COURSE OUTLINE

ICT200 Systems Analysis and Design

School: School of Science, Technology and Engineering

2026 | Trimester 1

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

This advanced course introduces you to a range of concepts used in the analysis and design of complex information systems. You will gain practical skills in modelling systems from the process and object perspectives as well as an understanding of the approaches that can be used when undertaking a holistic analysis and design project.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Learning materials – Asynchronous learning material	1hr	Week 1	12 times
Tutorial/Workshop 1 – on-campus	2hrs	Week 1	12 times
ONLINE			
Learning materials – Asynchronous learning material	1hr	Week 1	12 times
Tutorial/Workshop 1 – Online workshop	2hrs	Week 1	12 times

1.3. Course Topics

System Modelling
Requirements Gathering Use Cases
Use Cases
Domain modelling
Extending the requirements model
Design and design activities
Designing the graphical user interface
Approaches to System analysis and Design
Object Oriented design principles
Object Oriented design principles Continued
Implementing the system

2. What level is this course?

200 Level (Developing)

Building on and expanding the scope of introductory knowledge and skills, developing breadth or depth and applying knowledge and skills in a new context. May require pre-requisites where discipline specific introductory knowledge or skills is necessary. Normally, undertaken in the second or third full-time year of an undergraduate programs.

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	Apply system analysis and design skills using structured and object-oriented approaches.	Empowered
2	Analyse and justify the selection of the most appropriate system development approach for the project	Creative and critical thinker
3	Communicate systems analysis and design problem solutions in an organisational context	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

ICT115

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

The Task 1 mid trimester exam (and preparation leading up to the exam) is designed to help students develop skills they will require to complete Tasks 2 and 3.

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	15%	60 Minutes (800 words)	Week 5	Online Assignment Submission with plagiarism check
All	2	Report	Individual	35%	1500 words	Week 10	Online Assignment Submission with plagiarism check
All	3	Examination - Centrally Scheduled	Individual	50%	2 Hours (2000 words)	Week 12	Online Assignment Submission with plagiarism check

All - Assessment Task 1: Mid trimester examination

GOAL:	You will demonstrate your cognitive and technical skills in systems analysis and design.
PRODUCT:	Examination - not Centrally Scheduled
AUTHORSHIP STATEMENT:	
FORMAT:	A sixty-minute examination, comprising questions from the information obtained during the computer workshop activities, learning material and additional readings specified.
CRITERIA:	**No.** — **Learning Outcome assessed** 1 Fifty-minute closed book examination comprising questions from the information obtained during the computer workshop activities, learning material and additional readings specified. — 1 2 3
GENERIC SKILLS:	Communication, Problem solving, Applying technologies

All - Assessment Task 2: Report

GOAL:	You will demonstrate your cognitive and technical skills in object-oriented analysis and design of system in response to a case study.
PRODUCT:	Report
AUTHORSHIP STATEMENT:	
FORMAT:	You are to write a report that includes an outline of systems requirements for an information systems solution to a business case study. This report will discuss methodologies and include models of the solution using Unified Modelling Language (UML).

CRITERIA:

No.		Learning Outcome assessed
1	Demonstrate knowledge of problem-solving and/or analytical processes appropriate to systems analysis and design	1
2	Demonstrate an understanding of the decision-making process and recognise any cognitive biases that may occur when making decisions	2
3	Identify and critically analyse pertinent issues in a business context	1
4	Utilise creative, reflective and critical thinking to develop, evaluate and justify innovative solutions to business case study	3

GENERIC SKILLS:	Communication, Problem solving, Applying technologies

All - Assessment Task 3: Final examination

GOAL:	You will reflect on what you have learned from assessment tasks 1 and 2
PRODUCT:	Examination - Centrally Scheduled
AUTHORSHIP STATEMENT:	
FORMAT:	The final two (2) hour exam will be conducted at the end of the trimester at a time to be announced by Student Administration.

CRITERIA:

No.		Learning Outcome assessed
1	Two hour examination comprising questions from the information obtained during the computer workshop activities, learning materials and additional readings specified.	1 2 3

GENERIC SKILLS:	Communication, Problem solving, Applying technologies

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
Required	John W. Satzinger,Robert B. Jackson,Stephen D. Burd	2015	Systems Analysis and Design in a Changing World	n/a	Cengage Learning

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