

Profile information current as at 10/04/2024 04:08 pm

All details in this unit profile for ALLH12008 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 you with a comprehensive overview of functional anatomy and applied biomechanics, with a focus on understanding the determinants of human movement and locomotion. The unit will build upon your existing knowledge of musculoskeletal anatomy and physiology, and develop your skills in qualitative and quantitative assessment of human movement, to better understand musculoskeletal injury mechanisms and rehabilitation strategies.

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

To enrol in this unit you must be enrolled in the CB85 Course and meet the following pre-requisites and co-requisites: Prerequisites: BMSC11007 Medical Anatomy and Physiology 1 BMSC11008 Medical Anatomy and Physiology 2 PSIO11003 Foundations of Physiotherapy Practice 2 Co-requisite: PSIO12001 Musculoskeletal Physiotherapy 1 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 - 2019

- 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

1. In-class Test(s) Weighting: 20%

2. Practical Assessment

Weighting: 30% 3. In-class Test(s) Weighting: 50% 4. On-campus Activity Weighting: Pass/Fail

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 Student Feedback - Have Your Say

Feedback

Students generally enjoyed the 'new' practical components introduced into the tutorials, however, some students requested more time be allocated to complete the tutorial questions.

Recommendation

The balance between practical and theoretical activities within each practical session and across the entire unit will be reviewed and modified accordingly. If required, some practical activities will be removed to ensure adequate time to complete important tutorial questions in-class.

Feedback from Student Feedback - Have Your Say

Feedback

A number of students commented that the extra two-hour Q&A revision session was extremely helpful in preparing for their final assessment task.

Recommendation

This session will be offered again in 2019. An additional Q&A revision session held during mid-term, and for the same assessment task, will also be considered for 2019.

Feedback from Student Feedback - Have Your Say and Email correspondence.

Feedback

A large number of students from the Rockhampton campus commented that the audio quality during both live and recorded lectures was 'extermely poor' and impacted their student experience and exam preparation.

Recommendation

As per previous years, we will submit a timetabling request to schedule all live lectures for ALLH12008 in dedicated lecture theatres, and not practical/tutorial rooms.

Feedback from Student Feedback - Have Your Say

Feedback

A number of students found the Written Assignment extremely challenging and felt that the weighting may be too high for the time required to complete it.

Recommendation

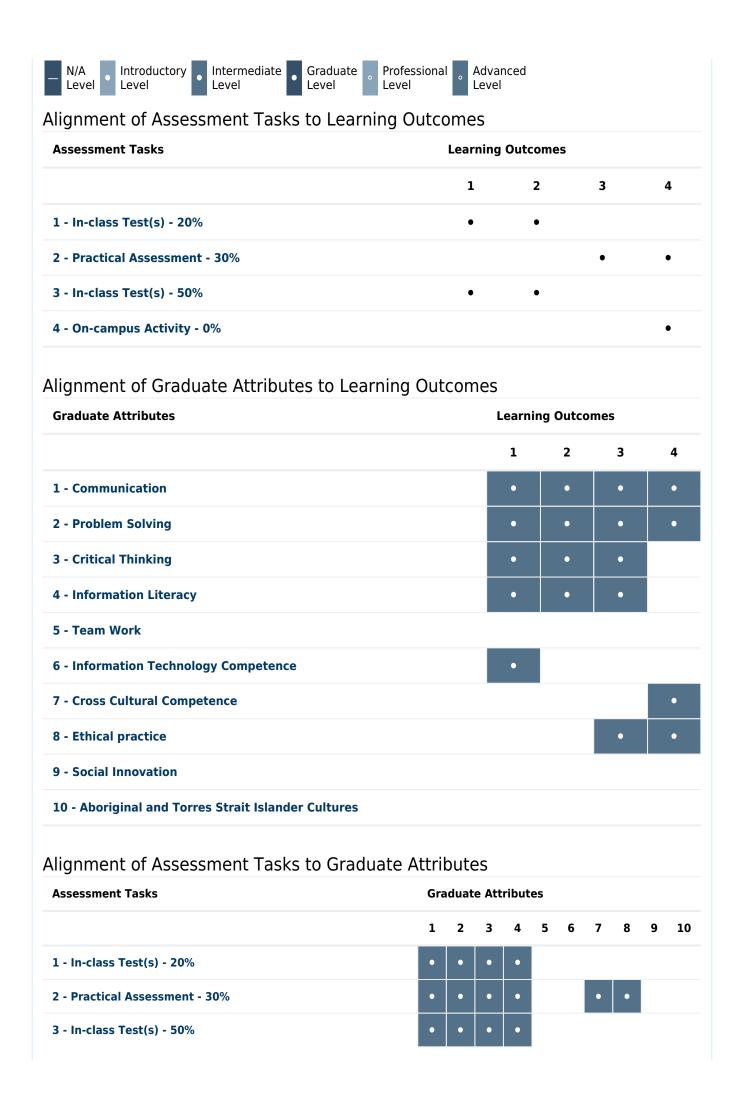
This assessment task will be reviewed, and if required, modified or replaced with a new assessment task more appropriate to the Graduate Attribute level of this unit (i.e. Intermediate).

Unit Learning Outcomes

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

- 1. Demonstrate sound knowledge of structural and functional anatomy in the context of human movement, injury and rehabilitation
- 2. Explain and interpret key biomechanical principles and measurement techniques in the context of human movement, injury and rehabilitation
- 3. Select, perform and interpret qualitative and/or quantitative assessments of functional anatomy and applied biomechanics relevant to physiotherapy practice
- 4. Demonstrate acceptable professional and ethical behaviours consistent with a physiotherapy practitioner and community leader.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Assessment Tasks	Gra	Graduate Attributes								
	1	2	3	4	5	6	7	8	9	10
4 - On-campus Activity - 0%								•		

Textbooks and Resources

Textbooks

ALLH12008

Prescribed

Kinesiology of the musculoskeletal system: Foundations for rehabilitation

Edition: 3rd (2016)

Authors: Donald A. Neumann

Mosby Elsevier

St. Louis , Missouri , USA ISBN: 978-0-3232-8753-1 Binding: Hardcover ALLH12008

Supplementary

Neuromechanics of Human Movement

Edition: 5th (2015) Authors: Roger Enoka Human Kinetics

Champaign , Illinois , USA ISBN: 9781450458801 Binding: Paperback ALLH12008

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Supplementary

Orthopedic Physical Assessment

Edition: 6th (2014) Authors: David J Magee

Elsevier

St Louis , Missouri , USA ISBN: 978-1-4557-0977-9 Binding: Hardcover

Additional Textbook Information

Copies can be purchased from the CQUni Bookshop here: http://bookshop.cqu.edu.au (search on the Unit code)

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

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

For further information, see the Assessment Tasks.

Teaching Contacts

Steven Obst Unit Coordinator s.obst@cqu.edu.au

Schedule

Week 1 - 11 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Introduction to course, overview of assessment tasks Introduction to biomechanical analysis	Chapters 1 and 4 (Neumann, 2017)	
Week 2 - 18 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics of bone and cartilage Biomechanics of skeletal muscle and tendon	Chapters 2 and 3 (Neumann, 2017)	
Week 3 - 25 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics of joints Biomechanics of the hip	Chapters 2 and 12 (Neumann, 2017)	
Week 4 - 01 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics of the knee Biomechanics of the ankle	Chapters 13 and 14 (Neumann, 2017)	
Week 5 - 08 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics of the foot	Chapter 14 (Neumann, 2017)	Mid-Term Test Due: Week 5 Wednesday (10 Apr 2019) 10:00 am AEST
Vacation Week - 15 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 22 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Gait Analysis (Part 1): Gait cycle, joint kinematics Gait Analysis (Part 2): Joint kinetics, muscle activation	Chapters 15 and 16 (Neumann, 2017)	
Week 7 - 29 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics of the spine (Part 1): Joints Biomechanics of the spine (Part 2): Musculature	Chapters 9 and 10 (Neumann, 2017)	
Week 8 - 06 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics of the spine (Part 3): Injury mechanisms and lifting techniques	Chapters 9 and 10 (Neumann, 2017)	

Week 9 - 13 May 2019			
Module/Topic	Chapter	Events and Submissions/Topic	
Biomechanics of the shoulder (Part 1): loints		Reminder to complete the 'Have your	
Biomechanics of the shoulder (Part 2): Musculature	Chapter 5 (Neumann, 2017)	say' Unit evaluations.	
Week 10 - 20 May 2019			
Module/Topic	Chapter	Events and Submissions/Topic	
Biomechanics of the elbow and forearm Biomechanics of the wrist and hand	Chapters 6, 7 and 8 (Neumann, 2017)	Reminder to complete the 'Have your say' Unit evaluations.	
Week 11 - 27 May 2019			
Module/Topic	Chapter	Events and Submissions/Topic	
Revision	N/A	Reminder to complete the 'Have your say' Unit evaluations.	
Week 12 - 03 Jun 2019			
Module/Topic	Chapter	Events and Submissions/Topic	
		Reminder to complete the 'Have your say' Unit evaluations.	
Assessment and Revision	N/A	End-Term Test Due: Week 12 Wednesday (5 June 2019) 1:00 pm AEST	
Review/Exam Week - 10 Jun 2019			
Module/Topic	Chapter	Events and Submissions/Topic	
Revision and examination preparation.	N/A	The Practical Assessment (30%) to be held in either Exam Week 1 or Exam Week 2. Reminder to complete the 'Have your say' Unit evaluations.	
Exam Week - 17 Jun 2019			
Module/Topic	Chapter	Events and Submissions/Topic	
Revision and examination preparation.	N/A	The Practical Assessment (30%) to be held in either Exam Week 1 or Exam Week 2.	
		Reminder to complete the 'Have your say' Unit evaluations.	

Assessment Tasks

1 Mid-Term Test

Assessment Type

In-class Test(s)

Task Description

The Mid-Term Test is a 1 hour (60 minutes) closed book assessment that will be held on-campus (Bundaberg and Rockhampton only) and delivered online via the Moodle platform. Access to books, notes, websites (other than the examination) and the use of other electronic devices are prohibited during the test. The Mid-Term Test will examine all content covered from weeks 1 to 4, inclusive, including all lectures, practicals and required readings. The test will include some, or all, of the following question types:

- Multiple choice
- True/False
- Word matching
- Fill in the missing word(s)

Short answer/essay

Assessment Due Date

Week 5 Wednesday (10 Apr 2019) 10:00 am AEST

Return Date to Students

Results will be accessible on Moodle within two weeks of the submission date.

Weighting

20%

Assessment Criteria

All guestions will be marked numerically and an overall percentage mark will be awarded.

Referencing Style

• American Psychological Association 6th Edition (APA 6th edition)

Submission

Online

Submission Instructions

The Mid-Term Test will be an online test held on-campus and delivered via the Moodle platform.

Learning Outcomes Assessed

- Demonstrate sound knowledge of structural and functional anatomy in the context of human movement, injury and rehabilitation
- Explain and interpret key biomechanical principles and measurement techniques in the context of human movement, injury and rehabilitation

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

2 Surface Anatomy and Muscle Function

Assessment Type

Practical Assessment

Task Description

The Practical Assessment will evaluate your theoretical knowledge, and practical application, of structural and functional anatomy. The Practical Assessment will last approximately 30 minutes (i.e. 10 min preparation time and 20 min assessment time) and will include two clinical stations (i.e. 10 min per station), each assessed by a different examiner. Clinical Station 1 will assess your ability to perform a safe and accurate surface anatomy palpation assessment of up to five (5) selected anatomical structures. Clinical Station 2 will assess your ability to conduct a safe and accurate clinical assessment of muscle function (e.g. activation, strength, endurance etc.) of up to 2 selected muscle groups using standardised procedures and equipment.

During each clinical station you may also have to:

- Demonstrate theoretical knowledge of structural and functional anatomy, including, but not limited to, the following topics:
 - $\circ\,$ Skeletal muscle names, origins, insertions, actions and innervations.
 - Ligament names, origins, insertions, functions and mechanisms of injury.
 - Peripheral nervous system anatomy, including peripheral nerve paths, spinal root contributions, and motor and sensory innervation zones/patterns.
 - Bone and joint structure and function, including knowledge of joint classification systems, normal and abnormal kinematics, and mechanisms of injury.
- Identify and act upon any precautions and/or contraindications to a clinical assessment.
- Demonstrate knowledge and clinical reasoning in the selection of a clinical assessment.
- Demonstrate clear, effective and thorough communication.
- Demonstrate safe and effective application of a clinical assessment.
- Explain and interpret the findings of a clinical assessment.

All material relevant to musculoskeletal anatomy and biomechanics from any pre-requisite and/or co-requisite unit is also examinable in the Practical Assessment. You need to be appropriately attired in your full clinical uniform for the

assessment. If you are required to be a 'simulated patient' for another student's assessment, please bring additional clothes suitable for a clinical assessment.

Assessment Due Date

Return Date to Students

Final grades will be made available on Moodle within two weeks of completion of the assessment.

Weighting

30%

Assessment Criteria

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

Detailed marking criteria will be available on the unit Moodle site, and will include the following rubric categories and weightings:

- Professional Behaviour and Safety (10%)
- Communication (10%)
- Anatomical and biomechanical knowledge (40%)
- Selection, application and interpretation of assessment (40%)

Referencing Style

American Psychological Association 6th Edition (APA 6th edition)

Submission

No submission method provided.

Learning Outcomes Assessed

- Select, perform and interpret qualitative and/or quantitative assessments of functional anatomy and applied biomechanics relevant to physiotherapy practice
- Demonstrate acceptable professional and ethical behaviours consistent with a physiotherapy practitioner and community leader.

Graduate Attributes

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

3 End-Term Test

Assessment Type

In-class Test(s)

Task Description

The End-Term Test is a 2.5 hour (150 minutes), paper-based, written assessment that will examine all content covered during the term, including lectures, practicals and required readings. The assessment will include short answer/essay questions only. These questions will require you to interpret images and/or clinical scenarios to answer questions that assess your theoretical knowledge of functional anatomy and biomechanics, as well as your observational, analytical and problem-solving skills.

The End-Term Test is a closed book examination that will be held on-campus (Bundaberg and Rockhampton only). Access to books, notes, websites, and the use of other electronic devices, are prohibited during the test.

Assessment Due Date

Week 12 Wednesday (5 June 2019) 1:00 pm AEST

Return Date to Students

Final grades will be published on Moodle within two weeks of completion of the assessment.

Weighting

50%

Minimum mark or grade

A minimum mark of 50% is required to pass this assessment task.

Assessment Criteria

The End-Term Test will be marked manually to provide a numerical score and an overall percentage mark for the assessment item.

Referencing Style

• American Psychological Association 6th Edition (APA 6th edition)

Submission

Offline

Learning Outcomes Assessed

- Demonstrate sound knowledge of structural and functional anatomy in the context of human movement, injury and rehabilitation
- Explain and interpret key biomechanical principles and measurement techniques in the context of human movement, injury and rehabilitation

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

4 Attendance Hurdle

Assessment Type

On-campus Activity

Task Description

A minimum attendance rate of 85% for all scheduled tutorial an practical sessions is required to PASS this unit. This minimum attendance requirement is recommended by the Australian Physiotherapy Council. The monitoring of attendance will take into consideration legitimate requests for absence, such as those outlined in the CQUniversity Assessment Policy and Procedure (Higher Education Coursework) document, and these will not be counted as absence for the purpose of this attendance requirement.

Assessment Due Date

Attendance rate will be determined at the end of term (i.e. Week 12)

Return Date to Students

Attendance rate will be determined at the end of term (i.e. Week 12)

Weighting

Pass/Fail

Minimum mark or grade

In order to be eligible to PASS this unit, you must achieve a PASS for the Attendance Hurdle. To PASS the Attendance Hurdle you must attend at least 85% of all scheduled tutorials/practicals for this unit.

Assessment Criteria

Your attendance at each scheduled practical session will be recorded by the tutor using an attendance spreadsheet. The monitoring of attendance will take into consideration legitimate requests for absence, such as those outlined in the CQUniversity Assessment Policy and Procedure (Higher Education Coursework) document, and these will not be counted as absence for the purpose of this attendance requirement.

Referencing Style

• American Psychological Association 6th Edition (APA 6th edition)

Submission

No submission method provided.

Learning Outcomes Assessed

• Demonstrate acceptable professional and ethical behaviours consistent with a physiotherapy practitioner and community leader.

Graduate Attributes

• 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?



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