



# COIT11226 Systems Analysis

## Term 2 - 2019

Profile information current as at 06/05/2024 09:01 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 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 2 - 2019

- Adelaide
- Brisbane
- Cairns
- Melbourne
- Online
- Rockhampton
- Sydney
- Townsville

#### 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



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
<b>1 - Written Assessment - 20%</b>	•		•

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**

Edition: 7th (2016)

Authors: Satzinger, Jackson & Burd

Cengage

Boston , MA , USA

ISBN: 9781305117204

Binding: Paperback

#### **Additional Textbook Information**

Paper copies are available from the CQUni Bookshop here: <http://bookshop.cqu.edu.au> (search on the Unit code)

eBook copies can be purchased from the publisher's website here:

<https://www.cengagebrain.com.au/shop/isbn/9781305117204?cid=aussearchpage>

[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:**

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Sanjay Jha** Unit Coordinator

[s.jha@cqu.edu.au](mailto:s.jha@cqu.edu.au)

## Schedule

### **Week 1 - 15 Jul 2019**

Module/Topic	Chapter	Events and Submissions/Topic
<b>From Beginning to End: An Overview of Systems Analysis and Design</b>	Chapter 1	

### **Week 2 - 22 Jul 2019**

Module/Topic	Chapter	Events and Submissions/Topic
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Approaches to systems development Chapter 10

### Week 3 - 29 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
The Role of the Systems Analyst	<b>Online Chapter A</b>	

### Week 4 - 05 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
<b>Project Planning and Project Management</b>	Chapter 11	

### Week 5 - 12 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Project Management Techniques	Online Chapter C	

### Vacation Week - 19 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Mid-term Break Week	Catch-up if behind	Refresh and recharge

### Week 6 - 26 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Investigating System Requirements	Chapter 2	<b>System Development and Planning</b> Due: Week 6 Monday (26 Aug 2019) 9:00 am AEST

### Week 7 - 02 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Identifying User Stories and Use Cases	Chapter 3	

### Week 8 - 09 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Domain Modelling	Chapter 4	

### Week 9 - 16 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Use Case Modelling	Chapter 5	

### Week 10 - 23 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Designing the User Interface	Chapter 8	<b>System Analysis: Techniques and Models</b> Due: Week 10 Friday (27 Sept 2019) 11:59 pm AEST

### Week 11 - 30 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Deploying the New System	Chapter 14	

### Week 12 - 07 Oct 2019

Module/Topic	Chapter	Events and Submissions/Topic
Revision	<b>All covered chapters</b>	

### Review/Exam Week - 14 Oct 2019

Module/Topic	Chapter	Events and Submissions/Topic
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### Exam Week - 21 Oct 2019

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

Sanjay Jha: Email: s.jha@cqu.edu.au Sydney Campus.

Please submit questions about the unit through the 'Q&A' discussion forum in Moodle - that way, everyone can benefit from the questions and answers. If you have any individual queries, please email me and I'll try to get back to you within a day or so.

## Assessment Tasks

### 1 System Development and Planning

#### Assessment Type

Written Assessment

#### Task Description

Imagine you have recently commenced a system 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 system 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 (26 Aug 2019) 9:00 am AEST

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

#### Return Date to Students

Within 2 weeks from the due date or within 2 weeks of submission (whichever is the later)

#### Weighting

20%

#### Assessment Criteria

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

1. **Correctness:** the answer should be technically correct, not contain errors; justifications should explain the advantages (or benefits) and disadvantages; and
2. **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 1 marking criteria is available on the unit website.

#### Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

#### 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 System 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 modelling diagrams.

### Assessment Due Date

Week 10 Friday (27 Sept 2019) 11:59 pm AEST

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

### Return Date to Students

Within 2 weeks of the due date or within 2 weeks of submission (whichever is the later)

### Weighting

40%

### Assessment Criteria

This assessment consists of multiple questions, each marked separately based on the followings.

- **Correctness:** the answer should be technically correct, not contain errors; justifications should explain the advantages (or benefits) and disadvantages; and
- **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 2 marking criteria is available on the unit website.

### Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

### 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.

**Exam Conditions**

Closed Book.

**Materials**

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

## 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