



ENRP20001 Engineering Research Project Planning

Term 1 - 2018

Profile information current as at 14/12/2025 12:43 pm

All details in this unit profile for ENRP20001 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

This unit is specifically designed so that students can apply the processes of research investigation through the analysis of, reflection on and critique of, an area of their professional practice. The unit uses a problem-based learning approach within an authentic workplace learning environment. This ensures students are undertaking an investigation that is relevant to the needs of industry. Students will apply an appropriate research methodology that suits their research problem. At the end of this unit, students will have developed a project plan that they will implement in the follow-on unit Engineering Research Project Implementation.

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

Students must have completed a minimum of 36 credit points and approval of head of course or delegate is required.

Students must have a project topic and academic supervisor before they can be enrolled.

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

- Distance
- Melbourne
- Perth
- Rockhampton

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. **Report**

Weighting: 10%

2. **Literature Review or Systematic Review**

Weighting: 20%

3. **Presentation**

Weighting: 20%

4. **Portfolio**

Weighting: 50%

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

Supervisor gave time when required, unit profile was clearly defined, happy with the unit.

Recommendation

This practice will be maintained.

Feedback from Unit evaluation

Feedback

Difference in expectations between unit supervisor and unit coordinator.

Recommendation

More interaction between supervisor and coordinator will be arranged for maintaining consistent expectation from students.

Feedback from Unit evaluation

Feedback

Regular class for this subject and on-going monitoring needed.

Recommendation

More frequent lectures and workshops will be taken for on-going monitoring of progress.

Feedback from Unit evaluation

Feedback

Information should be given in the early weeks.

Recommendation

The delay of providing information was due to delay in an enrolment issue and process. Early classes/workshops will be provided in the coming years.

Unit Learning Outcomes

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

1. Identify a suitable problem related to the study discipline
2. Develop a research question including identifying key words
3. Conduct an indepth review of related literature
4. Select an appropriate research methodology to investigate the problem
5. Regularly communicate professionally with all stakeholders in formal and informal reports
6. Professionally present the project plan in a seminar and defend the methodology adopted.

n/a

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Report - 10%	•	•				
2 - Literature Review or Systematic Review - 20%			•			
3 - Presentation - 20%				•		•
4 - Portfolio - 50%	•	•	•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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 - Report - 10%	○	○	○	○				
2 - Literature Review or Systematic Review - 20%	○	○		○				
3 - Presentation - 20%	○	○	○	○		○		
4 - Portfolio - 50%	○	○	○	○		○		

Textbooks and Resources

Textbooks

There are no required textbooks.

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:

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

For further information, see the Assessment Tasks.

Teaching Contacts

Edward Palmer Unit Coordinator

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Schedule

Week 1 - 05 Mar 2018

Module/Topic

Chapter

Events and Submissions/Topic

Overview of unit, enrollment requirements, assessment, expectation of continual documented contact with supervisor. Choosing a project and supervisor.

Week 2 - 12 Mar 2018

Module/Topic

Chapter

Events and Submissions/Topic

Scoping the project.

Week 3 - 19 Mar 2018

Module/Topic

Chapter

Events and Submissions/Topic

Finalising the scope documents, review of progress in choosing topic and supervisor.

Week 4 - 26 Mar 2018

Module/Topic

Chapter

Events and Submissions/Topic

Introduction to the literature review: purpose, sources of information, referencing, reviewing a document.

Draft Scope Due: Week 4 Thursday (29 Mar 2018) 11:45 pm AEST

Week 5 - 02 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Review of engineering databases: types of documents, peer reviewed conferences, journals, books, standards. Assessing the quality of a reference. Keeping it relevant., Review of progress and draft literature reviews		

Vacation Week - 09 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 16 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Writing the methodology section: What to include, connection with the scope and literature review.		Draft literature review due Draft Literature Review Due: Week 6 Friday (20 Apr 2018) 11:45 pm AEST

Week 7 - 23 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Review of progress, review of draft methodologies, presentation techniques, what makes an effective presentation		

Week 8 - 30 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Review of progress, practice methodology presentations		

Week 9 - 07 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Presentation of methodology		Presentation of Draft Methodology Due: Week 9 Wednesday (9 May 2018) 2:00 pm AEST

Week 10 - 14 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
The portfolio, what is expected, the format. Risk assessments, The Gantt chart.		

Week 11 - 21 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Review of draft portfolios, review of progress		

Week 12 - 28 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Planning portfolio due		Planning Portfolio or Report Due: Week 12 Friday (1 June 2018) 11:45 pm AEST

Review/Exam Week - 04 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Exam Week - 11 Jun 2018

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

You need to have found a supervisor and project **BEFORE** enrolment is approved. A list of projects will be circulated and presented in week 1.

Assessment Tasks

1 Draft Scope

Assessment Type

Report

Task Description

This is a draft of the scope of your project. This needs to introduce the topic and define the area you will work in, the stakeholders, and the deliverables. Lectures will be given on scoping and it is crucial that you attend.

Assessment Due Date

Week 4 Thursday (29 Mar 2018) 11:45 pm AEST

Return Date to Students

Week 6 Friday (20 Apr 2018)

Weighting

10%

Minimum mark or grade

50%

Assessment Criteria

1. Clarity of the scope, identification of stakeholders, inclusions and exclusions, introduction to topic and importance.
2. Spelling, grammar, professional formatting.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Identify a suitable problem related to the study discipline
- Develop a research question including identifying key words

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research

2 Draft Literature Review

Assessment Type

Literature Review or Systematic Review

Task Description

This is a draft of the literature review of the planning portfolio. It needs to reference relevant sources of high quality and should drive the project methodology.

Assessment Due Date

Week 6 Friday (20 Apr 2018) 11:45 pm AEST

Return Date to Students

Week 8 Friday (4 May 2018)

Weighting

20%

Assessment Criteria

1. quality of sources
2. relevance to project
3. synthesis of sources into forming methodology
4. formatting, spelling grammar

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Conduct an indepth review of related literature

Graduate Attributes

- Knowledge
- Communication
- Research

3 Presentation of Draft Methodology

Assessment Type

Presentation

Task Description

Oral presentation of draft methodology to be used in the implementation phase of your project.

Assessment Due Date

Week 9 Wednesday (9 May 2018) 2:00 pm AEST

Exact timing of the presentations will be confirmed during term but it will be in week 9

Return Date to Students

Week 10 Monday (14 May 2018)

Weighting

20%

Assessment Criteria

1. technical correctness of methodology,
2. risk assessment
3. realistic timeline
4. presentation skills - within 10 minutes, clarity of slides, competence in answering questions

Referencing Style

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

Submission

Online

Submission Instructions

Oral presentation. Students must be present at the scheduled time.

Learning Outcomes Assessed

- Select an appropriate research methodology to investigate the problem
- Professionally present the project plan in a seminar and defend the methodology adopted.

Graduate Attributes

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

4 Planning Portfolio or Report

Assessment Type

Portfolio

Task Description

Report giving

1. abstract
2. introduction
3. scope
4. literature review
5. methodology based on literature review
6. Gantt chart
7. risk assessment

Assessment Due Date

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

Return Date to Students

Exam Week Monday (11 June 2018)

Feedback will be given after marking and moderation.

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

1. clarity of the scope, identification of stakeholders, inclusions and exclusions, introduction to topic and importance.
2. quality of sources in final literature review
3. relevance of sources to project
4. synthesis of sources into forming methodology
5. technical correctness of methodology,
6. risk assessment
7. realistic timeline
8. formatting, spelling grammar

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Identify a suitable problem related to the study discipline
- Develop a research question including identifying key words
- Conduct an indepth review of related literature
- Select an appropriate research methodology to investigate the problem
- Regularly communicate professionally with all stakeholders in formal and informal reports

Graduate Attributes

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

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