

PRINCIPLES OF INFORMATION SYSTEMS

Unit Code	IS101	AQF Level	7
Unit weighting	Unit credit points: 3		
Pre-requisite or co-requisite	AW101 Academic Writing		
Delivery mode	Face to face on site	Full time or part time	
Location	<i>Sheridan</i> 18/7 Aberdeen St, Piccadilly Square West, Perth WA 6000		
Student Workload	<p><i>Timetabled: 36 hours (3 hours per week over 12 teaching weeks)</i></p> <p><i>Personal Study: 132 hours (9 hours per week over 12 teaching weeks + 12 hours per week over 2 non-teaching weeks)</i></p> <p><i>Total workload: 168 hours (12 hours per week over 14 weeks)</i></p> <p><i>Academic writing support available if needed</i></p>		
Prescribed Textbook(s)	Stair, R., & Reynolds, G. (2016). <i>Principles of information systems</i> (13th ed.). Cengage Learning.		
Other resource requirements	Access to the Learning Management System Canvas canvas.sheridan.edu.au		
Work-integrated learning activity	Not applicable		
Timetabled day and time	Friday 1pm – 4pm	Room	Room 6 (Pearl)
Unit Coordinator	Dr Maya Krayneva	Phone:	6222-4222
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Unit Description

Welcome to the Principles of Information Systems unit. This unit helps students develop an understanding of the basic concepts and principles of information systems. It provides students with an overview of information systems and their role in business today.

The unit first introduces basic information technology concepts such as hardware and software, data and information, and communication networks. Then, the unit specifically focuses on business information systems and discusses electronic and mobile commerce, enterprise systems and various specialized information systems. It further discusses different stages of system development including investigation, analysis, design, implementation, maintenance, and review. The personal and social impact of computers is also covered in this unit.

The Principles of Information Systems unit provides students with insights they need to become efficient and effective employers, supervisors, decision makers, and organizational leaders in business today. It also provides a solid foundation for those willing to undertake more advanced information systems related studies.

Principles of Information Systems Learning Outcomes

Upon successful completion of this unit, you will be able to:

- A. Demonstrate knowledge of information technology concepts and the role of information systems in business and society today.
- B. Critically analyse and evaluate real-world problems and situations, and identify underlying issues.
- C. Apply learned knowledge to develop information systems-based solutions to business-related problems and challenges.
- D. Identify, research, and analyse relevant information, and use this information effectively and appropriately.
- E. Effectively communicate ideas and knowledge.

Sheridan Graduate Attributes

Sheridan graduates will be ...

1. Lovers of truth
2. Seekers of wisdom
3. Innovative thinkers
4. Effective communicators
5. Independent learners
6. Servant leaders

Assessment Schedule

Assessment Type	Value	Due Date	Learning Outcomes (LOs) Assessed	Graduate Attributes (GAs) Addressed
1. Mid-trimester test	30%	Week 7	A, D	1, 2, 5
2. Problem-solving assignment	20%	Week 10	B, C, E	3, 4
3. Final exam	50%	Week 15	A, D	1, 2, 5

NB: You must submit all assessments in order to satisfy the unit requirements.

1. Mid-trimester test

The Mid-trimester test will be a 2-hour open book test of written form. It will assess all the material covered between Weeks 1 and Week 6 (inclusive) and its application on a *case study* sourced from the textbook.

The test will have two sections:

- Section A: Short answers. Student will be given 5 short answer questions (such as illustrating or explaining something). Each question will be worth 2% giving a total of 10% of the overall mark for this unit.
- Section B: Small essays. Student will be given 4 essay topics to apply and illustrate on their case study. Each essay will be worth 5% giving a total of 20% of the overall mark for this unit.

2. Problem-solving assignment

Each student will choose a problem-solving exercise relevant for their future career dreams and goals. The student will then apply learned knowledge to resolve the problem and write an assignment under the following sections: Problem definition, Solution proposal, Solution implementation, Outcomes, Conclusion/Life application. Word Limit 2000 words.

Assessment Type	Problem-solving assignment rubric				
Criteria /Grade	High Distinction (80-100%)	Distinction (70-79%)	Credit (60-69%)	Pass (50-59%)	Fail (0-49%)
Ability to critically analyse and evaluate real world cases	Excellent ability to critically analyse and evaluate real world cases	Pronounced ability to critically analyse and evaluate real world cases	Credible ability to critically analyse and evaluate real world cases	Some ability to critically analyse and evaluate real world case	No ability to critically analyse and evaluate real world cases
Demonstrated ability to apply learned knowledge	Exemplary ability to apply learned knowledge	Strong ability to apply learned knowledge	Credible ability to apply learned knowledge	Limited ability to apply learned knowledge	No ability to apply learned knowledge
Demonstrated ability to propose and develop real world solutions	Exemplary ability to propose and develop real world solutions	Pronounced ability to propose and develop real world solutions	Sound ability to propose and develop real world solutions	Satisfactory ability to propose and develop real world solutions	No ability to propose and develop real world solutions
Ability to communicate effectively	Excellent ability to communicate effectively	Strong ability to communicate effectively	Credible ability to communicate effectively	Limited ability to communicate effectively	No ability to communicate effectively

Every criteria component has equal contribution (1/4) towards the total mark for this assignment.

3. Final Exam

The final exam will be a 3-hour closed book exam of written form assessing all the material covered in the unit.

It will have two sections:

- Section A: Short answers. Student will be given 10 short answer questions (such as defining or explaining something). Each question will be worth 2% giving a total of 20% of the overall mark for this unit.
- Section B: Small essays. Student will be given 5 essay topics from the material covered in the lectures. Each essay will be worth 6% giving a total of 30% of the overall mark for this unit.

Learning Resources

Prescribed Textbook(s)

Stair, R., & Reynolds, G. (2016). *Principles of information systems* (13th ed.). Cengage Learning.

Recommended Supplementary Reading

Rainer, R. K. & Prince, B. (2019). *Introduction to information systems* (8th ed.). Wiley.

Academic Journals

You may find relevant articles in the following journals:

- *ACM Transactions on Information Systems*
- *Bulletin of Applied Computing and Information Technology*
- *International Journal of Business Information Systems*
- *International Journal of Information Systems and Supply Chain Management*
- *Information Systems*
- *Information Systems Management*
- *Information Systems Research*
- *Issues in Information Systems*

Weekly Schedule of Topics

IS101 and Principles of Information Systems

Prescribed text(s):

Stair, R., & Reynolds, G. (2016). *Principles of information systems* (13th ed.). Cengage Learning.

WEEK	TOPICS	PRESCRIBED READINGS	ASSESSMENTS
1	Welcome, Unit Outline and Structure; Administration Procedures; Discussion about Assessments; An Introduction to Information Systems		
2	Information Systems in Organizations	Chapter 1 and 2	
3	Hardware and Software	Chapter 3 and 4	
4	Organizing Data and Information	Chapter 5	
5	In-trimester Study Week		
6	Networks and Cloud Computing	Chapter 6	
7	Review and Mid-trimester Test	Chapters 1-6	Mid-trimester test, 30%
8	Electronic and Mobile Commerce	Chapter 7	
9	Enterprise Systems and Business Intelligence	Chapters 8 and 9	
10	Knowledge Management and Specialized Information Systems	Chapter 10	Problem-solving assignment, 20%
11	Strategic Planning and Project Management Systems Acquisition and Development	Chapters 11 and 12	
12	Information Systems in Business and Society	Chapter 13 and 14	
13	Review Chapters 1-14		
14	Pre-exam Study Week		
15	Exam week		Final exam, 50%