COIT11226 *Systems Analysis*
Term 3 - 2019

Profile information current as at 19/05/2022 11:10 pm

General Information

Overview
In this unit, you will develop skills in the planning, selection, and analysis phases of the systems development lifecycle (SDLC). Topics include feasibility studies, fact-finding techniques, system modelling, project planning, and user requirements.

Details
Career Level: *Undergraduate*
Unit Level: *Level 1*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites
There are no requisites for this unit.
Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the Assessment Policy and Procedure (Higher Education Coursework).

Offerings For Term 3 - 2019

- Brisbane
- Melbourne
- Online
- Sydney

Attendance Requirements
All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website
This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

Regional Campuses
Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses
Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Written Assessment**
Weighting: 20%
2. **Written Assessment**
Weighting: 40%
3. **Examination**
Weighting: 40%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Policy for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the CQUniversity Policy site.
You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the CQUniversity Policy site.

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Have Your Say survey, direct student feedback, and staff discussion

Feedback

Part A in both the two assignments required students to complete the related online quizzes as well as to participate and complete all related tutorial tasks. Students felt a larger workload from the online quizzes in this unit and requested for the online quizzes to be removed.

Recommendation

Online quizzes will be removed in both assessments. Online quizzes will remain on the unit Moodle site for student practice to help the students improve performance.

Feedback from Have Your Say survey

Feedback

Task requirements in the two assessments need clarity.

Recommendation

Arrange two reviewers to check through both the two assessments to improve clarity.

Unit Learning Outcomes

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

1. Describe, discuss and apply fact-finding, feasibility study, project planning, and user requirements techniques
2. Model the existing system/environment using appropriate techniques
3. Document the analysis phase of the systems development lifecycle by preparing analysis and user requirements reports.

Australian Computer Society (ACS) recognises the Skills Framework for the Information Age (SFIA). SFIA is in use in over 100 countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles.
ACS members can use the tool MySFIA to build a skills profile at
https://www.acs.org.au/professionalrecognition/mysfia-b2c.html
This unit contributes to the following workplace skills as defined by SFIA. The SFIA code is included:

- Information Analysis (INAN)
- Business Analysis (BUAN)
- Data Analysis (DTAN)
- Systems Design (DESN)

Alignment of Learning Outcomes, Assessment and Graduate Attributes

– N/A Level ◦ Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Written Assessment - 20%	•		•

Assessment Tasks	Learning Outcomes		
	1	2	3
2 - Written Assessment - 40%		•	•
3 - Examination - 40%	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
1 - Communication	•	•	•
2 - Problem Solving	•	•	•
3 - Critical Thinking	•	•	•
4 - Information Literacy	•	•	•
5 - Team Work			
6 - Information Technology Competence	•	•	•
7 - Cross Cultural Competence			
8 - Ethical practice	•		•
9 - Social Innovation	•		
10 - Aboriginal and Torres Strait Islander Cultures			

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 20%	•		•	•				•	•	
2 - Written Assessment - 40%	•	•	•			•		•		
3 - Examination - 40%	•	•	•					•	•	

Textbooks and Resources

Textbooks

COIT11226

Prescribed

Systems Analysis and Design in a Changing World
7th edition (2016)
Authors: John Satzinger, Robert Jackson, Stephen Burd
Cengage Learning
ISBN: 978-1-305-11720-4
Binding: Paperback

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- MS Office or equivalent software
- MS Project
- MS Visio
- For CQUniversity Student Emails and Moodle Forums, all students must always check university emails and read all types of forum messages

Referencing Style

All submissions for this unit must use the referencing styles below:

- Harvard (author-date)
- American Psychological Association 6th Edition (APA 6th edition)

For further information, see the Assessment Tasks.

Teaching Contacts

Pak Poon Unit Coordinator
p.poon@cqu.edu.au

Schedule

Week 1 - 11 Nov 2019

Module/Topic	Chapter	Events and Submissions/Topic
An Overview of Systems Analysis and Design	Chapter 1 (Prescribed textbook)	

Week 2 - 18 Nov 2019

Module/Topic	Chapter	Events and Submissions/Topic
Approaches to Systems Development	Chapter 10 (Prescribed textbook)	

Week 3 - 25 Nov 2019

Module/Topic	Chapter	Events and Submissions/Topic
The Role of the Systems Analyst	Online Chapter A (Prescribed textbook)	

Week 4 - 02 Dec 2019

Module/Topic	Chapter	Events and Submissions/Topic
Project Planning and Project Management	Chapter 11 (Prescribed textbook)	

Vacation Week - 09 Dec 2019

Module/Topic	Chapter	Events and Submissions/Topic

Week 5 - 16 Dec 2019

Module/Topic	Chapter	Events and Submissions/Topic
Project Management Techniques	Online Chapter C (Prescribed textbook)	

Week 6 - 23 Dec 2019

Module/Topic	Chapter	Events and Submissions/Topic
Investigating Systems Requirements	Chapter 2 (Prescribed textbook)	**Systems Development and Planning** Due: Week 6 Monday (23 Dec 2019) 9:00 am AEST

Week 7 - 06 Jan 2020

Module/Topic	Chapter	Events and Submissions/Topic
Identifying User Stories and Use Cases	Chapter 3 (Prescribed textbook)	

Week 8 - 13 Jan 2020

Module/Topic	Chapter	Events and Submissions/Topic
Domain Modeling	Chapter 4 (Prescribed textbook)	

Week 9 - 20 Jan 2020

Module/Topic	Chapter	Events and Submissions/Topic
Use Case Modeling	Chapter 5 (Prescribed textbook)	

Week 10 - 27 Jan 2020

Module/Topic	Chapter	Events and Submissions/Topic
Designing the User Interface	Chapter 8 (Prescribed textbook)	**Systems Analysis: Techniques and Models** Due: Week 10 Wednesday (29 Jan 2020) 9:00 am AEST

Week 11 - 03 Feb 2020

Module/Topic	Chapter	Events and Submissions/Topic
Deploying the New System	Chapter 14 (Prescribed textbook)	

Week 12 - 10 Feb 2020

Module/Topic	Chapter	Events and Submissions/Topic
Revision	All previously covered chapters (Prescribed textbook)	

Exam Week - 17 Feb 2020

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Dr. Pak Poon (Unit Coordinator)
Office: Room 6.15, Level 6, School of Engineering & Technology, 120 Spencer Street, Melbourne VIC 3000 (Melbourne Campus)
Phone: (03) 9616 0693

Assessment Tasks

1 Systems Development and Planning

Assessment Type
Written Assessment

Task Description
Imagine you have recently commenced a systems development project in the role of systems analyst. You will be provided with a Project Case Study. You are to identify critical elements, undertake analysis tasks and develop a report. Your report will document aspects such as:

- The rationale behind your selected systems development methodology;
- Your project plan including a scheduling chart; and
- A cost-benefit analysis.

You will be required to use software such as Microsoft Excel and Microsoft Project.
See the unit website for more details, **including the case study.**

Assessment Due Date
Week 6 Monday (23 Dec 2019) 9:00 am AEST
Late submissions are subject to the university late submission penalty policies

Return Date to Students
Week 8 Monday (13 Jan 2020)

Weighting
20%

Assessment Criteria
This assessment consists of multiple questions. Each question will be marked separately based on the following:

- **Correctness:** The answer should be technically correct. Justifications should explain the advantages and disadvantages.
- **Clarity:** Explanations, formatting and diagrams should be clear, consistent and relevant.

The assessment criteria includes requirements regarding document layout, format, file types, and referencing.
The assessment marking criteria are available on the unit website.

Referencing Style

- Harvard (author-date)
- American Psychological Association 6th Edition (APA 6th edition)

Submission
Online

Submission Instructions
This assignment will be submitted online through unit website.

Learning Outcomes Assessed

- Describe, discuss and apply fact-finding, feasibility study, project planning, and user requirements techniques
- Document the analysis phase of the systems development lifecycle by preparing analysis and user requirements reports.

Graduate Attributes

- Communication
- Critical Thinking
- Information Literacy
- Ethical practice
- Social Innovation

2 Systems Analysis: Techniques and Models

Assessment Type
Written Assessment

Task Description
Assessment 2 follows on from Assessment 1 and usually uses the same project case study. Assessment 2 requires you to apply **techniques** and **models** to complete systems analysis tasks. You will select, justify and use information-gathering techniques to identify, analyse and specify requirements of an information system. You will then design an information system using models such as use case diagrams, domain class models, activity diagrams and system sequence diagrams.
You will be required to use software such as Microsoft Visio to develop modeling diagrams.

Assessment Due Date
Week 10 Wednesday (29 Jan 2020) 9:00 am AEST
Late submissions are subject to the university late submission penalty policies.

Return Date to Students
Week 12 Wednesday (12 Feb 2020)

Weighting
40%

Assessment Criteria
This assessment consists of multiple questions. Each question will be marked separately based on the following:

- **Correctness:** The answer should be technically correct. Justifications should explain the advantages and disadvantages.
- **Clarity:** Explanations, formatting and diagrams should be clear, consistent and relevant.

The assessment criteria includes requirements regarding document layout, format, file types, and referencing.
The assessment marking criteria are available on the unit website.

Referencing Style

- Harvard (author-date)
- American Psychological Association 6th Edition (APA 6th edition)

Submission
Online

Submission Instructions
This assignment will be submitted online through the unit website.

Learning Outcomes Assessed

- Model the existing system/environment using appropriate techniques
- Document the analysis phase of the systems development lifecycle by preparing analysis and user requirements reports.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence
- Ethical practice

Examination

Outline
Complete an invigilated examination

Date
During the examination period, at a CQUniversity examination centre

Weighting
40%

Length
180 minutes

Minimum mark or grade
You must obtain an exam mark of at least 20% to pass this unit.

Details
Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).
Calculator - non-programmable, no text retrieval, silent only

Closed Book

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the **Student Academic Integrity Policy and Procedure**. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?
A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?
A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?
For academic advice and guidance, the Academic Learning Centre (ALC) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?

Be Honest
If your assessment task is done by someone else, it would be dishonest of you to claim it as your own

Seek Help
If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)

Produce Original Work
Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem