



# ISYS104

## Introduction to Business Information Systems

S1 Evening 2019

*Dept of Computing*

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#### Disclaimer

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## General Information

Unit convenor and teaching staff

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TBA

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TBA

Credit points

3

Prerequisites

Corequisites

Co-badged status

Unit description

This unit provides students with a basic understanding of the content of information systems; the types of information systems; the current roles of information systems in organisations; and the opportunities and business impacts of information systems. The unit also provides an overview of the tools, techniques and frameworks used to build information systems; the range of information technologies used to support information systems; and the ethical responsibilities of both the information system professional and the private user of information. Every business has an information system. These systems are a fundamental component of the business and provide the business with the information its people need to operate and manage the business. This unit lays a foundation for students to use information systems in the context of accounting, marketing, and finance, or develop business information systems that organisations want and need.

## 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:

To develop an introductory understanding of a range of important and/or current IT issues

To understand the core principles and components of the Information Systems discipline

To recognise how information systems can be used to improve business performance

To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software

To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training

To gain introductory skills with an exposure to a 4th-generation programming environment

To demonstrate foundational learning skills including active engagement in their learning process

## General Assessment Information

### Submission

Details for each assignment will be available via iLearn.

You are encouraged to:

- set your personal deadline earlier than the actual one;
- keep backups of all your important files;
- ensure that no-one else picks up your printouts.

### Late submission

Late work for the quizzes and assignments will not be accepted. If you cannot submit on time because of illness or other circumstances, please contact the lecturer **as soon as possible** so that appropriate measures can be taken.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<u>In Class Participation</u>	5%	Yes	Weeks 1-12, except week 6 & 11
<u>Assignments</u>	10%	No	Week 5 and 10
<u>Quiz</u>	35%	No	Wk 6 & 11
<u>Final Exam</u>	50%	No	TBA

### In Class Participation

Due: **Weeks 1-12, except week 6 & 11**

Weighting: **5%**

**This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)**

**This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks).** In accordance with the Faculty Board they have decided that, from S1 2018, all 100-level units in the Faculty will have a compulsory (hurdle) requirement on participation in tutorials, practicals and laboratories.

In-class voluntary participation will be assessed for 12 workshops during the session. A minimum total of 50% participation (**exclusive of 2 quizzes weeks**) will be required. In-class participation will be worth 5% of the total mark.

**NB. This is a hurdle assessment, in order to pass the unit you will be required to achieve a at least 2.5/5 from the 10 weeks (exclusive of 2 quizzes weeks).** If you receive any formal special consideration you will be given a waiver for that week. Please refer to <https://students.mq.edu.au/study/my-study-program/special-consideration>.

On successful completion you will be able to:

- To demonstrate foundational learning skills including active engagement in their learning process

### Assignments

Due: **Week 5 and 10**

Weighting: **10%**

There are two assignments in the practical workshops for ISYS104, which cover:

Excel (Spreadsheets) and Access (Databases).

The 2 assignments will be due on iLearn with each worth 5%. The total assignment mark for ISYS104 is out of 10%.

**Week Due Assignment Points** 5 Advanced Spreadsheets 5% 10 Advanced Databases 5%  
Total out of 10% (of final grade)

**NB. All details of each assignment will be available via iLearn.**

You are encouraged to:

- set your personal deadline earlier than the actual one;
- keep backups of all your important files.

On successful completion you will be able to:

- To develop an introductory understanding of a range of important and/or current IT issues
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training
- To gain introductory skills with an exposure to a 4th-generation programming environment

## Quiz

Due: **Wk 6 & 11**

Weighting: **35%**

In both weeks 6 and 11 there will be a short quiz in the workshop classes. The quizzes are worth 35% towards the final grade. These quizzes will cover important parts of the unit material and, as well as assessing your current level of mastery of it, give you and your tutor an opportunity to address any problem areas before the final exam paper. The quizzes will also include a short test based on relevant assignments. Please be on time for these classes, as the quiz will be the first thing in the class.

On successful completion you will be able to:

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software

- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training

## Final Exam

Due: **TBA**

Weighting: **50%**

Regarding the examination process, note that

1. you are expected to present yourself for examination at the time and place designated in the [University Examination Timetable](#)
2. the timetable will be available in Draft form approximately eight weeks before the commencement of the examinations and in Final form approximately four weeks before the commencement of examinations
3. no early examinations for individuals or groups of students will be set. All students are expected to ensure that they are available until the end of the teaching semester, that is the final day of the official examination period
4. the only exception to not sitting an examination at the designated time is because of documented illness or unavoidable disruption. In these circumstances, you may wish to consider applying for Special Consideration.
5. If you receive [special consideration](#) for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the [policy](#) prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn ([bit.ly/FSESupp](https://bit.ly/FSESupp)) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

On successful completion you will be able to:

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity

software

- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training
- To gain introductory skills with an exposure to a 4th-generation programming environment

## Delivery and Resources

### Teaching and Learning Strategy

ISYS104 is taught via lectures and workshops (tutorials and practicals) in the laboratory. The feedback that you receive plays also a crucial role in your learning.

Lectures are used to introduce new material, give examples of the advances in business information systems and technologies and put them in a wider context.

Workshops are small group classes which give you the opportunity to interact with your peers and with a tutor who has a sound knowledge of the subject. This also gives you a chance to practice your technical skills.

You have many opportunities to seek for and to receive feedback. During lectures, you are encouraged to ask the lecturer questions to clarify anything you might not be sure of. Assignments have been specially designed to deliver continuous feedback on your work.

Each week you should:

- Attend lectures, take notes, ask questions
- Attend your workshops and seek feedback from your tutor on your work
- Read assigned reading material, add to your notes and prepare questions for your lecturer or tutor
- Start working on any assignments immediately after they have been released.

Lecture notes are made available each week but these notes are intended as an outline of the lecture only and are not a substitute for your own notes or reading additional material.

### Classes

Each week you should attend two hours of lectures and a one hour workshop class.

**Note that workshops run for 12 weeks and commence in week 1, except for the summer period in S3, where each day class represents a traditional week in other sessions.**

Please note that you are **required** to submit a certain number of assignments and participate in a certain number of workshop class. Failure to do so may result in you failing the unit.

### Textbook

The textbook for ISYS104 used this semester is:

***Experiencing MIS, Global Edition (7th edition) by Kroenke and Boyle (without MyLab)***

(ISBN: 9781292163574 for hardcopy and ISBN: 9781292163581 for eBook)

## Technology used and required

### iLecture/echo

Digital recordings of lectures are available.

### Software

ISYS104 uses Microsoft Office Excel and Access in the lab and for the assignments.

### Website

The web page for this unit can be found at <https://ilearn.mq.edu.au>.

## Staff-Student Liaison Committee

Liaison meetings will be organized in week 7. If you have any issues to be addressed you can bring them in the meetings. You can also consult the Director of Teaching (Dr Steve Cassidy) or the Head of Department (Dr Michael Sheng). You are entitled to have your concerns raised, discussed and resolved.

## Student Support Services

Macquarie University provides a range of Academic Student Support Services. Details of these services can be accessed at <https://students.mq.edu.au/>.

## Assumed knowledge

Basic computer use skills.

## Unit Schedule

Week	Lecture Topics/Events	Workshop Events	Textbook Chapter Reference
1	The Importance of MIS	Get familiar with the computer systems in the lab, and get access to course materials.  <b>Introduction to Assignment 1.</b>  Excel exercises related to Assignment 1.	Chapter 1
2	Business Processes, Information Systems, and Information	Excel exercises related to Assignment 1.	Chapter 2
3	Organizational Strategy, Information Systems, and Competitive Advantage	Excel exercises related to Assignment 1.	Chapter 3



4	Hardware and Software	<b>Introduction to Assignment 2.</b> Access exercises related to Assignment 2. A chance to ask questions related to Assignment 1.	Chapter 4
5	Database Processing	Review for Quiz 1. Last chance to ask questions related to Assignment 1. <b>Assignment 1 due on Friday at 5 pm.</b>	Chapter 5
6	The Cloud	<b>Quiz 1 in class.</b>	Chapter 6
7	Organizations and Information Systems	Access exercises related to Assignment 2.	Chapter 7
8	Social Media Information Systems	Access exercises related to Assignment 2.	Chapter 8
9	Business Intelligence Systems	Access exercises related to Assignment 2.	Chapter 9
10	Information Systems Security	Review for Quiz 2. Last chance to ask questions related to Assignment 2. <b>Assignment 2 due on Friday at 5 pm.</b>	Chapter 10
11	Information Systems Management	<b>Quiz 2 in class.</b>	Chapter 11
12	Information Systems Development	Revision on Excel and Access.	Chapter 12
13	Revision of the entire unit for the final exam	<b>No Workshops</b>	

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>). 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](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** *The Special Consideration Policy is effective from 4*

*December 2017 and replaces the Disruption to Studies Policy.)*

Undergraduate students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/student-policy-gateway) (<https://students.mq.edu.au/support/study/student-policy-gateway>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/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](https://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

## Learning Skills

Learning Skills ([mq.edu.au/learningskills](https://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](https://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## 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.

## Graduate Capabilities

### Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

#### Learning outcomes

- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training

#### Assessment tasks

- Assignments
- Quiz

### Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

#### Learning outcomes

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline

- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training

## **Assessment tasks**

- Assignments
- Quiz
- Final Exam

## **Commitment to Continuous Learning**

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

## **Learning outcomes**

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training
- To demonstrate foundational learning skills including active engagement in their learning process

## **Assessment tasks**

- In Class Participation
- Assignments
- Quiz
- Final Exam

## Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

### Learning outcomes

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training
- To demonstrate foundational learning skills including active engagement in their learning process

### Assessment tasks

- In Class Participation
- Assignments
- Quiz
- Final Exam

## Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

### Learning outcomes

- To develop an introductory understanding of a range of important and/or current IT

issues

- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training

## **Assessment tasks**

- Assignments
- Quiz
- Final Exam

## **Problem Solving and Research Capability**

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

## **Learning outcomes**

- To develop an introductory understanding of a range of important and/or current IT issues
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To develop an understanding of how such applications work, to a level where students can learn new material without requiring formal training
- To gain introductory skills with an exposure to a 4th-generation programming environment

## **Assessment tasks**

- Assignments
- Quiz
- Final Exam

## Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

### Learning outcomes

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance
- To demonstrate a competence with basic information technology applications, including basic computer management, e-mail, web browsers, web-page creators and productivity software
- To demonstrate foundational learning skills including active engagement in their learning process

### Assessment tasks

- In Class Participation
- Assignments
- Quiz
- Final Exam

## Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

### Learning outcomes

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline

- To recognise how information systems can be used to improve business performance
- To demonstrate foundational learning skills including active engagement in their learning process

## **Assessment tasks**

- In Class Participation
- Quiz
- Final Exam

## **Socially and Environmentally Active and Responsible**

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

## **Learning outcomes**

- To develop an introductory understanding of a range of important and/or current IT issues
- To understand the core principles and components of the Information Systems discipline
- To recognise how information systems can be used to improve business performance

## **Assessment tasks**

- Assignments
- Quiz
- Final Exam

## **Changes from Previous Offering**

The weights of the assessments are changed: assignments 10%, quizzes: 35%, attendance 5% (hurdle assessment). Make sure you attend at least 5 out of 10 pracs (exclusive of 2 quiz weeks) to pass the unit.

The subscribed textbook is changed to: Experiencing MIS, 7th edition, by Kroenke and Boyle.

## **Standards and Grading**

Unlike many units, ISYS104 covers a wide range of areas, but at limited depth. Therefore it is not appropriate to identify core knowledge and assess the students' mastery of that at increasing levels of complexity. Instead, the assessment of learning outcomes is based in large part on the amount of knowledge the student gains across the range of the unit, as assessed by performance in the assignments, quizzes, practical exam and final examination.



## GRADING

<u>L.O. 1-3</u>	PASS	CREDIT	DISTINCTION	HIGH DISTINCTION
Knowledge development	Reproduce definitions and ideas, show some breath of understanding	Show breath of understanding across most of the unit material	Apply terminology and ideas in some new contexts, show breath of understanding across most of the unit material	Apply terminology and ideas in new contexts, show breath of understanding
<u>L.O. 4-6</u>	PASS	CREDIT	DISTINCTION	HIGH DISTINCTION
Application Literacy	Able to use most of the application functionality specified in the assignments and practical exam	Able to use almost all of the application functionality specified in the assignments and practical exam for one of the applications covered, and most of the functionality for the remainder.	Able to use almost all of the application functionality specified in the assignments and practical exam for half of the applications covered, and most of the functionality for the other half.	Able to use almost all of the application functionality specified in the assignments and practical exam

Your final grade will depend on your performance in each part of the assessment of the unit. In Class Participation is a hurdle. In order to pass the unit, you must attend at least 5 out of 10 mix classes (exclude the two quizzes week) as explained in the Assessment tasks. In addition to this hurdle, to obtain a grade of Pass (P) or higher in this unit you will need to obtain an overall mark of at least 50% (calculated according to the weightings given above).

Obtaining a higher grade than a Pass (P) in this unit will require a student to obtain the required total number of marks (Credit - 65, Distinction - 75, High Distinction - 85).

If you receive special consideration for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the policy prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn ([bit.ly/FSESupp](https://unitguides.mq.edu.au/unit_offerings/104100/unit_guide/print)) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.