



COMP7750

Information Systems Design and Management

Session 2, In person-scheduled-weekday, North Ryde 2023

School of Computing

Contents

<u>General Information</u>	2
<u>Learning Outcomes</u>	2
<u>General Assessment Information</u>	3
<u>Assessment Tasks</u>	3
<u>Delivery and Resources</u>	7
<u>Unit Schedule</u>	7
<u>Policies and Procedures</u>	8
<u>Changes from Previous Offering</u>	10
<u>Changes since First Published</u>	10

Disclaimer

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General Information

Unit convenor and teaching staff

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Lecturer

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Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

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
- Quizzes and Group Assignment - 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 7th day (including weekends). After the 7th 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.

Assessment Tasks

Name	Weighting	Hurdle	Due
Weekly Quiz	10%	No	Weeks 3, 6, 9, 12
Strategic IT Initiatives	20%	No	Week 7
ERP Analysis	10%	No	Week 8

Name	Weighting	Hurdle	Due
Case for IT Capital Project	10%	No	Week 13
Final Examination	50%	No	Exam Week

Weekly Quiz

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 0 hours

Due: **Weeks 3, 6, 9, 12**

Weighting: **10%**

Student will complete a weekly quiz - solutions submitted online.

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.

Strategic IT Initiatives

Assessment Type ¹: Report

Indicative Time on Task ²: 40 hours

Due: **Week 7**

Weighting: **20%**

This is a group assignment. Students start with a contemporary IT major initiative e.g. ERP upgrade, BI, CRM, AI, Cloud, KM, Mobile and IoT. Then, a suitable company is selected and a high level business plan is submitted for the proposal identifying the business context, expected business benefits, a possible technical solution and major risks. Each student is allocated a segment of the report. One deliverable is the group report and the second deliverable is an individual presentation on the component that the student was allocated. Each of these two deliverables counts towards 10% of the final grade.

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.
- 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

ERP Analysis

Assessment Type ¹: Essay

Indicative Time on Task ²: 25 hours

Due: **Week 8**

Weighting: **10%**

This is an individual assignment which considers a detailed real world case study about a failed ERP implementation and provides guidance based on course material on how this company should now proceed. This real company in Taiwan failed with their first wave ERP upgrade. Students are to identify the reasons for this failure and consider a series of different go forward strategies based on the latest available technology.

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

Case for IT Capital Project

Assessment Type ¹: Project

Indicative Time on Task ²: 32 hours

Due: **Week 13**

Weighting: **10%**

Justification for IT Capital Projects - This is an individual assignment which considers a series of IT capital projects and uses non-financial models to prioritise these projects for the given

business context. Eight contemporary IT capital projects are suggested. Each project has good financial returns and is useful to the business, but only 3 to 4 projects can be funded. Non-financial models are used to prioritise the projects.

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.

Final Examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 3 hours

Due: **Exam Week**

Weighting: **50%**

This is a closed book exam with short and long answer questions based on the lecture and reference material presented throughout the course. The questions vary in difficulty. The exam is composed of two parts, A and B, reflecting the two lecture components of the course.

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

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

Delivery and Resources

Class

Each week we will run a lecture for 2 hours and a SGTA for 1 hour. Week 1 classes include lecture and SGTA. For details of days and times consult the [timetables webpage](#).

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: <https://www.mq.edu.au/about/coronavirus-faqs>. 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, Business Intelligence	Quiz 1

4	Networking technologies, information system security	
5	eCommerce, enterprise application	
6	Guest Lecture (tentative)	Quiz 2
7	Information systems in global business	Strategic IT Initiatives Report due
Recess	11 - 24 Sept 2023	
8	Global eBusiness	ERP Analysis due
9	Information systems design and development	Quiz 3
10	Business case for information systems	
11	Global information system management	
12	Information systems and organization strategy, ethical and social issues	Quiz 4
13	Revision	IT Capital Project due
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 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.

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.

Changes since First Published

Date	Description
13/07/2023	updated due dates of Quiz 4 and the last assignment