



ACCG2050

Information Systems and Data Analytics for Accountants

Session 1, In person-scheduled-weekday, North Ryde 2025

Department of Accounting and Corporate Governance

Contents

<u>General Information</u>	2
<u>Learning Outcomes</u>	2
<u>Assessment Tasks</u>	3
<u>Delivery and Resources</u>	5
<u>Unit Schedule</u>	5
<u>Policies and Procedures</u>	6
<u>Changes since First Published</u>	8

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General Information

Unit convenor and teaching staff

Binh Bui

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Credit points

10

Prerequisites

40cp at 1000 level or above

Corequisites

Co-badged status

Unit description

The aim of this unit is for students to understand the impact that information systems have on business processes and provides the foundation for further studies in accounting, audit and business information systems units. Topics covered include business processes, systems development, internal controls, ethics and cybersecurity, and the role of accounting, accounting information systems and information systems more broadly. The material is presented through a business lens, exploring the benefits and limitations of information systems in organisations. The emphasis in this unit is placed on students understanding the critical role that information systems play in supporting business functions. Students will evaluate the critical nexus between the business and the information systems functions to be able to take advantage of existing and emerging technologies. In this unit students will develop teamwork, presentation and critical thinking skills using case-based materials.

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 role of Information Systems and Accounting Information Systems in supporting the business processes of an organisation

ULO2: Discuss the importance and benefits of systems development methodologies and evaluate the role of ethics and ethical decision making within the Accounting Information

System context.

ULO3: Analyse risks and develop control plans pertinent to primary business activities.

ULO4: Demonstrate effective communication and interaction skills through the delivery of oral presentations and engagement in group discussions

Assessment Tasks

Name	Weighting	Hurdle	Due
Formal and observed learning: Test	45%	No	Week 13
Skills development: Information systems and data analytics	15%	No	Week 4 and Week 9
Professional practice: Business information systems	40%	No	Week 7 and Week 11

Formal and observed learning: Test

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 25 hours

Due: **Week 13**

Weighting: **45%**

The purpose of this assessment is for you to demonstrate your ability to solve problems related to Information Systems and Data Analytics for Accountants.. You will participate in a formal test.

Skills in focus: - Discipline knowledge - Critical thinking - Analytical skills **Deliverable:** Test
Individual assessment

On successful completion you will be able to:

- Evaluate the role of Information Systems and Accounting Information Systems in supporting the business processes of an organisation
- Discuss the importance and benefits of systems development methodologies and evaluate the role of ethics and ethical decision making within the Accounting Information System context.
- Analyse risks and develop control plans pertinent to primary business activities.

Skills development: Information systems and data analytics

Assessment Type ¹: Practice-based task

Indicative Time on Task ²: 15 hours

Due: **Week 4 and Week 9**

Weighting: **15%**

The purpose of this assessment is for you to develop your skills in Information Systems and Data Analytics for Accountants. You will complete tasks relevant to key topics in the unit. **Skills in focus are:** - Critical Analysis - Problem Solving - Communication **Deliverable:** Individual written tasks Individual assessment

On successful completion you will be able to:

- Evaluate the role of Information Systems and Accounting Information Systems in supporting the business processes of an organisation
- Discuss the importance and benefits of systems development methodologies and evaluate the role of ethics and ethical decision making within the Accounting Information System context.
- Analyse risks and develop control plans pertinent to primary business activities.
- Demonstrate effective communication and interaction skills through the delivery of oral presentations and engagement in group discussions

Professional practice: Business information systems

Assessment Type **1**: Problem set

Indicative Time on Task **2**: 40 hours

Due: **Week 7 and Week 11**

Weighting: **40%**

The purpose of this assessment is for you to develop skills essential for designing, implementing and managing business information systems. You will collaborate in teams to solve practical challenges and explore team dynamics. **Skills in focus:** - Collaboration skills - Analytical skills - Problem solving - Self-management **Deliverable:** Written report [max 2,500 words] Individual and group assessment

On successful completion you will be able to:

- Evaluate the role of Information Systems and Accounting Information Systems in supporting the business processes of an organisation
- Discuss the importance and benefits of systems development methodologies and evaluate the role of ethics and ethical decision making within the Accounting Information

System context.

- Analyse risks and develop control plans pertinent to primary business activities.
- Demonstrate effective communication and interaction skills through the delivery of oral presentations and engagement in group discussions

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

Students need to purchase subscriptions to access the required textbooks via Wiley Business Now. [Wiley Business Now \(ipublishcentral.net\)](https://www.wiley.com/go/ipublishcentral)

The textbooks used are:

Blount, Alison Parkes, Brett Considine, Karin Oleson, Y. *Accounting Information Systems*. (5th Edition). Wiley Global Education Australia, 2015.

Rainer, R., K. and Brad Prince. *Introduction to Information Systems, International Adaptation*. (9th Edition). Wiley Global Education UK, 2022

Stone, Cox, Gavin, Carpini. *Human Resource Management* (11th Edition). Wiley Global Education, 2024.

Dzuranin, Ann C., Geerts, G., Lenk, M. *Data and analytics in accounting: An integrated approach* (1st edition). Wiley & Sons, 2022.

Unit Schedule

Week	Topic	Reading (in Wiley Business Now subscription)
1	Introduction to Accounting Information Systems	Chapter 1, Rainer 9ed
2	Organizational Strategy, Competitive Advantage, and Information Systems	Chapter 2, Rainer 9ed
3	Customer Relationship Management and Supply Chain Management	Chapters 10& 11, Rainer 9th
4	Internal Controls	Chapters 8 and 9, Parkes 5ed
5	Revenue Cycle	Chapter 10, Parkes 5ed

6	Expenditure Cycle	Chapter 11, Parkes 5ed
7	HR Management and Payroll Cycle	Chapter 1, Stone 11ed
8	Documentation and Financial Reporting	Chapter 12, Parkes 5ed
9	Data and Analytics in the Accounting Profession	Chapter 1, Dzuranin 1ed
10	Data analytics skills and tools for accountants	Chapter 2, Dzuranin 1ed Chapter 12, Rainer 9ed
11	Systems development and acquisition	Chapter 13, Rainer 9ed
12	Ethics and Cybersecurity	Chapter 3, Rainer 9ed
13	Review	

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.

- [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 the [Service Connect Portal](#), 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 since First Published

Date	Description
12/02/2025	Changes in lecture schedules to integrate data analytics topics

Unit information based on version 2025.04 of the [Handbook](#)