



COIT11226 Systems Analysis

Term 3 - 2020

Profile information current as at 02/10/2022 02:32 pm

All details in this unit profile for COIT11226 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

In this unit, you will explore problems that require technological solutions as systems analysis involves determining what a system needs to accomplish. This unit covers concepts such as systems feasibility, user requirements elicitation, and systems modelling. You will learn how to analyse systems requirements, select and plan how to take the system through all stages of the system development life cycle.

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 - 2020

- 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. **Online Quiz(zes)**

Weighting: 10%

2. **Written Assessment**

Weighting: 20%

3. **Written Assessment**

Weighting: 30%

4. **Project (applied)**

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 Staff

Feedback

Quizzes as part of the assessments are helpful in student learning, yet scoring high marks in quizzes requires more effort.

Recommendation

Review the workloads required and assessment weights of the quizzes.

Feedback from Staff

Feedback

Week 4 and 5 topics (cost-benefit analysis and economics of Project management) do not align with any of the ULOs. These topics are covered in depth in COIT12208.

Recommendation

Revise weekly contents to remove redundant topics (covered in other units) and to ensure the contents are aligned with the unit's learning outcomes.

Unit Learning Outcomes

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

1. Explain systems analysis concepts, terminologies, system analysis tasks, models, tools, techniques, and methodologies
2. Select and plan appropriate models, tools, techniques, and methodologies in the systems analysis phase of a systems development project
3. Apply information gathering techniques to derive system functionalities
4. Construct modelling diagrams to depict system functionalities for users' requirements.

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 SFIA7 code is included:

- Business Analysis (BUAN)
- Requirements Definition and Management (REQM)
- Business Modelling (BSMO)
- Data Modelling and Design (DTAN)

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
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 - Online Quiz(zes) - 10%	•	•		•		•				
2 - Written Assessment - 20%	•	•	•	•		•		•		
3 - Written Assessment - 30%	•	•	•			•				
4 - Project (applied) - 40%	•	•	•					•		

Textbooks and Resources

Textbooks

COIT11226

Prescribed

Systems Analysis and Design in a Changing World

Edition: 7th (2016)

Authors: John Satzinger, Robert Jackson and Stephen Burd

Engage

Australia

ISBN: 9781305117204

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

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Pak Poon Unit Coordinator

p.poon@cqu.edu.au

Schedule

Week 1 - 09 Nov 2020

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

Week 2 - 16 Nov 2020

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

Week 3 - 23 Nov 2020

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

Week 4 - 30 Nov 2020

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

Vacation Week - 07 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Week 5 - 14 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Project Management Techniques	Online Chapter C (Prescribed textbook)	
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Week 6 - 21 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
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		Individual Assignment 1: Systems Development & Planning
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Investigating Systems Requirements	Chapter 2 (Prescribed textbook)	Individual Assignment 1: Systems Development and Planning Due: Week 6 Wednesday (23 Dec 2020) 11:00 am AEST
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Vacation Week - 28 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Week 7 - 04 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Identifying User Stories and Use Cases	Chapter 3 (Prescribed textbook)	
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Week 8 - 11 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Domain Modeling	Chapter 4 (Prescribed textbook)	
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Week 9 - 18 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Use Case Modeling	Chapter 5 (Prescribed textbook)	
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Week 10 - 25 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
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		Individual Assignment 2: Systems Analysis and Modeling
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Designing the User Interface	Chapter 8 (Prescribed textbook)	Individual Assignment 2: Systems Analysis and Modeling Due: Week 10 Wednesday (27 Jan 2021) 11:00 am AEST
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Week 11 - 01 Feb 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Deploying the New System	Chapter 14 (Prescribed textbook)	
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Week 12 - 08 Feb 2021

Module/Topic	Chapter	Events and Submissions/Topic
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		Individual Project
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Revision	All previously covered chapters (Prescribed textbook)	Individual Assignment 3 Due: Week 12 Friday (12 Feb 2021) 11:00 am AEST
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Exam Week - 15 Feb 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Term Specific Information

Associate Professor Pak Poon (Unit Coordinator)

Office: Room 6.15, Level 6, School of Engineering and Technology, 120 Spencer Street, Melbourne VIC 3000 (Melbourne Campus)

Email: p.poon@cqu.edu.au

Phone: (03) 9616 0693

Assessment Tasks

1 Online Quiz(zes)

Assessment Type

Online Quiz(zes)

Task Description

There will be four quizzes to assess your understanding of the unit materials. The quizzes will be held during the tutorial sessions (or other designated times) in Week 4, 7, 9 and 11.

Number of Quizzes

Frequency of Quizzes

Assessment Due Date

Late submissions are not possible for online quizzes. Supplementary quizzes will only be arranged under very exceptional circumstances (e.g., illness supported by a medical certificate).

Return Date to Students

Within 2 weeks from the quiz date.

Weighting

10%

Assessment Criteria

This assessment consists of multiple questions. Each question will be marked according to its correctness.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Explain systems analysis concepts, terminologies, system analysis tasks, models, tools, techniques, and methodologies
- Select and plan appropriate models, tools, techniques, and methodologies in the systems analysis phase of a systems development project

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence

2 Individual Assignment 1: Systems Development and Planning

Assessment Type

Written Assessment

Task Description

Imagine you have recently commenced a systems development project in the role of a systems analyst. You will be provided with a Project Case Study. You are required to identify critical elements of the project, undertake analysis tasks and prepare 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.

Assessment Due Date

Week 6 Wednesday (23 Dec 2020) 11:00 am AEST

Late submissions are subject to the university's late submission penalty policies

Return Date to Students

Week 8 Friday (15 Jan 2021)

Weighting

20%

Assessment Criteria

The assessment criteria will cover the contents and the presentation/format of the submission. In addition, all the different parts of the assessment should be written in a professional and coherent manner. A detailed marking template will be available along with the assignment details on the Moodle unit website.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

This assignment will be submitted online through the unit website

Learning Outcomes Assessed

- Select and plan appropriate models, tools, techniques, and methodologies in the systems analysis phase of a systems development project
- Apply information gathering techniques to derive system functionalities

Graduate Attributes

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

3 Individual Assignment 2: Systems Analysis and Modeling

Assessment Type

Written Assessment

Task Description

This assignment follows on the Assignment 1 and uses the same Project Case Study. Assignment 2 requires you to apply the relevant analysis and modeling techniques. 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 diagram, domain model class diagram, activity diagram and system sequence diagram. You will be required to use software such as Microsoft Visio to develop the required modeling diagrams.

Assessment Due Date

Week 10 Wednesday (27 Jan 2021) 11:00 am AEST

Late submissions are subject to the university's late submission penalty policies.

Return Date to Students

Week 12 Wednesday (10 Feb 2021)

Weighting

30%

Assessment Criteria

The assessment criteria will cover the contents and the presentation/format of the submission. In addition, all the different parts of the assessment should be written in a professional and coherent manner. A detailed marking template will be available along with the assignment details on the Moodle unit website.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

This assignment will be submitted online through the unit website.

Learning Outcomes Assessed

- Apply information gathering techniques to derive system functionalities
- Construct modelling diagrams to depict system functionalities for users' requirements.

Graduate Attributes

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

4 Individual Assignment 3

Assessment Type

Project (applied)

Task Description

This individual project follows Assignments 1 and 2. It focuses on system implementation, testing, training, deployment and other related issues.

Assessment Due Date

Week 12 Friday (12 Feb 2021) 11:00 am AEST

Late submission are subject to the university's late submission penalty policies.

Return Date to Students

Expected to return to students no later than 2 weeks after submission due date.

Weighting

40%

Assessment Criteria

The assessment criteria will cover the contents and the presentation/format of the submission. In addition, all the different parts of the assessment should be written in a professional and coherent manner. A detailed marking template will be available along with the assignment details on the Moodle unit website.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

This submission will be submitted online through the unit website.

Learning Outcomes Assessed

- Explain systems analysis concepts, terminologies, system analysis tasks, models, tools, techniques, and methodologies
- Construct modelling diagrams to depict system functionalities for users' requirements.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Ethical practice

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