



COIT11226 Systems Analysis

Term 3 - 2023

Profile information current as at 07/05/2024 10:02 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 - 2023

- 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 External review

Feedback

Students need to learn agile system concepts.

Recommendation

An assessment component can be introduced/modified to include the agile system methodology.

Feedback from Teaching team suggestion

Feedback

Presentation style assessments.

Recommendation

To include presentation component in an assignment.

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

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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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, Stephen Burd

Cengage

Australia

ISBN: 978-1-305-11720-4

Binding: Paperback

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- MS Office
- 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

Gopi Akella Unit Coordinator

g.akella@cqu.edu.au

Schedule

Week 1 - 06 Nov 2023

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

Week 2 - 13 Nov 2023

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

Week 3 - 20 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Business Analysis Techniques; Role of Systems Analyst	Online Chapter A (Prescribed textbook)	

Week 4 - 27 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Problem Identification; Project Management

Chapter 11 & Online Chapter C (Prescribed textbook)

Online Quiz1 - 5%

Online Quizzes Due: Week 4 Monday (27 Nov 2023) 11:59 pm AEST

Vacation Week - 04 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Week 5 - 11 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Identifying (or Determining) Requirements	Chapter 2 (Prescribed textbook)	
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Week 6 - 18 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
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		<i>Systems Development Planning Assessment (20%)</i>
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Identifying User Stories & Use Cases	Chapter 3 (Prescribed textbook)	
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Individual Assignment 1: Systems Development Planning Due: Week 6 Friday (22 Dec 2023) 11:59 pm AEST

Vacation Week - 25 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Week 7 - 01 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Process Design: Use Case Modeling	Chapter 5 (Prescribed textbook)	
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Week 8 - 08 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Designing the User Interface	Chapter 8 (Prescribed textbook)	
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Week 9 - 15 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Software Quality & Testing	Not applicable	
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Online Quiz2 - 5%

Week 10 - 22 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
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		<i>Systems Analysis and Modelling Assessment (30%)</i>
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Defining the System Architecture	Chapter 7 (Prescribed textbook)	
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Group Assignment 2: Systems Analysis and Modeling Due: Week 10 Friday (26 Jan 2024) 11:59 pm AEST

Week 11 - 29 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Deployment of the New System	Chapter 14 (Prescribed textbook)	
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Week 12 - 05 Feb 2024

Module/Topic	Chapter	Events and Submissions/Topic
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		<i>Software Testing and Deployment Assessment (40%)</i>
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Complete the unit evaluation survey

Revision	All previously covered chapters (prescribed textbook)	
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Individual Assignment 3: Software Testing and Deployment Due: Week 12 Friday (9 Feb 2024) 11:59 pm AEST

Term Specific Information

Unit Coordinator:

Gopi Akella

CQUniversity Melbourne, 120 Spencer Street, Melbourne 3000

E: g.akella@cqu.edu.au

Assessment Tasks

1 Online Quizzes

Assessment Type

Online Quiz(zes)

Task Description

There will be **two** quizzes (Quiz1 and Quiz2) to assess your understanding of the unit materials.

Quiz1 will be available on Week4-Friday from 9:00 AM to week5-Monday 11:59 PM.

Quiz2 will be available on Week9-Friday from 9:00 AM to week10-Monday 11:59 PM.

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

Week 4 Monday (27 Nov 2023) 11:59 pm AEST

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

Return Date to Students

Week 6 Monday (18 Dec 2023)

Within 2 weeks from the quiz date

Weighting

10%

Assessment Criteria

This assessment will cover the following unit learning outcome:

1-Explain systems analysis concepts, terminologies, system analysis tasks, models, tools, techniques, and methodologies

The assessment consists of multiple-choice questions. Each question will be marked according to its correctness.

Referencing Style

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

Submission

Online

Submission Instructions

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 Planning

Assessment Type

Written Assessment

Task Description

This is an individual assignment. You will be provided with a business project case (this case will also be used in Assignments 3). As a systems analyst, you are required to identify critical elements of the project, undertake analysis tasks and prepare a report. Your report will document aspects such as:

- A cost-benefit analysis for a project
- The rationale behind your selected systems development methodology
- A comparison between predictive and adaptive systems development methodologies relevant to the given business project case

Further details will be available in the Assignment 1 specification on the unit website.

Assessment Due Date

Week 6 Friday (22 Dec 2023) 11:59 pm AEST

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

Return Date to Students

Week 8 Friday (12 Jan 2024)

Weighting

20%

Assessment Criteria

This assessment will cover the following unit learning outcome:

2-Select and plan appropriate models, tools, techniques, and methodologies in the systems analysis phase of a systems development project

The assessment criteria will cover the contents & the presentation/format of the submission. In addition, all the different parts of the assessment should be written in a professional & coherent manner. A detailed marking template will be made available when this assignment is released on Moodle.

Referencing Style

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

Submission

Online

Submission Instructions

Online submission via Moodle

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 Group Assignment 2: Systems Analysis and Modeling

Assessment Type

Written Assessment

Task Description

This is a group assignment. You need to become a member of a student group that contains a maximum of 5 members

and complete the tasks of this assignment. You (your group) will be using the same case study that you used in assignment 1 and will perform the following:

- select, justify and use information-gathering techniques to identify, analyse and specify the requirements of an information system
- design an information system using techniques such as a use case diagram, activity diagram and system sequence diagram

You will need to use software tools such as MS Visio to develop the required modelling diagrams.

Note: The actual group size will depend on the total number of students enrolled in this unit.

Assessment Due Date

Week 10 Friday (26 Jan 2024) 11:59 pm AEST

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

Return Date to Students

Week 12 Friday (9 Feb 2024)

Weighting

30%

Assessment Criteria

This assessment will cover the following unit learning outcomes:

3-Apply information-gathering techniques to derive system functionalities

4-Construct modelling diagrams to depict system functionalities for users' requirements.

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.

Referencing Style

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

Submission

Online Group

Submission Instructions

Online submission via Moodle

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: Software Testing and Deployment

Assessment Type

Project (applied)

Task Description

This is an individual assignment. In this assignment, you will use the same case study that you used in assignments 1 and 2. You will create a report on the aspects of system implementation, testing, training, deployment and other related issues.

Assessment Due Date

Week 12 Friday (9 Feb 2024) 11:59 pm AEST

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

Return Date to Students

Marks will be released to students on the certification date as this is the final assessment

Weighting

40%

Assessment Criteria

This assessment will cover the following unit learning outcome:

4-Construct modelling diagrams to depict system functionalities for users' requirements.

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 when this assignment is released on Moodle.

Referencing Style

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

Submission

Online

Submission Instructions

Online submission via Moodle

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