



ENEC14016 Traffic and Transportation Engineering

Term 1 - 2021

Profile information current as at 28/11/2021 06:27 pm

All details in this unit profile for ENEC14016 have been officially approved by CQUUniversity 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. If you are enrolled in distance mode, you will be required to attend a residential school during the term.

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 - 2021

- 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).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

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. **Report**

Weighting: 25%

2. **Report**

Weighting: 25%

3. **Report**

Weighting: 30%

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 Website

Feedback

The software taught in this unit was beneficial to support learning.

Recommendation

Continue to teach the software.

Feedback from Moodle Website

Feedback

Online quiz questions and assignments should be designed based on the current guidelines.

Recommendation

All assessment tasks will be updated based on the current guidelines and standards.

Feedback from Moodle Website

Feedback

The students found some topics informative and interesting, while more discussion and explanation is suggested.

Recommendation

More insightful and practical materials will be discussed for a better understanding of the concepts.

Feedback from Moodle Website

Feedback

Assignments criteria needs improvement.

Recommendation

More information about the assignment requirements and criteria will be delivered 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 team work.

The Learning Outcomes for this unit are linked with Engineers Australia's Stage 1 Competency Standard.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Report - 25%	•	•			•

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
2 - Report - 30%			•	•	•
3 - Report - 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					

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes								
	1	2	3	4	5	6	7	8	9
1 - Report - 25%	•	•	•	•		•	•	•	
2 - Report - 30%	•	•	•	•		•	•	•	
3 - Report - 25%	•	•	•	•	•	•	•	•	
4 - Online Quiz(zes) - 20%		•	•	•				•	

Textbooks and Resources

Textbooks

ENEC14016

Supplementary

Traffic and Highway Engineering, Enhanced SI Editions ()

Authors: Nicholas J. Garber & Lester A. Hoel

Cengage Learning US

Stamford, CT 06902 , USA

ISBN 9781337631044

Binding: Paperback

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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

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Schedule

Week 1: Traffic Flow Characteristics - 08 Mar 2021

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	

Week 2: Capacity and Level of Service Concepts - 15 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Capacity and Level of Service Fundamentals	<ol style="list-style-type: none"> Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) Chapters 6 & 7 of Traffic Engineering (Roger et al.) Chapters 3 & 4 of AGTM03-20
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Week 3:Capacity Analysis- Highway - 22 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis-Highway	<ol style="list-style-type: none"> Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) Chapters 6 & 7 of Traffic Engineering (Roger et al.) Chapter 4 of AGTM03-20 	

Week 4:Capacity Analysis- Freeway - 29 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis-Freeway	<ol style="list-style-type: none"> Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) Chapter 28 of Traffic Engineering (Roger et al.) Chapter 5 of AGTM03-20 	

Week 5:Capacity Analysis- Weaving Segments - 05 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis- Weaving Segments on Freeways	<ol style="list-style-type: none"> Chapter 9 of Traffic & Highway Engineering (Garber & Hoel) Chapters 29 & 30 of Traffic Engineering (Roger et al.) Chapter 5 of AGTM03-20 	

Vacation Week - 12 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic

Week 6:Signalised & Unsignalised Intersection Fundamentals - 19 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Signalised & Unsignalised Intersection Fundamentals	<ol style="list-style-type: none"> Chapter 8 of Traffic & Highway Engineering (Garber & Hoel) Chapter 7 of AGTM03-20 Chapter 3 of AGTM06-20 	

Week 7:Capacity Analysis- Signalised & Unsignalised Intersection - 26 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Capacity Analysis- Signalised & Unsignalised Intersection	<ol style="list-style-type: none"> Chapter 10 of Traffic & Highway Engineering (Garber & Hoel) Chapter 22 of Traffic Engineering (Roger et al.) Chapter 7 of AGTM03-20 Chapters 5 & 6 of AGTM06-20 	<p>Online Quiz 1 (Open from 30 April 2021 Due by 11.59 pm AEST - 07 May 2021).</p> <p>Traffic Engineering Due: Week 7 Friday (30 Apr 2021) 11:59 pm AEST</p>

Week 8:Design of Flexible Pavement I - 03 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Design of Flexible Pavement I	<ol style="list-style-type: none"> Chapters 2, 5 & 6 of AGPT02-19 Chapter 19 of Traffic & Highway Engineering (Garber & Hoel) 	

Week 9:Design of Flexible Pavement II - 10 May 2021

Module/Topic	Chapter	Events and Submissions/Topic

Design of Flexible Pavement II

1. Chapter 8 of AGPT02-19
2. Chapters 6 & 7 of AGPT05-19

Week 10: Design of Rigid Pavement I - 17 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Design of Rigid Pavement I	<ol style="list-style-type: none">1. Chapters 2, 5 & 6 of AGPT02-192. Chapter 20 of Traffic & Highway Engineering (Garber & Hoel)	Practical Assessment Due: Week 10 Friday (21 May 2021) 11:59 pm AEST

Week 11: Design of Rigid Pavement II - 24 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Design of Rigid Pavement II	<ol style="list-style-type: none">1. Chapter 9 of AGPT02-192. Chapters 6 & 8 of AGPT05-19	Pavement Design Due: Week 11 Friday (28 May 2021) 11:59 pm AEST

Week 12: Design of Structural Overlay - 31 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Pavements Treatment Design	<ol style="list-style-type: none">1. Chapters 10, 11 & 12 of AGPT05-19	Online Quiz 2 (Open from 04 June 2021 Due by 11.59 pm AEST - 11 June 2021).

Review/Exam Week - 07 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Exam Week - 14 Jun 2021

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

From 2021, the labs will be run in block mode (i.e. each campus will run its own lab at a particular week.). There will not be any residential school. The students are encouraged to enrol and attend the practical sessions at their nearest campus to complete this unit's practical component.

Assessment Tasks

1 Traffic Engineering

Assessment Type

Report

Task Description

This assessment task 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. All students are required to submit their reports individually for this assessment. The report template and requirements will be made available on the Moodle.

Assessment Due Date

Week 7 Friday (30 Apr 2021) 11:59 pm AEST

Return Date to Students

Week 9 Friday (14 May 2021)

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. 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
- Demonstrate a professional level of communication and team work.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

2 Practical Assessment

Assessment Type

Report

Task Description

Practical exercises assist students in achieving the Learning Outcomes for this unit. For this assessment item, students will be formed into teams of generally 2-3 members. Students are required to complete the laboratory activities as per instructions given in the Practical Instruction Sheets. The Practical Instruction Sheets, report requirements, and more information about this assessment task will be made available on the Moodle. The practical report should be prepared and submitted as a team.

The required practical activities 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 the practical activities duration on each campus may be slightly different from the other campuses. Practical sessions at all campuses will be finished by the end of Week 8.

Assessment Due Date

Week 10 Friday (21 May 2021) 11:59 pm AEST

Return Date to Students

Week 12 Friday (4 June 2021)

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 discussion on 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 (Word/PDF file).

A complete submission for practical assessment includes two files:

1. A PDF/MS Word report file to explain the procedure, results, interpretation, and conclusions (maximum of 3-5 pages).
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 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. All teams should upload a single team report. Each student should contribute towards the report preparation, testing, analysis and interpretations.

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 (i.e. one report per team). 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 team work.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

3 Pavement Design

Assessment Type

Report

Task Description

This assessment task 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 the Moodle.

Assessment Due Date

Week 11 Friday (28 May 2021) 11:59 pm AEST

Return Date to Students

Review/Exam Week Friday (11 June 2021)

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. 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

- Evaluate the pavement sublayer materials properties using appropriate Australian guidelines
- Design structural road pavements using appropriate Australian guidelines
- Demonstrate a professional level of communication and team work.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

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 have 60 minutes from when you start your attempt to submit your answers. If you start but leave a test and come back to it later, your 60 min time may have lapsed, and you will be scored zero for that attempt.
- 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.
- Even though the tests are open for a few days, it is expected that your first attempt would be on the first day.
- Tests can not be deferred.

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 answers, 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

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy
- Ethical practice

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