



# ENEC14016 Traffic and Transportation Engineering

## Term 1 - 2024

Profile information current as at 10/05/2024 05:14 am

All details in this unit profile for ENEC14016 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 project-based learning unit prepares you to describe and explain the fundamental concepts and characteristics of traffic engineering systems. You will be able to develop strategies for managing and controlling traffic, identify safety issues and recommend solutions. You will be able to analyse and design intersections. You will use ethical decision-making processes to design and document pavement requirements. You will apply design codes and manuals to common design problems involving, intersection design and pavement design. You are required to work, learn and communicate effectively in a professional manner, alone and in project teams. You are required to use information literacy skills proficiently to investigate and prepare oral presentations and formal technical reports.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 4*

Credit Points: 12

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.25

### Pre-requisites or Co-requisites

Prerequisites: ENEC12011 Transportation Systems.

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 - 2024

- Bundaberg
- Cairns
- Gladstone
- Mackay
- Online
- 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 Undergraduate 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. **Project (applied)**

Weighting: 30%

#### 2. **Written Assessment**

Weighting: 25%

#### 3. **Project (applied)**

Weighting: 25%

#### 4. **Online Quiz(zes)**

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 Moodle and Email

##### **Feedback**

The unit content was informative and covered theoretical and practical aspects of traffic and transportation.

##### **Recommendation**

Continue to add more insightful and practical materials for Term 1, 2024.

#### Feedback from Moodle and Email

##### **Feedback**

The staff had good technical knowledge, and the lecturer was really helpful through quick and comprehensive responses.

##### **Recommendation**

The same quality of support should be maintained in future offerings.

#### Feedback from Moodle

##### **Feedback**

Feedback given on assignments needs more attention.

##### **Recommendation**

The feedback on assignments should be provided within the timeframe in the next offerings. More detailed feedback on assignments should be given to the students in the next offerings.

## Unit Learning Outcomes

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

1. Analyse traffic flows and describe the effect of key traffic flow parameters and their inter-relationships
2. Apply systematic approaches to conduct capacity analysis and level of service of roadways and intersections
3. Evaluate the pavement sublayer materials properties using appropriate Australian guidelines
4. Design structural road pavements using appropriate Australian guidelines
5. Demonstrate a professional level of communication and teamwork.

**The Learning Outcomes for this unit are linked with the Engineers Australia Stage 1 Competency Standards for Professional Engineers in the areas of 1. Knowledge and Skill Base, 2. Engineering Application Ability and 3. Professional and Personal Attributes at the following levels:**

#### **Introductory**

**3.3 Creative, innovative, and proactive demeanor. (LO: 1N 2N 3N 4N 5N)**

#### **Intermediate**

**1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline. (LO: 1I 2I 3I 4I 5I)**

**1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline. (LO: 1N 2I 3I 4I 5N)**

**1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 1N 2N 3I 4I 5N)**

**1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 1N 2N 3I 4N 5N)**

**1.6 Understanding of the scope, principles, norms, accountabilities, and bounds of sustainable engineering practice in the**

specific discipline. (LO: 1N 2N 3I 4N 5N)

2.2 Fluent application of engineering techniques, tools, and resources. (LO: 1I 2I 3I 4I 5I)

2.3 Application of systematic engineering synthesis and design processes. (LO: 1N 2N 3I 4I 5N)

2.4 Application of systematic approaches to the conduct and management of engineering projects. (LO: 1I 2I 3I 4I 5I)

3.1 Ethical conduct and professional accountability. (LO: 1N 2N 3I 4N 5N)

3.2 Effective oral and written communication in professional and lay domains. (LO: 1I 2I 3I 4I 5I)

3.4 Professional use and management of information. (LO: 1N 2N 3I 4N 5N)

3.5 Orderly management of self, and professional conduct. (LO: 1I 2I 3I 4I 5I)

#### Advanced

1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences underpin the engineering discipline. (LO: 1A 2A 3I 4I 5I)

2.1 Application of established engineering methods to complex engineering problem-solving. (LO: 1I 2I 3I 4A 5I)

3.6 Effective team membership and team leadership. (LO: 1N 2N 3A 4N 5I)

*Note: LO refers to the Learning Outcome number(s) which link to the competency and the levels: N - Introductory, I - Intermediate, and A - Advanced.*

Refer to the Engineering Undergraduate Course Moodle site for further information on Engineers Australia's Stage 1 Competency Standard for Professional Engineers and course-level mapping information <https://moodle.cqu.edu.au/course/view.php?id=1511>

## 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
1 - Project (applied) - 30%			•	•	
2 - Written Assessment - 25%			•		•
3 - Project (applied) - 25%	•	•			
4 - Online Quiz(zes) - 20%	•	•	•	•	

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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					

## Textbooks and Resources

### Textbooks

ENEC14016

#### Supplementary

##### **Traffic and Highway Engineering, Enhanced SI Edition**

Edition: 5

Authors: Nicholas J. Garber & Lester A. Hoel

Cengage Learning US

Stamford, CT 06902, USA

ISBN: 9781337631044

Binding: Paperback

ENEC14016

#### Supplementary

##### **Traffic Engineering**

(2019)

Authors: Roger P. Roess, Elena S. Prassas, William R. McShane

Pearson

ISBN: 9780134599717

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)
- SIDRA
- Pavement Design Software CIRCLY

## Referencing Style

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

For further information, see the Assessment Tasks.

## Teaching Contacts

**Farzaneh Tahmoorian** Unit Coordinator

[f.tahmoorian@cqu.edu.au](mailto:f.tahmoorian@cqu.edu.au)

## Schedule

### **Week 1: Introduction & Design of Flexible Pavement I - 04 Mar 2024**

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Traffic and Transportation Engineering	1. Chapters 2, 5 & 6 of AGPT02-17	
Design of Flexible Pavement I	2. Chapter 19 of Traffic & Highway Engineering (Garber & Hoel)	

### **Week 2: Design of Flexible Pavement II - 11 Mar 2024**

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

Design of Flexible Pavement II	1. Chapter 8 of AGPT02-17 2. Chapters 6 & 7 of AGPT05-19
--------------------------------	---

### Week 3: Design of Rigid Pavement I - 18 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
Design of Rigid Pavement I	1. Chapters 2, 5 & 6 of AGPT02-17 2. Chapter 20 of Traffic & Highway Engineering (Garber & Hoel)	

### Week 4: Design of Rigid Pavement II & Pavement Treatments - 25 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
Design of Rigid Pavement II Pavements Treatment Design	1. Chapter 9 of AGPT02-17 2. Chapters 6 & 8 of AGPT05-19 3. Chapters 10, 11 & 12 of AGPT05-19	

### Week 5: Traffic Flow Characteristics - 01 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
Traffic Flow Characteristics	1. Chapter 6 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapter 5 of Traffic Engineering (Roger et al.) 3. Chapters 2 and 7 of AGTM02-20 4. Commentary 1 & 2 of AGTM02-20	Online Quiz 1 (Open from 05 April 2024, Due by 11:59 pm AEST - 12 April 2024).  <b>Pavement Design</b> Due: Week 5 Friday (5 Apr 2024) 11:59 pm AEST

### Vacation Week - 08 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

### Week 6: Capacity and Level of Service Fundamentals - 15 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
Capacity and Level of Service Fundamentals	1. Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapters 6 & 7 of Traffic Engineering (Roger et al.) 3. Chapters 3 & 4 of AGTM03-20	

### Week 7: Capacity Analysis-Highway and Freeway I - 22 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis-Highway and Freeway I	1. Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapters 6 & 7 of Traffic Engineering (Roger et al.) 3. Chapter 4 of AGTM03-20	

### Week 8: Capacity Analysis-Highway and Freeway II - 29 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis-Highway and Freeway II	1. Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapter 28 of Traffic Engineering (Roger et al.) 3. Chapter 5 of AGTM03-20	

### Week 9: Capacity Analysis- Weaving Segments - 06 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis- Weaving Segments on Freeways	1. Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapters 29 & 30 of Traffic Engineering (Roger et al.) 3. Chapter 5 of AGTM03-20	<b>Practical Assessment</b> Due: Week 9 Friday (10 May 2024) 11:59 pm AEST

### Week 10: Signalised & Unsignalised Intersection Fundamentals - 13 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
Signalised & Unsignalised Intersection Fundamentals	1. Chapter 8 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapter 7 of AGTM03-20 3. Chapter 3 of AGTM06-20	
<b>Week 11: Capacity Analysis- Signalised &amp; Unsignalised Intersection I - 20 May 2024</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis- Signalised & Unsignalised Intersection I	1. Chapter 10 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapter 22 of Traffic Engineering (Roger et al.) 3. Chapter 7 of AGTM03-20 4. Chapters 5 & 6 of AGTM06-20	
<b>Week 12: Capacity Analysis- Signalised &amp; Unsignalised Intersection II - 27 May 2024</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis- Signalised & Unsignalised Intersection II	1. Chapter 10 of Traffic & Highway Engineering (Garber & Hoel) 2. Chapter 22 of Traffic Engineering (Roger et al.) 3. Chapter 7 of AGTM03-20 4. Chapters 5 & 6 of AGTM06-20	Online Quiz 2 (Open from 31 May 2024, Due by 11.59 pm AEST - 7 June 2024).
<b>Review/Exam Week - 03 Jun 2024</b>		
Module/Topic	Chapter	Events and Submissions/Topic
		<b>Traffic Engineering</b> Due: Review/Exam Week Friday (7 June 2024) 11:59 pm AEST
<b>Exam Week - 10 Jun 2024</b>		
Module/Topic	Chapter	Events and Submissions/Topic

## Assessment Tasks

### 1 Pavement Design

#### Assessment Type

Project (applied)

#### Task Description

This assessment task relates to the unit learning outcomes 3 and 4. It aims to allow the students to demonstrate their understanding of various concepts and theories delivered in the unit for rigid pavement and flexible pavement design using CIRCLY. All students are required to submit their reports individually for this assessment. The report template and requirements will be made available on Moodle.

#### Assessment Due Date

Week 5 Friday (5 Apr 2024) 11:59 pm AEST

#### Return Date to Students

Week 6 Friday (19 Apr 2024)

#### Weighting

30%

#### Minimum mark or grade

50%

#### Assessment Criteria

This assessment will be assessed for the:



- Accuracy of the Input parameter for each computation step with an appropriate unit.
- Application of accurate methodology with appropriate referencing. Full mark will only be awarded for error-free computational steps with an appropriate explanation to be understood by an independent person;
- Accuracy of the answer with the appropriate unit;
- If answers to any preceding steps are inaccurate. A partial mark is awarded for subsequent answers;
- Correct application of mathematics and arithmetic;
- Clearly identified answers; and
- Correct results.

In addition, the assessment as a whole will be assessed against the following criteria:

- Evidence of correct procedures;
- All necessary steps in the analysis are present in the correct order;
- Clear presentation of the mathematical and arithmetical working linking is given;
- Details of the problem with the results are obtained; and
- Evidence of checking results (mathematical, graphical, logical common sense) is presented.

Evidence of an understanding of the topic:

- Explanation of choices made in the analysis (why is the procedure required, why this particular procedure); and
- Interpretation of results

*A similarity check will be always done before marking the submitted assignments for all students. Upon detection of any plagiarism, including i) similarity between submitted reports within the same cohort or ii) with the previous cohorts or iii) submitted works to other institutes or iv) using the material provided by cheating websites will result in failing that assignment without marking, and the student will be reported to the CQU Academic Misconduct team for further actions.*

### Referencing Style

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

### Submission

Online

### Submission Instructions

The submission should be in a single PDF document. Any spreadsheet, software output, or Excel graphs must be transferred to the main PDF document. See Moodle for more detail and description.

### Learning Outcomes Assessed

- Evaluate the pavement sublayer materials properties using appropriate Australian guidelines
- Design structural road pavements using appropriate Australian guidelines

## 2 Practical Assessment

### Assessment Type

Written Assessment

### Task Description

Practical Assessment will assist students in achieving Learning Outcomes 3 and 4 for this unit. For this assessment item, videos demonstrating the following tests will be uploaded onto Moodle, and a set of data (test results) for those tests will be given to the students. Students are required to analyse the data and prepare a practical report explaining the test procedure, the data analysis, and the interpretation of the results. The videos, report requirements, and more information about this assessment task will be made available on Moodle. The practical report should be prepared and

submitted as a team. The students are required to interpret the test results and respond to the questions available on the assessment task for each test. The considered tests for this assessment item are as follows:

- Compaction and density test, AS1289.5.2.1 (2017) or AS1289.5.1.1 (2017)
- Dynamic Cone Penetrometer (DCP) test, AS1289.6.3.2 (2013)
- California Bearing Ratio (CBR) test, AS1289.6.1.1 (2014)
- Lime demand test, QTMR test method (Q133)

Please note that there is no residential school or practical sessions for this assessment task.

**Assessment Due Date**

Week 9 Friday (10 May 2024) 11:59 pm AEST

**Return Date to Students**

Week 11 Friday (24 May 2024)

**Weighting**

25%

**Minimum mark or grade**

50%

**Assessment Criteria**

- Students must prepare a technical description of the test and associated procedures and prepare a data sheet to record the test results.
- Students must prepare a short test report for each experiment. The test report includes calculations and a discussion of the results, and the test procedure description.
- Test reports must be short and precise to point out calculations/results/graphs and discussion. The limit for explaining the procedure, results and conclusions is a maximum of 3-5 pages per test.

A complete submission for practical assessment includes two files:

1. A PDF/MS Word report file to explain the procedure, results, interpretation, and conclusions (Word/PDF file).
2. An Excel File with all analysis and graphs. All cells must be formula-based to track the calculations. Sample calculations must be included in the PDF/MS Word report file.

Each report will be assessed separately for the criterion accuracy and correct procedure as required in the Instruction.

- Correct application of mathematics and arithmetic
- Results clearly identified and explained
- Correct results/explanation

In addition, the report as a whole will be assessed against the following criteria:

Evidence of correct procedures

- All necessary steps in the experiment and reporting are followed in the correct order
- Clear presentation of results obtained
- Evidence of checking results (mathematical, graphical, logic-common sense)

Evidence of the understanding of the topic

- Explanation of possible error in the experiment
- Interpretation of results

## Professional presentation

- Appropriate use of diagrams, clear diagrams
- Correct use of terminology, conventions
- Clear English in the explanation of procedure and interpretation of results

Please note that the practical assessment is a team activity, and the practical report should be prepared and submitted as a team.

*A similarity check will be always done before marking the submitted assignments for all reports. Upon detection of any plagiarism, including i) similarity between submitted reports within the same cohort or ii) with the previous cohorts or iii) submitted works to other institutes, or iv) using the material provided by cheating websites will result in failing that assignment without marking and the student will be reported to the CQU Academic Misconduct team for further actions.*

## Referencing Style

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

## Submission

Online Group

## Submission Instructions

A complete submission for practical assessment includes two files of PDF/MS Word report and an excel file. This is a team submission. See Moodle for more detail and description.

## Learning Outcomes Assessed

- Evaluate the pavement sublayer materials properties using appropriate Australian guidelines
- Demonstrate a professional level of communication and teamwork.

# 3 Traffic Engineering

## Assessment Type

Project (applied)

## Task Description

This assessment task relates to the unit learning outcomes 1 and 2. It aims to allow the students to demonstrate their understanding of various concepts and theories delivered in the unit for traffic flow and capacity analysis using SIDRA and relevant traffic management guidelines. All students are required to submit their reports individually for this assessment. The report template and requirements will be made available on Moodle.

## Assessment Due Date

Review/Exam Week Friday (7 June 2024) 11:59 pm AEST

## Return Date to Students

After the final grade release

## Weighting

25%

## Minimum mark or grade

50%

## Assessment Criteria

This assessment will be assessed for the:

- Accuracy of the Input parameter for each computation step with an appropriate unit.
- Application of accurate methodology with appropriate referencing. Full mark will only be awarded for error-free computational steps with appropriate explanation to be understood by an independent person;
- Accuracy of the answer with the appropriate unit;
- If answers to any preceding steps are inaccurate. A partial mark is awarded for subsequent answers;

- Correct application of mathematics and arithmetic;
- Clearly identified answers; and
- Correct results.

In addition, the assessment as a whole will be assessed against the following criteria:

- Evidence of correct procedures;
- All necessary steps in the analysis are present in the correct order;
- Clear presentation of the mathematical and arithmetical working linking is given;
- Details of the problem with the results are obtained; and
- Evidence of checking results (mathematical, graphical, logic common sense) are presented.

Evidence of an understanding of the topic:

- Explanation of choices made in the analysis (why is the procedure required, why this particular procedure); and
- Interpretation of results

*A similarity check will be always done before marking the submitted assignments for all students. Upon detection of any plagiarism including i) similarity between submitted reports within the same cohort or ii) with the previous cohorts or iii) submitted works to other institutes or iv) using the material provided by cheating websites will result in failing that assignment without marking and the student will be reported to the CQU Academic Misconduct team for further actions.*

#### **Referencing Style**

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

#### **Submission**

Online

#### **Submission Instructions**

The submission should be in a single PDF document. Any spreadsheet, software output, or Excel graphs must be transferred to the main PDF document. See Moodle for more detail and description.

#### **Learning Outcomes Assessed**

- Analyse traffic flows and describe the effect of key traffic flow parameters and their inter-relationships
- Apply systematic approaches to conduct capacity analysis and level of service of roadways and intersections

## **4 Online Quizzes**

#### **Assessment Type**

Online Quiz(zes)

#### **Task Description**

This assessment task consists of two Progressive Tests in the form of online Quizzes.

Each test consists of a number of numerical questions.

Important Notes:

- Each test is set for 60 minutes.
- You can attempt the quiz up to 2 times within the given timeframe (generally one week) specified in the schedule. The test will be automatically closed after the end of the given timeframe.
- The final mark will be the highest of all the attempts.

#### **Number of Quizzes**

2

#### **Frequency of Quizzes**

Other

**Assessment Due Date**

Please see the schedule.

**Return Date to Students**

Immediately after the test

**Weighting**

20%

**Assessment Criteria**

Due to the nature of the assessment, only the final answer will be considered. Full marks will be given for each correct answer, but there will be no partial marks.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Analyse traffic flows and describe the effect of key traffic flow parameters and their inter-relationships
- Apply systematic approaches to conduct capacity analysis and level of service of roadways and intersections
- Evaluate the pavement sublayer materials properties using appropriate Australian guidelines
- Design structural road pavements using appropriate Australian guidelines

## 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