COIT20265 *Networks and Information Security Project*
Term 1 - 2018

Profile information current as at 25/04/2024 12:33 am

General Information

Overview

This unit is the capstone for the Networks and Information Security specialisation in the Master of Information Technology course. Students are required to demonstrate the skills that they have developed throughout their studies in this course and apply these skills to an authentic task group project or an industry project. Skills will be demonstrated through the conduct of a group project addressing the production of a research plan, project plan, a quality plan, progress reports and a project report, together with appropriate business analysis and process modelling artefacts such as process improvement models and requirements specifications, and a project report. The project will have a designated customer and students will be required to produce project management artefacts associated with a commercial project. Students will be expected to participate in both regular progress meetings involving relevant stakeholders and in technical meetings. Students are encouraged to include the artefacts produced in the project as part of a work portfolio. Note: If students have undertaken COIT20234 Advanced Network Security Project then this unit cannot be taken.

Details

Career Level: *Postgraduate*
Unit Level: *Level 9*
Credit Points: *12*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

Prerequisites COIT20262 Advanced Network Security COIT20263 Information Security Management COIT20264 Network Design PPMP20007 Project Management Concepts
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 1 - 2018

- Brisbane
- Distance
- Melbourne
- Rockhampton
- 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 12-credit Postgraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 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. **Presentation and Written Assessment**
Weighting: 60%
2. **Portfolio**
Weighting: 20%
3. **Group Work**
Weighting: 20%

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 Unit evaluation

Feedback

Students found the project presentations challenging but at the same time extremely valuable to improve their confidence and communication skills.

Recommendation

To provide additional support to the students during their preparation of the project presentations. To make the project presentations a big event and invite academics and the general public to attend.

Unit Learning Outcomes

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

1. Apply the concepts taught in network security specialisation units informed by research and professional best-practice.
2. Assess systems for weaknesses and select and implement appropriate counter measures and controls.
3. Evaluate security protections and assess their level of compliance and effectiveness.
4. Identify “client” or customer requirements and propose solutions.
5. Organise, manage and prioritise tasks in order to address complex real world problems.
6. Select and apply task-appropriate project management and solution development methodologies.
7. Demonstrate productive participation and contribution to a project team or work environment.

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:

1. Project Management (PRMG)
2. IT Management (ITMG)
3. Information Security (SCTY)
4. Security Administration (SCAD)
5. IT Governance (GOVN)
6. Technical specialism (TECH)
7. IT Operations (ITOP)
8. Systems Installation/Decommissioning (HSIN)
9. Network Support (NTAS)
10. Network Planning (NTPL)
11. Network Design (NTDS)
12. System 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	4	5	6	7
1 - Presentation and Written Assessment - 60%	•	•	•	•	•	•	•
2 - Portfolio - 20%	•	•	•	•	•	•	•
3 - Group Work - 20%	•	•	•	•	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Knowledge	○	○	○	○	○	○	○
2 - Communication	○	○	○	○	○	○	○
3 - Cognitive, technical and creative skills	○	○	○	○	○	○	○
4 - Research	○	○	○	○	○	○	○
5 - Self-management	○	○	○	○	○	○	○
6 - Ethical and Professional Responsibility	○	○	○	○	○	○	○
7 - Leadership	○	○	○	○	○	○	○
8 - 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
1 - Presentation and Written Assessment - 60%	○	○	○	○	○	○	○	
2 - Portfolio - 20%	○	○	○	○	○	○	○	
3 - Group Work - 20%	○	○	○	○	○	○	○	

Textbooks and Resources

Textbooks

There are no required textbooks.

Additional Textbook Information
No textbooks required.

IT Resources

You will need access to the following IT resources:

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

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

Edilson Arenas Unit Coordinator
e.arenas@cqu.edu.au

Schedule

Week 1 - 05 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to the Unit by mentor Group formation	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Week 2 - 12 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor Project selection	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Week 3 - 19 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Week 4 - 26 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	1. Make entries in the Portfolio covering activities performed in this week 2. Submit Project Plan 3. Submit and Present Progress Report-1

Week 5 - 02 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Vacation Week - 09 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 16 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	1. Make entries in the Portfolio covering activities performed in this week 2. Submit and Present Progress Report-2

Week 7 - 23 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Week 8 - 30 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	1. Make entries in the Portfolio covering activities performed in this week 2. Submit and Present Progress Report-3

Week 9 - 07 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Week 10 - 14 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	1. Make entries in the Portfolio covering activities performed in this week 2. Submit and Present Progress Report-4

Week 11 - 21 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	Make entries in the Portfolio covering activities performed in this week

Week 12 - 28 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Weekly meeting with project mentor	No prescribed textbooks for this unit	1. Submit Portfolio covering activities performed during the entire term 2. Submit Final Report 3. Project Presentation **Project Report** Due: Week 12 Friday (1 June 2018) 12:00 pm AEST **Individual Activity Journal - Electronic Portfolio** Due: Week 12 Friday (1 June 2018) 11:45 pm AEST

Review/Exam Week - 04 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 11 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

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Assessment Tasks

1 Project Report

Assessment Type
Presentation and Written Assessment

Task Description
This is the major piece of assessment for this unit where you are required to provide a technical report on your network security project. For this assessment, you are required to work on a project as a group with up to four team members. Please contact the unit coordinator if you have a genuine problem and are unable to participate in a group.

Assessment Due Date
Week 12 Friday (1 June 2018) 12:00 pm AEST

Return Date to Students

This major piece of assessment will be returned to the students on certification day

Weighting
60%

Assessment Criteria
The project report and technical documentation will be assessed upon the quality of the content. This includes the presentation layout and the depth and breadth of project recommendations adhering to the implementation of a secured computer network. This assessment comprises the following tasks:
1. Produce a detailed security plan for a chosen organisation in order to meet its network security threats and challenges.
2. Identify key security threats or challenges and implement technology to mitigate or address them. This is a practical activity that requires demonstration of the implementation of your group's network security plan. Your group must identify key threats and challenges, and implement technology to mitigate or address them. The technology has to address key challenges to the organisation's network environment. You should pick an area of network, infrastructure or security that you have already applied in your studies, but you would like to explore in-depth and implement. Your group needs to show how that was implemented and how the tests were carried. Your group is also required to submit the technical documentation including a test plan, test results and any network security policies and/or procedures that result from your implementation test.
Note: Please refer to the unit website in Moodle for further information and detailed marking criteria.

Referencing Style

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

Submission
Online Group

Learning Outcomes Assessed

- Apply the concepts taught in network security specialisation units informed by research and professional best-practice.

- Assess systems for weaknesses and select and implement appropriate counter measures and controls.
- Evaluate security protections and assess their level of compliance and effectiveness.
- Identify “client” or customer requirements and propose solutions.
- Organise, manage and prioritise tasks in order to address complex real world problems.
- Select and apply task-appropriate project management and solution development methodologies.
- Demonstrate productive participation and contribution to a project team or work environment.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility
- Leadership

2 Individual Activity Journal - Electronic Portfolio

Assessment Type
Portfolio

Task Description
This is an individual assessment. An e-portfolio is a learning tool that enables students to accumulate evidence of learning achievement. In this unit, you will use Mahara as the learning tool. Please refer to the Moodle unit website for the assessment criteria and detailed instructions on how to create your Mahara portfolio.

Assessment Due Date
Week 12 Friday (1 June 2018) 11:45 pm AEST

Return Date to Students
Exam Week Friday (15 June 2018)

Weighting
20%

Assessment Criteria
Make entries in your portfolio on each occasion you undertake work on the project for personal reflections and lessons learned. **You are expected to make a portfolio entry at least once a week**. Essentially, use the portfolio to capture things like:

- Activities that you performed during the week
- Your contributions to the overall project requirements
- Challenges faced
- Reflections and experiences in conducting the project
- Bibliography such as technical journals, websites, trade magazines, etc. you used to support your work

You are required to submit your portfolio in week 12 for assessment, however, it is essential to maintain this document throughout the term as it is the only component of the unit assessed individually. Failure to submit a portfolio will disadvantage your overall marks.
The Moodle site provides further information and specific marking criteria.

Referencing Style

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

Submission
Online

Submission Instructions
Please refer tot he Moodle site for further details.

Learning Outcomes Assessed

- Apply the concepts taught in network security specialisation units informed by research and professional best-practice.
- Assess systems for weaknesses and select and implement appropriate counter measures and controls.
- Evaluate security protections and assess their level of compliance and effectiveness.
- Identify “client” or customer requirements and propose solutions.

- Organise, manage and prioritise tasks in order to address complex real world problems.
- Select and apply task-appropriate project management and solution development methodologies.
- Demonstrate productive participation and contribution to a project team or work environment.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility
- Leadership

3 Project Plan, Progress Reports, and Presentation

Assessment Type
Group Work

Task Description
This assessment comprises three parts: project plan, progress reports, and final presentation of your project. For this assessment, you are required to work as a group.

Assessment Due Date

See details in the Moodle Site

Return Date to Students

See details in the Moodle site.

Weighting
20%

Assessment Criteria
Project Plan (5%)
Presentation (5%)
Progress Reports (10%) :
Further details are provided on the Moodle Site.

Referencing Style

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

Submission
Online Group

Submission Instructions
Refer to the Moodle Site for specific dates

Learning Outcomes Assessed

- Apply the concepts taught in network security specialisation units informed by research and professional best-practice.
- Assess systems for weaknesses and select and implement appropriate counter measures and controls.
- Evaluate security protections and assess their level of compliance and effectiveness.
- Identify “client” or customer requirements and propose solutions.
- Organise, manage and prioritise tasks in order to address complex real world problems.
- Select and apply task-appropriate project management and solution development methodologies.
- Demonstrate productive participation and contribution to a project team or work environment.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility

- Leadership

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