

Profile information current as at 16/05/2024 04:26 pm

All details in this unit profile for PSIO12001 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 will provide students with an introduction to the assessment and treatment of musculoskeletal problems in the lower limb, pelvis and lumbar spine for clients across the lifespan, allowing the development of an evidence based, problem solving approach to these presentations. The unit will enable students to apply effective clinical reasoning, integrate and apply both specific and generic physiotherapeutic skills that underpin patient centred assessment and management. This will include the use of electrophysical agents.

Details

Career Level: Undergraduate Unit Level: Level 2 Credit Points: 6 Student Contribution Band: 8 Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisites: PSIO11004 Foundations of Physiotherapy Practice 1 PSIO11003 Foundations of Physiotherapy Practice 2 ALLH11005 Anatomy and Physiology for Health Professionals 1 ALLH11004 Anatomy and Physiology for Health Professionals 2 Co-requisite: ALLH12008 Functional Anatomy and Biomechanics

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</u> <u>Procedure (Higher Education Coursework)</u>.

Offerings For Term 1 - 2017

- Bundaberg
- 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

Online Quiz(zes)
 Weighting: 20%
 Group Work
 Weighting: 30%
 On-campus Activity
 Weighting: Pass/Fail
 Practical Assessment
 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 <u>CQUniversity Policy site</u>.

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 <u>CQUniversity Policy site</u>.

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 Direct feedback from DDLT. Have your Say

Feedback

Students were concerned that they were notified of a widespread issue of potential plagiarism in a previous assignment before an upcoming minor assessment component (10%). There was a concern that this affected their performance in the subsequent assessment because they were worried about whether they were implicated.

Recommendation

All students were advised collectively that there would be a delay in returning their assignments due to a potential issue with widespread plagiarism. The impact of the timing of this announcement on potential student performance was not fully anticipated and in the future it is recommended that any comments on academic misconduct should be left until after other assessment components are completed. All students progressing in the program will receive additional instruction on correct referencing style. Additionally, students will be further reminded to use the "Turnitin" tool before submitting written assessment components for grading to avoid any future problems with plagiarism.

Action

All teaching staff are now informed on the importance of timing in regards to addressing academic misconduct. Education around plagiarism and referencing has been embedded into a first year unit.

Feedback from Have your Say

Feedback

A permanent staff member teaching on this course in ROK was well received and appreciated by the students as was the ability of each lecturer to spend some time on the alternate campuses during the teaching term.

Recommendation

Permanent staff members teaching on this course are recommended to continue as is the staff exchange across campuses during the term.

Action

Permanent staff have now been sought at each campus.

Unit Learning Outcomes

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

- 1. Design and conduct a client interview and explain different approaches to information gathering.
- 2. Assess the lower limb, pelvis and lumbar spine for clients across the lifespan, and interpret and analyse findings.
- 3. Discuss the pathological processes, the symptomatology, clinical course, medical management and expected outcomes of common presentations and pathologies.
- 4. Develop a physiotherapy intervention plan, including goal setting, exercise and self-management.
- 5. Explain and discuss various pain mechanisms.
- 6. Practice and justify safe and effective use of electrophysical agents and equipment relevant to neuromusculoskeletal physiotherapy.

The Learning Outcomes and Assessment tasks have been mapped against and aligned with the Australian Standards for Physiotherapy.

Professional

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Advanced

Level

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Graduate

Level



Alignment of Assessment Tasks to Learning Outcomes

Intermediate

Level

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Online Quiz(zes) - 20%			•		٠	•
2 - Group Work - 30%	•	•	•	٠	٠	
3 - On-campus Activity - 0%	•	٠	•	٠	٠	•
4 - Practical Assessment - 50%	•	٠	•	٠	٠	٠

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	I	Learning Outcomes					
	:	1	2	3	4	5	6
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 Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Online Quiz(zes) - 20%		•	•	•		•				
2 - Group Work - 30%	•	•	•	•	•	•	•	•		
3 - On-campus Activity - 0%	•									
4 - Practical Assessment - 50%	•	•	•	•			•	•		

Textbooks and Resources

Textbooks

PSI012001

Prescribed

Brukner & Khan's Clinical Sports Medicine: Injuries, Volume 1

Edition: 5th (2016) Authors: Brukner P, Clarsen B, Cook J, Cools A, Crossley K, Hutchinson M, McCrory P, Bahr R, and Khan K McGraw-Hill Education Australia ISBN: 9781743761380 Binding: Hardcover PSIO12001

Prescribed

Neuromusculoskeletal Examination and Assessment: A Handbook for Therapists 4th Edition

Edition: 4th (2013) Authors: Petty N Churchill Livingstone United Kingdom ISBN: 9780702055041 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)
- Clinics in Motion (http://www.clinicsinmotion.com)

Referencing Style

All submissions for this unit must use the referencing style: <u>American Psychological Association 6th Edition (APA 6th</u> edition)

For further information, see the Assessment Tasks.

Teaching Contacts

Luke Heales Unit Coordinator I.heales@cqu.edu.au

Schedule

Week 1 - 06 Mar 2017

Module/Topic

Chapter

Course introduction. Effective and efficient history taking Chapter 2 'Subjective examination' Petty (2013) Chapter 14 'Clinical assessment: moving from rote to rigorous' Brukner & Khan (2016). Refer to Moodle for additional resources. **Events and Submissions/Topic**

Week 2 - 13 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
The tissue healing cycle and diagnostic triage. POLICE Flags. Neurological testing	Neurological tests, Chapter 3 'Physical Examination' Petty (2013) Chapter 17 'Treatment of sports injuries' Brukner & Khan (2016). Refer to Moodle for additional resources.	
Week 3 - 20 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Examination and treatment of the hip region.	Chapter 3 'Physical Examination' and Chapter 14 'Physical examination of the hip region', Petty (2013). Chapter 31 'Hip pain' Brukner & Khan (2016). Refer to Moodle for additional resources.	Hurdle 1 (Video - History taking)
Week 4 - 27 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Examination and treatment of the knee region. Cryotherapy (ice-massage).	Chapter 15 'Examination of the knee region', Petty (2013). Chapter 35 'Acute knee injuries' Brukner & Khan (2016). Chapter 36 'Anterior knee pain' Brukner & Khan (2016). Refer to Moodle for additional resources.	
Week 5 - 03 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Examination and treatment of the ankle.	Chapter 16 'Examination of the foot and ankle', Petty (2013). Chapter 41 'Acute ankle injuries' Brukner & Khan (2016). Chapter 42 'Ankle pain' Brukner & Khan (2016). Refer to Moodle for additional resources.	Online Quiz 1.
Vacation Week - 10 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 17 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Examination and treatment of the foot.	Chapter 16 'Examination of the foot and ankle', Petty (2013). Chapter 43 'Foot pain' Brukner & Khan (2016). Refer to Moodle for additional resources.	Hurdle 2 (Video - Examination Lower Limb)
Week 7 - 24 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Electrical stimulation modalities. Ultrasound.	Chapter 17 'Treatment of sports injuries' Brukner & Khan (2016). Refer to Moodle for additional resources.	Group Work Due: Week 7 Friday (28 Apr 2017) 4:30 pm AEST
Week 8 - 01 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic

Examination and treatment of the lumbar region.	Chapter 12 'Examination of the lumbar region', Petty (2013). Chapter 29 'Low back pain' Brukner & Khan (2016). Refer to Moodle for additional resources.	
Week 9 - 08 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Examination and treatment of the SIJ.	Chapter 13 'Examination of the pelvis', Petty (2013). Chapter 30 'Buttock pain' Brukner & Khan (2016). Refer to Moodle for additional resources.	
Week 10 - 15 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Clinical reasoning.	Chapter 2 'Subjective examination' Petty (2013) Refer to Moodle for additional resources.	Online Quiz 2.
Week 11 - 22 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Clinical applications.	Revision of all previous readings (chapters). Refer to Moodle for additional resources.	
Week 12 - 29 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Revision.	Revision of all previous readings (chapters).	
Review/Exam Week - 05 Jun 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 12 Jun 2017		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Online Quiz(zes)

Assessment Type Online Quiz(zes)

Task Description

There are two online quizzes:

- Quiz 1 in Week 5 (10% of unit grade) covering content from weeks 1-4.
- Quiz 2 in Week 10 (10% of unit grade) covering content from weeks 1-9.

Both quizzes will consist of up to 20 questions, and will have a time limit of 40 minutes. The questions will be identical for all students but the order in which they appear will be randomly generated by a computer, so that the quizzes will appear differently for each student. Access to books, notes, websites (other than the quiz) and use of other electronic devices are prohibited during the quiz. The use of a mobile phone is not permitted for this assessment. Both of these quizzes may be scheduled outside of normal class hours.

The quizzes will consist of some or all of these categories:

• Multiple choice questions.

- Fill in the missing word(s) questions.
- Questions relating to multimedia material (e.g. images, videos).
- Short answer questions

Weighting: 20% of your final mark (10% from each online quiz).

Day/Time Quiz 1: During Week 5 and will assess content covered during Weeks 1-4.

Day/Time Quiz 2: During Week 10 and will assess content covered during Weeks 1-9.

Assessment criteria: Quiz questions will be marked to provide a raw score with students awarded an overall percentage mark.

Return to students: Quiz 1 and Quiz 2 will be marked electronically. Results will be accessible through the Moodle website.

Submission information: Submission will be online.

Policies and Procedures: The CQUniversity Assessment of Coursework Procedures policy (for centrally timetabled examinations) applies to all assessment items in this unit.

Number of Quizzes

2

Frequency of Quizzes Other

Assessment Due Date

Quiz 1 in Week 5, Quiz 2 in Week 10

Return Date to Students

Quiz 1 in Week 6, Quiz 2 in Week 11

Weighting 20%

Assessment Criteria

Students will be provided with their raw score and percentage (e.g. 17/20 85%).

Referencing Style

<u>American Psychological Association 6th Edition (APA 6th edition)</u>

Submission

Online

Submission Instructions

Quizzes will be taken online. Students must submit this assessment item to be eligble to PASS this unit

Learning Outcomes Assessed

- Discuss the pathological processes, the symptomatology, clinical course, medical management and expected outcomes of common presentations and pathologies.
- Explain and discuss various pain mechanisms.
- Practice and justify safe and effective use of electrophysical agents and equipment relevant to neuromusculoskeletal physiotherapy.

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

2 Group Work

Assessment Type

Group Work

Task Description

Students will work in small groups and develop a written appraisal and a video demonstration of **one** assessment **or** treatment technique relevant to a chosen musculoskeletal condition of the lower limb or lower back. The written component will be a maximum of 1,500 words including in-text referencing, tables and figures. The written

component will include a background/introduction to the assessment or treatment technique, an appraisal of the current literature describing the technique, and a conclusion. Referencing must follow the APA format.

The video should demonstrate the chosen assessment or treatment technique, and include commentary explaining how to perform the technique (e.g. hand placement direction of force) and how to interpret the potential findings, both positive and negative. The video must not exceed 4 minutes.

Students will be allocated to groups by the end of week 3, and the submission is due in week 7.

Weighting: 30% of your final mark.

Format: You are required to use a standardised format.

Word Count: Maximum word count is 1500 words including in-text referencing, tables and figures.

Referencing: American Psychological Association (APA) Referencing Style

Submission Instructions: Online submission through Moodle

Policies and Procedures: The CQUniversity *Assessment of Coursework Procedures policy* (for centrally timetabled examinations) applies to all assessment items in this unit. The monitoring of attendance will take into consideration legitimate reasons for absence, as outlined in the aforementioned CQUniversity *Assessment of Coursework Procedures policy*, and these will not be counted as absence for the purpose of this attendance requirement.

Assessment Due Date

Week 7 Friday (28 Apr 2017) 4:30 pm AEST

Return Date to Students Monday (15 May 2017)

Weighting 30%

Minimum mark or grade

Students must submit this assessment to be eligible to PASS this unit.

Assessment Criteria

The assessment rubric for this assessment task is based on the Practice Thresholds for Physiotherapy set by the Australian Physiotherapy Council, and *The Assessment of Physiotherapy Practice Instrument*. These quality frameworks are mapped against the CQUniversity Graduate Attributes, and intended to give a holistic understanding of standards expected for the assessment task. See Moodle for specific assessment rubric.

Referencing Style

<u>American Psychological Association 6th Edition (APA 6th edition)</u>

Submission

Online Group

Learning Outcomes Assessed

- Design and conduct a client interview and explain different approaches to information gathering.
- Assess the lower limb, pelvis and lumbar spine for clients across the lifespan, and interpret and analyse findings.
 Discuss the pathological processes, the symptomatology, clinical course, medical management and expected
- outcomes of common presentations and pathologies.
- Develop a physiotherapy intervention plan, including goal setting, exercise and self-management.
- Explain and discuss various pain mechanisms.

Graduate Attributes

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

3 On-Campus Activity

Assessment Type

On-campus Activity

Task Description

Attendance: A minimum attendance requirement of 85% for all tutorial and practical sessions is required to PASS this unit. This is recommended by the Australian Physiotherapy Council and is required for accreditation purposes. The monitoring of attendance will take into consideration legitimate reasons for absence, such as those outlined in the

<u>Assessment of Coursework Procedures</u> policy (1.21, 1.23 and 1.24), and these will not be counted as absence for the purpose of this attendance requirement. To ensure their absence does not count towards the attendance requirement, students must contact the Unit Coordinator as their earliest convenience and supply all relevant paperwork (e.g. medical certificate).

There are two additional hurdle requirements for this unit. These hurdles are **not compulsory to PASS this unit** but provide students with an opportunity to submit their work for formative feedback. This allows students to confirm the knowledge and practice their skills.

Hurdle 1: Provides the opportunity for students to submit a short video demonstrating the undertaking of a component of the patient history examination (i.e. subjective history). Maximum of 5 minutes. Hurdle 1 due week 3.

Hurdle 2: Provides the opportunity for students to submit a video demonstrating the undertaking of one assessment or treatment technique for the lower limb. Maximum of 4 minutes. Hurdle 2 due week 6.

Assessment Due Date

See above.

Return Date to Students

End of Term 1.

Weighting Pass/Fail

Minimum mark or grade

A minimum of 85% attendance at tutorial and practical sessions is required to achieve a PASS in this unit.

Assessment Criteria No Assessment Criteria

Referencing Style

<u>American Psychological Association 6th Edition (APA 6th edition)</u>

Submission

Offline

Learning Outcomes Assessed

- Design and conduct a client interview and explain different approaches to information gathering.
- Assess the lower limb, pelvis and lumbar spine for clients across the lifespan, and interpret and analyse findings.
- Discuss the pathological processes, the symptomatology, clinical course, medical management and expected outcomes of common presentations and pathologies.
- Develop a physiotherapy intervention plan, including goal setting, exercise and self-management.
- Explain and discuss various pain mechanisms.
- Practice and justify safe and effective use of electrophysical agents and equipment relevant to neuromusculoskeletal physiotherapy.

Graduate Attributes

• Communication

4 Practical Assessment

Assessment Type

Practical Assessment

Task Description

The Practical Assessment, commonly referred to as an Objective Structured Clinical Exam (OSCE), will be based on two (2) written clinical case scenarios (simulated patients). Students will perform and discuss aspects of relevant assessment, treatment and overall management of the condition presented. Students will rotate between 2 stations with 2 different examiners. All material from Musculoskeletal Physiotherapy 1 is examinable (along with previous prerequisite units e.g. Anatomy & Physiology 1 & 2, Foundations of Physiotherapy 1 and 2). In order to pass the OSCE both scenarios must be passed (minimum 50% grade for each scenario). The OSCE will last for approximately 60 minutes (30 minutes of preparation time [reading and writing], and 15 minutes on each case). Students are required to model for the following students' exam.

Weighting: 50% of your final mark.

Location: Location will be notified towards the end of Term 1.

Day/Time: The OSCE will take place during the University Exam Period. A detailed timetable will be made available towards the end of Term 1.

Assessment Criteria/Marking: The assessment rubric is based on the Physiotherapy Practice Thresholds in Australia and Aotearoa New Zealand.

Policies and Procedures: The CQUniversity *Assessment of Coursework Procedures policy* (for centrally timetabled examinations) applies to all assessment items in this unit.

Supplementary Assessments: As per the CQU *Assessment of Coursework Procedures* policy, students will not be notified regarding final unit grades, including the provision of Supplementary Assessments, prior to the official Certification of Grade date for Term 1. All Supplementary Assessments will be granted in accordance with the *Grades and Results Procedures* policy. Supplementary Assessments will be required to be completed within the two weeks following Certification of Grades.

Assessment Due Date

The Practical Assessment will take place during the exam Week. An individual assessment timetable will be published prior to the end of Term 1.

Return Date to Students

Results and feedback will be available following certification of grades.

Weighting

50%

Minimum mark or grade

A minimum of 50% in both clinical case scenarios in the OSCE is required in order to PASS this unit.

Assessment Criteria

The assessment rubric for this assessment task is based on the Practice Thresholds for Physiotherapy set by the Australian Physiotherapy Council, and The Assessment of Physiotherapy Practice Instrument. These quality frameworks are mapped against the CQUniversity Graduate Attributes, and intended to give a holistic understanding of standards expected for the assessment task.

Referencing Style

<u>American Psychological Association 6th Edition (APA 6th edition)</u>

Submission

Offline

Learning Outcomes Assessed

- Design and conduct a client interview and explain different approaches to information gathering.
- Assess the lower limb, pelvis and lumbar spine for clients across the lifespan, and interpret and analyse findings.
- Discuss the pathological processes, the symptomatology, clinical course, medical management and expected outcomes of common presentations and pathologies.
- Develop a physiotherapy intervention plan, including goal setting, exercise and self-management.
- Explain and discuss various pain mechanisms.
- Practice and justify safe and effective use of electrophysical agents and equipment relevant to neuromusculoskeletal physiotherapy.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Cross Cultural Competence
- 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 <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?





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