

Profile information current as at 09/05/2024 05:14 pm

All details in this unit profile for ENEM14011 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 introduces the key concepts and principles required to analyse problems involving heat transfer and energy conversion. You will analyse and design heat exchangers and analyse the performance of internal combustion engines, gas turbines, and jet engines. You will analyse the combustion processes of fuels, including hydrogen, estimate pollutant emissions, and analyse and design nozzles. You will prepare professional documents that demonstrate critical evaluation of results. You will be required to show your ability to work effectively to solve problems and communicate your work clearly in a professional manner.

### **Details**

Career Level: Undergraduate

Unit Level: Level 4 Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

## Pre-requisites or Co-requisites

Prereg: ENEM13014 Thermodynamics or ENEM12003 Thermodynamics

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 <u>Assessment Policy and Procedure (Higher Education Coursework)</u>.

## Offerings For Term 1 - 2024

- Bundaberg
- Cairns
- Gladstone
- Mackay
- Mixed Mode
- 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 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: 15%

2. Laboratory/Practical

Weighting: 15%

3. Written Assessment

Weighting: 20% 4. **Online Test** 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 <u>University's Grades and Results Policy</u> 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**

Weekly online quizzes helped student to engage with the unit week by week.

#### Recommendation

This practice should be continued.

#### Feedback from Unit Evaluation

#### Feedback

MCQs during the lecture was very good as it helped to learn critical concepts and it is a good way to allow for interaction between students and lecturer.

#### Recommendation

This practice should be continued.

#### Feedback from Class disucssion

#### Feedback

The unit is well organised and structured with coherent delivery.

#### Recommendation

This practice should be continued.

## **Unit Learning Outcomes**

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

- 1. Investigate heat transfer processes in engineering systems
- 2. Evaluate the performance of heat exchangers and internal combustion engines
- 3. Examine the combustion processes of fuels and carry out related calculations
- 4. Determine the performance of gas turbines with respect to jet propulsion
- 5. Analyse the performance of nozzles and compressors.

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:

#### Intermediate

- 2.3 Application of systematic engineering synthesis and design processes. (LO: 11 21)
- 2.4 Application of systematic approaches to the conduct and management of engineering projects. (LO: 11 21)

#### **Advanced**

1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline. (LO: 11 2A 31 4A 5A 6A)

- 1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline. (LO: 11 21 31 4A 5A 6A)
- 1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline. (LO: 1I 2A 3I 4A 5A 6A)
- 1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 1I 2A 3I 4A 5A 6A)
- 1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 1I 2A 3I 4A 5A 6A)
- 1.6 Understanding of the scope, principles, norms, accountabilities, and bounds of sustainable engineering practice in the specific discipline. (LO: 11 2A 3I 4A 5A 6A)
- 2.1 Application of established engineering methods to complex engineering problem solving. (LO: 11 2A 3I 4A 5A 6A)
- 2.2 Fluent application of engineering techniques, tools, and resources. (LO: 1I 2A 3I 4A 5A 6I )

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 the Engineers Australia's Stage 1 Competency Standard for Professional Engineers and course level mapping information <a href="https://moodle.cqu.edu.au/course/view.php?id=1511">https://moodle.cqu.edu.au/course/view.php?id=1511</a>

N/A Level Introductory Level Graduate Level Advanced Level Advanced						
Alignment of Assessment Tasks to Learning Outcomes						
Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	
1 - Online Quiz(zes) - 15%	•	•	•		•	
2 - Laboratory/Practical - 15%		•				
3 - Written Assessment - 20%	•			•		
4 - Online Test - 50%			•	•	•	
Alignment of Graduate Attributes to Learning Outcomes  Graduate Attributes  Learning Outcomes						
	1		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						

Alignment of Learning Outcomes, Assessment and Graduate Attributes

## Textbooks and Resources

## **Textbooks**

ENEM14011

#### **Prescribed**

# APPLIED THERMODYNAMICS FOR ENGINEERING TECHNOLOGISTS 5TH (1993) AUTHORS: EASTOP, T.D. AND MCCONKEY, A.

Edition: 5 (1993)

Authors: EASTOP, T.D. AND MCCONKEY, A.

Pearson

Sydney , NSW , Australia ISBN: ISBN-13: 9780582091931

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)
- Access to a scanner.
- Video and audio equipment to join online tutorials
- MATLAB and Simulink Suite Software

## Referencing Style

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

## **Teaching Contacts**

Ramadas Narayanan Unit Coordinator

r.narayanan@cqu.edu.au

## Schedule

Week 1 - 04 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Heat Transfer - Conduction, convection, radiation, Fourier's law of conduction, Newton's law of cooling, composite walls and the electrical analogy, heat flow through a cylinder and sphere.	Chapter 16 - Pages 561-576	Tutorial Problems for week 1: 16.1, 16.5, 16.6, 16.8,
Week 2 - 11 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Heat Transfer - Forced convection, natural convection, heat exchangers, heat exchanger effectiveness, extended surfaces	Chapter 16 - Pages 599-632	Tutorial Problems for week 2: 16.16, 16.18, 16.20, 16.21, 16.22, 16.30. Week 2 Quiz

#### Week 3 - 18 Mar 2024

extended surfaces.

Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Numerical Methods for conduction, Finite Difference Method. Heat Transfer- Radiation, black body radiation, grey body, Stefan- Boltzmann law, Lambert's law and the geometric factor, radiant interchange between grey bodies, heat transfer coefficient for radiation.	Chapter 16 - Section 16.6-16-8: Pages 584-599 Chapter 16 -Section 16.14- 16-19: Pages 633-651	Tutorial Problems for week 3:16.37, 16.38, 16.44, 16.46 Week 3 Quiz
Week 4 - 25 Mar 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Internal Combustion Engines - Four- stroke cycle, two-stroke cycle, other types of engines, criteria of performance, engine output and efficiency, performance characteristics.	Chapter 13 - Pages 419-442	Tutorial Problems for weeks 4 & 5: 13.1, 13.2, 13.6, 13.8, 13.9, 13.10, 13.11,13.13  Week 4 Quiz Lab Activity 1
Week 5 - 01 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic
Internal Combustion Engines - Factors influencing performance, real cycles and the air standard cycle, properties of fuels for IC engines, fuel systems, measurement of air and fuel flow rates, supercharging, engine emissions.	Chapter 13 - Pages 442 - 475	Tutorial Problems for weeks 4 & 5: 13.1, 13.2, 13.6, 13.8, 13.9, 13.10, 13.11,13.13  Week 5 Quiz Lab Activity 2
Vacation Week - 08 Apr 2024		
Vacation Week - 08 Apr 2024 Module/Topic	Chapter	Events and Submissions/Topic
·	Chapter	Events and Submissions/Topic
Module/Topic	Chapter	Events and Submissions/Topic  Events and Submissions/Topic
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas	•	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric	Chapter	Events and Submissions/Topic Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas	Chapter	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas analysis.	Chapter	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas analysis.  Week 7 - 22 Apr 2024	Chapter Chapter 7 - Pages 176-192	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17 Apr 2024) 11:45 pm AEST
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas analysis.  Week 7 - 22 Apr 2024  Module/Topic  Combustion - Practical analysis of combustion products, Enthalpy of formation, calorific value of fuels, power plant thermal efficiency, practical determination of calorific	Chapter Chapter 7 - Pages 176-192 Chapter	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17 Apr 2024) 11:45 pm AEST  Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas analysis.  Week 7 - 22 Apr 2024  Module/Topic  Combustion - Practical analysis of combustion products, Enthalpy of formation, calorific value of fuels, power plant thermal efficiency, practical determination of calorific values, air and fuel-vapour mixtures	Chapter Chapter 7 - Pages 176-192 Chapter	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17 Apr 2024) 11:45 pm AEST  Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas analysis.  Week 7 - 22 Apr 2024  Module/Topic  Combustion - Practical analysis of combustion products, Enthalpy of formation, calorific value of fuels, power plant thermal efficiency, practical determination of calorific values, air and fuel-vapour mixtures  Week 8 - 29 Apr 2024	Chapter 7 - Pages 176-192  Chapter  Chapter 7 - Pages 192-230  Chapter	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17 Apr 2024) 11:45 pm AEST  Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 7 Quiz
Module/Topic  Week 6 - 15 Apr 2024  Module/Topic  Combustion - Basic chemistry, fuels, combustion equations, stoichiometric air-fuel ratio, Exhaust and flue gas analysis.  Week 7 - 22 Apr 2024  Module/Topic  Combustion - Practical analysis of combustion products, Enthalpy of formation, calorific value of fuels, power plant thermal efficiency, practical determination of calorific values, air and fuel-vapour mixtures  Week 8 - 29 Apr 2024  Module/Topic  Gas Turbines - Practical gas turbine cycle, modifications to the basic cycle,	Chapter 7 - Pages 176-192  Chapter  Chapter 7 - Pages 192-230  Chapter	Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 6 Quiz  Project Due: Week 6 Wednesday (17 Apr 2024) 11:45 pm AEST  Events and Submissions/Topic  Tutorial Problems for weeks 6 &7: 7.1, 7.3, 7.5, 7.6, 7.8, 7.9, 7.12  Week 7 Quiz  Events and Submissions/Topic  Tutorial Problems: 9.1, 9.2, 9.3, 9.5  Week 8 Quiz

Nozzles and Jet Propulsion - Nozzle shape, critical pressure ratio, maximum mass flow, Nozzles off the design pressure ratio, nozzle efficiency	Chapter 10 - Pages 287-298	Tutorial Problems for weeks 9 &10: 10.1, 10.2, 10.3, 10.4, 10.7, 10.8, 10.9 Week 9 Quiz
Week 10 - 13 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Nozzles and Jet Propulsion - Steam Nozzles, Jet Propulsion	Chapter 10 - Pages 298-325	Tutorial Problems for weeks 9-11: 10.1, 10.2, 10.3, 10.4, 10.7, 10.8, 10.9 Week 10 Quiz
Week 11 - 20 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Compressors - Positive displacement machines, reciprocating compressors, reciprocating compressors including clearance, multistage compression, steady-flow analysis, rotary machines, vacuum pumps, air motors.	Chapter 12 - Pages 381-415	Tutorial Problems: 12.3, 12.5, 12.9 Week 11 Quiz
Week 12 - 27 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Revision	All chapters previously stated	Revise all tutorial problems and worked examples from the textbook.
Review/Exam Week - 03 Jun 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Exam	All chapters previously stated	Exam :Revise all tutorial problems and worked examples from the textbook.
Exam Week - 10 Jun 2024		
Module/Topic	Chapter	Events and Submissions/Topic
		<b>End of Term Online Test</b> Due: Exam Week Wednesday (12 June 2024) 10:00 am AEST

### **Assessment Tasks**

## 1 Online Quizzes

## **Assessment Type**

Online Quiz(zes)

### **Task Description**

These weekly quizzes assess contents from each week. There will be 10 quizzes starting from week 2 extending up to week 11 and all quizzes together will have 15% weighting of the course. The assessment task can be accessed from the unit Moodle site on a weekly basis. Each quiz will be open for a week and students need to attempt within the open period. Weekly due dates will be given in Moodle.

#### **Number of Quizzes**

10

### **Frequency of Quizzes**

Weekly

## **Assessment Due Date**

Weekly due dates will be given in the Moodle

#### **Return Date to Students**

Return Date to Students Students will be getting feedback immediately after the submission of the quizzes.

#### Weighting

15%

#### Minimum mark or grade

50%

#### **Assessment Criteria**

The correct answer will get full marks and the incorrect answer will be given zero marks.

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

## **Learning Outcomes Assessed**

- Investigate heat transfer processes in engineering systems
- Evaluate the performance of heat exchangers and internal combustion engines
- Examine the combustion processes of fuels and carry out related calculations
- Analyse the performance of nozzles and compressors.

## 2 Practical Assessment

#### **Assessment Type**

Laboratory/Practical

#### **Task Description**

Attend all the laboratory sessions and participate in the learning activities and complete related reports. Details of the laboratory activities will be available in Moodle.

#### **Assessment Due Date**

Due date of each activity will be given in the Moodle.

#### **Return Date to Students**

Two weeks after the submission

### Weighting

15%

#### Minimum mark or grade

50%

#### **Assessment Criteria**

The students will be assessed on attendance, participation, report, test results, presentation skills, discussions and tasks specified in the lab information sheets given in the Moodle.

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online Group

#### **Learning Outcomes Assessed**

• Evaluate the performance of heat exchangers and internal combustion engines

## 3 Project

#### **Assessment Type**

Written Assessment

#### **Task Description**

This assignment assesses contents from Week 1 to Week 4. The assessment task will be available on the unit Moodle site three weeks prior to its due date. You must provide detailed solutions to the problems given in the assignment in order to demonstrate your knowledge and understanding of the concepts and processes, incorporating any assumptions made, relevant sketches, clear step-by-step

solution and conclusion/judgment on the answer

#### **Assessment Due Date**

Week 6 Wednesday (17 Apr 2024) 11:45 pm AEST

#### **Return Date to Students**

Week 8 Wednesday (1 May 2024) Two weeks after the submission

#### Weighting

20%

#### Minimum mark or grade

50%

#### **Assessment Criteria**

The submission will be graded based on the presentation, the method of solution, appropriate explanation and completeness of the solution. A complete solution should include your interpretation of the problem, any assumptions made, relevant sketches, clear step-by-step solution and conclusion/judgment on the answer.

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online Group

#### **Learning Outcomes Assessed**

- Investigate heat transfer processes in engineering systems
- Determine the performance of gas turbines with respect to jet propulsion

## 4 End of Term Online Test

## **Assessment Type**

Online Test

#### **Task Description**

This online assessment will be held during exam week. All students need to complete this assessment at the same time. Students will receive the assessment via Moodle at the same time and have to provide the answers via Moodle. Details will be provided on the unit website.

### **Assessment Due Date**

Exam Week Wednesday (12 June 2024) 10:00 am AEST

#### **Return Date to Students**

Two weeks after the submission

#### Weighting

50%

### Minimum mark or grade

50%

#### **Assessment Criteria**

You must provide detailed solutions to the problems given in the assessment in order to demonstrate your knowledge and understanding of the concepts and processes incorporating any assumptions made, relevant sketches, clear step by step solution and conclusion/judgment on the answer

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

## **Learning Outcomes Assessed**

Examine the combustion processes of fuels and carry out related calculations

- Determine the performance of gas turbines with respect to jet propulsion
- Analyse the performance of nozzles and compressors.

## 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 <u>Academic Learning Centre (ALC)</u> 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