USC

Course Outline	

Code: ICT115
Title: Introduction to Systems Design

School:	Business
Teaching Session:	Semester 2
Year:	2020
Course Coordinator:	Dr Anne Ozdowska
Course Moderator:	Dr Jacqueline Blake

Please go to the USC website 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

Modern businesses are based on a collection of systems. The design and interaction of these systems is paramount for the business to be successful in the global world. This course introduces the foundation concepts of systems analysis and design, including the collection, understanding and analysis of the requirements for the system through to various options in the design of the system and integrating it into the system architecture of the business.

### 1.2	Field trips, WIL placements or activities required by professional accreditation

N/A

## 2.	What level is this course?

100 level Introductory - Discipline knowledge and skills at foundational level, broad application of knowledge and skills in familiar contexts and with support. Normally associated with the first full-time 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?

Specific Learning Outcomes On successful completion of this course, you should be able to:	Assessment tasks You will be assessed on the learning outcomes in task/s:	Graduate Qualities or Professional Standards mapping Completing these tasks successfully will contribute to:
Use the foundational concepts of Systems Analysis & Design	1	Empowered, Knowledgeable, Career ready
Discuss and demonstrate fundamental Systems Analysis & Design concepts	2	Creative and critical thinking, Communication.
Demonstrate knowledge and the utilisation of modern Systems Analysis & Design strategies and techniques.	3	Knowledgeable, Problem Solving, Creative and critical thinking, Communication, Career ready.

5.   Am I eligible to enrol in this course?

Refer to the USC Glossary of terms for definitions of "pre-requisites, co-requisites and anti-requisites".

5.1   Enrolment restrictions

Nil

5.2   Pre-requisites

Nil

5.3   Co-requisites

Nil

5.4   Anti-requisites

Nil

5.5   Specific assumed prior knowledge and skills (where applicable)

N/A

6.   How am I going to be assessed?

6.1   Grading scale

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

6.2   Details of early feedback on progress

Task 1 involves an online multiple-choice assessment. This test will examine material presented between weeks 1 through to week 3.

6.3   Assessment tasks

Task No.	Assessment Product	Individual or Group	Weighting %	What is the duration / length?	When should I submit?	Where should I submit it?
1	Examination	Individual	25%	1 hour	Week 4	Quiz (Online Test)
2	Examination	Individual	25%	1 hour	Week 9	Quiz (Online Test)
3	Report	Individual	50%	1,500 words	Week 12	Online Assignment Submission with Plagiarism check
			100%			

Assessment Task 1: Test

Goal:	The purpose of this task is for you to demonstrate your knowledge of the fundamental concepts of systems planning, analysis, design and implementation.
Product:	Examination
Format:	An examination will be held in week 4. This is an individual assessment. Further details will be available on Blackboard in the assignment specification.
Criteria:	Comprehension and knowledge of requisite course material.

Assessment Task 2: Test

Goal:	Building on Task 1, the purpose of this task is to obtain a comprehensive view of systems design in terms of definitions and concepts, techniques, and solving business problems.
Product:	Examination
Format:	An examination will be held in week 9. This is an individual assessment. Further details will be available on Blackboard in the assignment specification.
Criteria:	Correctly answering the exam questions indicates your ability to: • Comprehend, apply and communicate definitions and concepts used in systems design • Comprehend and discuss the position of system design in organisations • Define a business problem and present the systems design to solve the problem

Assessment Task 3: Systems Design Case Study Report

Goal:	The purpose of this task is to build on the skills developed in Task 1 and 2 in applying systems planning, analysis and design concepts to a case study. This task will help to further develop your understanding of foundational Systems Analysis and Design concepts and practices in business environments.
Product:	Report
Format:	Individual case study report and diagrams, with a maximum of 1,500 words. This individual report will follow a standard business report format. Further details will be available on Blackboard in the assignment specification
Criteria:	To demonstrate applied understanding of Systems Analysis, Design and Architecture. You will be assessed according to your use and application of: • Presentation and organisation of report • Analysis of what systems analysis and design are applicable to this case study. • Application of systems analysis and design concepts to the case study. • Recommendation for future use of systems analysis • Clear summary of relevant information

7.   Directed study hours each week

This course will be delivered via technology-enabled learning and teaching. All lectures will remain in this mode for Semester 2 2020.
When government guidelines allow, students that elected on-campus study via the class selection process will be advised when on campus tutorials and practical sessions will resume.

Student workload is calculated at 12.5 learning hours per one unit.
Each week:
- 1 hour on-line lecture
- 1 hour interactive tutorial
- 1 hour digital content
- 9.5 hours independent study (including assessment work)

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

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

8.1   Prescribed text(s) or course reader

Please note that you need to have regular access to the resource(s) listed below as they are required:

Author	Year	Title	Publisher
Scott Tilley	2019, 12th ed	Systems Analysis and Design	Cengage

8.2   Specific requirements

N/A

9.   How are risks managed in this course?

Health and safety risks for this course have been assessed as low.
It is your responsibility as a student 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. It is also your responsibility to familiarise yourself with the University's general health and safety principles by reviewing the online Health Safety and Wellbeing training module 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 Blackboard, are electronically checked through SafeAssign. This software allows for text comparisons to be made between your submitted assessment item and all other work that SafeAssign has access to.

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%
b)   The course is graded using the Standard Grading scale
c)   You have not failed an assessment task in the course due to academic misconduct

10.3   Assessment: Submission penalties

Late submission of assessment tasks will be penalised at the following maximum rate:

- 5% (of the assessment task's identified value) per day for the first two days from the date identified as the due date for the assessment task.
- 10% (of the assessment task's identified value) for the third day
- 20% (of the assessment task's identified value) for the fourth day and subsequent days up to and including seven days from the date identified as the due date for the assessment task.
- A result of zero is awarded for an assessment task submitted after seven days from the date identified as the due date for the assessment task.

Weekdays and weekends are included in the calculation of days late.
To request an extension, you must contact your Course Coordinator and supply the required documentation to negotiate an outcome.

10.4 Study help

In the first instance, you should contact your tutor, then the Course Coordinator. Additional assistance is provided to all students through Academic Skills Advisers. To book an appointment or find a drop-in session go to Student Hub.

Contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au

10.5 Wellbeing Services

Student Wellbeing Support Staff are available to assist on a wide range of personal, academic, social and psychological matters to foster positive mental health and wellbeing for your success. Student Wellbeing is comprised of professionally qualified staff in counselling, health and disability Services.

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, mental health issue, learning disorder, injury or illness, or you are a primary carer for someone with a disability, AccessAbility Services can provide assistance, advocacy and reasonable academic adjustments.

To book an appointment with either service go to Student Hub, email studentwellbeing@usc.edu.au or accessability@usc.edu.au or call 07 5430 1226

10.6 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
- Administration of Central Examinations
- Deferred Examinations
- Student Academic Misconduct
- Students with a Disability

Visit the USC website:
http://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching

10.7 General Enquiries

In person:
- **USC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **USC Moreton Bay** – Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **USC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **USC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **USC Fraser Coast -** Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay

- **USC Caboolture -** Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Appendix 1   Course content

Week # / Module #	What key concepts/content will I learn?	Directed Study Activities: teaching components
1	Introduction to systems analysis and design	Please refer to Section 7 for details.
2	Analysing the business case	Please refer to Section 7 for details.
3	Managing systems projects	Please refer to Section 7 for details.
4	Requirements engineering	Please refer to Section 7 for details.
5	Data and process modelling	Please refer to Section 7 for details.
6	Object modelling	Please refer to Section 7 for details.
7	Development strategies	Please refer to Section 7 for details.
8	User interface design	Please refer to Section 7 for details.
9	Data design	Please refer to Section 7 for details.
10	System architecture	Please refer to Section 7 for details.
11	Managing system implementation	Please refer to Section 7 for details.
12	System support and security	Please refer to Section 7 for details.
13	Revision	Self-directed study

Please note that the course activities may be subject to variation.

Mid Semester Break:
28th September 2020-4th October 2020 (Between Week 10 and Week 11)

Public Holidays
Queen's Birthday - Monday 5th Oct 2020 (Week 11)