COURSE OUTLINE

ICT115 Introduction to Systems Design

School: School of Science, Technology and Engineering

2026 | Trimester 2

UniSC Sunshine Coast UniSC Moreton Bay UniSC Adelaide	BLENDED LEARNING	Most of your course is on campus but you may be able to do some components of this course online.
Online	ONLINE	You can do this course without coming onto campus, unless your program has specified a mandatory onsite requirement.

Please go to unisc.edu.au for up to date information on the teaching sessions and campuses where this course is usually offered.

1. What is this course about?

1.1. Description

All businesses rely on effective systems to collect and maintain business data. The design and interaction of these systems is paramount for businesses to effectively utilise their data. This course introduces the foundation concepts of systems design, including the collection and modelling of system requirements and processes, engaging stakeholders and integrating new systems into larger architectures.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Learning materials – Pre-recorded concept videos and associated activity	1hr	Week 1	12 times
Tutorial/Workshop 1 – In-class tutorial	2hrs	Week 1	12 times
Seminar – On campus seminar	1hr	Week 1	2 times
ONLINE			
Learning materials – Pre-recorded concept videos and associated activity	1hr	Week 1	12 times
Tutorial/Workshop 1 – Interactive zoom tutorial	2hrs	Week 1	12 times
Seminar – Online seminar	1hr	Week 1	2 times

1.3. Course Topics

Introduction to systems analysis and design
Analysing the business case
Managing systems projects
Requirements engineering
Data and process modeling
Object modeling
Development strategies
User interface design
Data design
System architecture
Managing system implementation
System support and security

2. What level is this course?

100 Level (Introductory)

Engaging with discipline knowledge and skills at foundational level, broad application of knowledge and skills in familiar contexts and with support. Limited or no prerequisites. Normally, associated with the first full-time study year of an undergraduate program.

3. What is the unit value of this course?

12 units

4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES On successful completion of this course, you should be able to...		GRADUATE QUALITIES Completing these tasks successfully will contribute to you becoming...
1	Use the foundational concepts of Systems Analysis & Design	Knowledgeable
2	Discuss and demonstrate fundamental Systems Analysis & Design concepts	Creative and critical thinker Engaged
3	Demonstrate knowledge and the utilisation of modern Systems Analysis & Design strategies and techniques.	Knowledgeable Creative and critical thinker Engaged

5. Am I eligible to enrol in this course?

Refer to the UniSC Glossary of terms for definitions of “pre-requisites, co-requisites and anti-requisites”.

5.1. Pre-requisites

Not applicable

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

5.4. Specific assumed prior knowledge and skills (where applicable)

Not applicable

5.5. Microcredential Information

Not applicable

6. How am I going to be assessed?

6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

6.2. Details of early feedback on progress

Weekly online quizzes will be used over 11 weeks to cement learnings from the week's online content and to provide formative feedback. Feedback from the quizzes will enable students to understand how well they are grasping content and keeping up with the course. An online test will be run in week 5 so that students have early summative feedback about their progress.

6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1	Examination - not Centrally Scheduled	Individual	25%	1 hour	Week 4	Online Test (Quiz)
All	2	Report	Group	40%	1,500 words	Week 8	Online Assignment Submission with plagiarism check
All	3	Examination - not Centrally Scheduled	Individual	35%	2 hours	Week 12	Online Test (Quiz)

All - Assessment Task 1: Online test

GOAL:	The purpose of this task is for you to demonstrate your knowledge of the fundamental concepts of systems planning, analysis and design.
PRODUCT:	Examination - not Centrally Scheduled
AUTHORSHIP STATEMENT:	
FORMAT:	Online test with a combination of multiple-choice and short answer questions.
CRITERIA:	**No.** — **Learning Outcome assessed** 1 Comprehension and knowledge of requisite course material. — 1 3
GENERIC SKILLS:	Communication, Problem solving

All - Assessment Task 2: Systems Design Case Study Report

GOAL:	Apply systems planning, analysis and design concepts to a case study.
PRODUCT:	Report
AUTHORSHIP STATEMENT:	
FORMAT:	Case study report and diagrams (~1,500 words). This report will follow a standard business report format. The organisation's details will be provided in a case study. Further details will be available on Canvas in the assignment specification

CRITERIA:

No.		Learning Outcome assessed
1	To demonstrate applied understanding of Systems Analysis, Design and Architecture.	1
2	Presentation and organisation of presentation and report	3
3	Analysis of what systems analysis and design are applicable to this case study.	2
4	Application of systems analysis and design concepts to the case study.	3
5	Recommendation for future use of systems analysis	2
6	Clear summary of relevant information	1 2

GENERIC SKILLS:	Communication, Collaboration, Problem solving, Organisation

All - Assessment Task 3: Online test

GOAL:	The purpose of this task is for you to demonstrate your knowledge of the fundamental concepts of systems planning, analysis and design.
PRODUCT:	Examination - not Centrally Scheduled
AUTHORSHIP STATEMENT:	
FORMAT:	This two-hour examination will test understanding and application of concepts. This is an individual assessment.

CRITERIA:

No.		Learning Outcome assessed
1	Comprehend, apply and communicate definitions and concepts used in systems design.	1
2	Comprehend and discuss the position of system design in organisations	2
3	Define a business problem and present the systems design to solve the problem	3

GENERIC SKILLS:	Communication, Problem solving, Applying technologies, Information literacy

7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

8.1. Prescribed text(s) or course reader

You need regular access to the resource(s) below. Many texts are available as ebooks through the Library at no additional cost.

REQUIRED?	AUTHOR	YEAR	TITLE	EDITION	PUBLISHER
Recommended	Scott Tilley	2019	Systems Analysis and Design	12th ed	Course Technology

8.2. Specific requirements

Not applicable

9. How are risks managed in this course?

Health and safety risks for this course have been assessed as low. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the online induction training for students, and following the instructions of the University staff.

10. What administrative information is relevant to this course?

10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

10.2. Assessment: Additional Requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:
(a) The final mark is in the percentage range 47% to 49.4%; and
(b) The course is graded using the Standard Grading scale

10.3. Assessment: Submission penalties

Late submissions may be penalised up to and including the following maximum percentage of the assessment task's identified value, with weekdays and weekends included in the calculation of days late:
(a) One day: deduct 5%;
(b) Two days: deduct 10%;
(c) Three days: deduct 20%;
(d) Four days: deduct 40%;
(e) Five days: deduct 60%;
(f) Six days: deduct 80%;
(g) Seven days: A result of zero is awarded for the assessment task.

The following penalties will apply for a late submission for an online examination:
Less than 15 minutes: No penalty
From 15 minutes to 30 minutes: 20% penalty
More than 30 minutes: 100% penalty

10.4. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching

10.5. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The Student Charter sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

10.6. General Enquiries

For course-specific questions, contact your teaching staff or Course Coordinator.

For other enquiries or to access support, please contact Student Central:

- UniSC Student Central
- UniSC Adelaide Student Central