. The nexus between social media, cloud computing, mobile devices and big data is considered. A case study analysing the business rationale for an enterprise systems project is conducted.

## 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:** Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.

**ULO2:** Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.

**ULO3:** Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies

**ULO4:** Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

## General Assessment Information

### Requirements to Pass this Unit:

Attempt all assessments, and achieve a total mark equal to or greater than 50%.

### Assessments where Late Submissions will be accepted:

- Individual Assignments - YES, Standard Late Penalty applies
- Group Assignment and Presentation - NO, unless Special Consideration is granted

### Late Assessment Submission Penalty:

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark of the task) will be applied for each day a written report or presentation assessment is not submitted, up until the 7<sup>th</sup> day (including weekends). After the 7<sup>th</sup> day, a grade of '0' will be awarded even if the assessment is submitted. The submission time for all uploaded assessments is **11:55 pm**. A 1-hour grace period will be provided to students who experience a technical concern.

For any late submission of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, please apply for [Special Consideration](#).

### Special Consideration

The [Special Consideration Policy](#) aims to support students who have been impacted by short-term circumstances or events that are serious, unavoidable and significantly disruptive, and which may affect their performance in assessment. If you experience circumstances or events that affect your ability to complete the assessments in this unit on time, please inform the convenor and submit a Special Consideration request through [ask.mq.edu.au](https://ask.mq.edu.au).

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#"><u>ERP Modeling and Analysis</u></a>	20%	No	Week 7
<a href="#"><u>BIS Project (Part A)</u></a>	30%	No	Week 11
<a href="#"><u>BIS Project (Part B)</u></a>	10%	No	Week 11
<a href="#"><u>Presentation based on BIS Project</u></a>	10%	No	Week 12
<a href="#"><u>Examination</u></a>	30%	No	Exam Week

### ERP Modeling and Analysis

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

Indicative Time on Task <sup>2</sup>: 20 hours

Due: **Week 7**

Weighting: **20%**

This individual assignment will conduct a case study of an ERP system. Tasks include identifying issues and challenges in the ERP implementation, using either the unified modelling language (UML) or other IS modelling approach to re-design relevant component(s) of the ERP system to be implemented, recommending a series of different go forward strategies based on the latest available technology.

On successful completion you will be able to:

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- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies

### BIS Project (Part A)

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

Indicative Time on Task <sup>2</sup>: 30 hours

Due: **Week 11**

Weighting: **30%**

This group assignment will consider a contemporary IT major initiative and develop a business information system solution for a chosen company.

On successful completion you will be able to:

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

## BIS Project (Part B)

Assessment Type <sup>1</sup>: Reflective Writing

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Week 11**

Weighting: **10%**

Based on your group experience in BIS Project (Part A), present an individual reflective report on the group's experience, outlining the successes and failures, what worked well and those aspects that did not.

On successful completion you will be able to:

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies

- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

## Presentation based on BIS Project

Assessment Type **1**: Presentation

Indicative Time on Task **2**: 10 hours

Due: **Week 12**

Weighting: **10%**

A presentation of the material produced in the group assignment BIS Project (Part A)

On successful completion you will be able to:

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- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

## Examination

Assessment Type **1**: Examination

Indicative Time on Task **2**: 30 hours

Due: **Exam Week**

Weighting: **30%**

An exam with questions based on the lecture and reference material presented throughout the course.

On successful completion you will be able to:

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- Analyse the functionality and business context for major enterprise systems including

ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.

- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies

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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

### Delivery and Resources

#### Class

Each week we will run a lecture for 2 hours and a SGTA for 1 hour. Lecture classes start in week 1, and SGTA classes start in week 2.. For details of days and times consult the [timetable in eStudent](#).

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.

#### COVID Information

For the latest information on the University's response to COVID-19, please refer to the Coronavirus infection page on the Macquarie website. Remember to check this page regularly in case the information and requirements change during semester. If there are any changes to this unit in relation to COVID, these will be communicated via iLearn.

## Unit Schedule

Tentative unit schedule (subject to change)

Week	Topic	Note
1	Introduction to unit, information systems design and management	
2	IT infrastructure, emerging technologies	
3	Artificial intelligence and business intelligence	
4	Networking technologies and information system security	
5	eCommerce and enterprise application	
6	Guest Lecture (tentative)	
7	Information systems and global eBusiness	ERP Assignment due
8	Information systems design and development	
Recess	16 - 27 Sept 2024	
9	Business case for information systems	
10	Global information system management	
11	Information systems and organization strategy, ethical and social issues	BIS (PartA and PartB) due
12	Group Presentation	BIS Presentation
13	Revision/Group Presentation	
Exam Weeks	Final Exam	

## 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.

## Changes from Previous Offering

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. We have made adjustments to assessment items, and the workload expectations for assessments and learning activities.

## Changes since First Published

Date	Description
09/07/2024	Updated week1 class information and Changes from Previous Offering.

Unit information based on version 2024.03 of the [Handbook](#)