

Profile information current as at 03/05/2024 06:21 am

All details in this unit profile for PODI12010 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 comprehensive knowledge in functional anatomy and biomechanics of the lower limb specifically required in the profession of podiatry. A strong focus will be on the integration of anatomical structures and functions and how these both influence, and are influenced by the manner in which the skeletal, muscular, nervous, and circulatory systems work together. You will learn to use biomechanical terminology relating to the lower extremity that describes motion, position and structural abnormality. Theoretical principles, measurement techniques and gait analysis will also be investigated.

# **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

Prerequisites: BMSC11007 Medical Anatomy and Physiology 1, BMSC11008 Medical Anatomy and Physiology 2, NUP

57075 Introduction to Podiatry Practice

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 - 2023

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 Optional 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 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: 30% 2. **Presentation** Weighting: 40%

3. Written Assessment

Weighting: 30%

# 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 SUTE Unit Comment

#### **Feedback**

Classroom location at the library was not ideal as the size was too small and the location of the chairs and tables were too close to the monitor.

#### Recommendation

It is recommended that the lessons be timetabled at a venue with a larger capacity.

# Feedback from SUTE Unit Comment

#### **Feedback**

More instructions and guidance should be provided for the written assessment.

#### Recommendation

It is recommended that detailed instructions and guidance also be provided in written form and uploaded on the Moodle site.

# **Unit Learning Outcomes**

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

- 1. Describe and explain the functional anatomy of all muscle, tendon and joint units of the lower limb
- 2. Interpret the mechanical, physiological and anatomical concepts in the context of human physical performance
- 3. Use the key biomechanical terms and principles relating to the lower extremity, which describe motion, position and/or deformity
- 4. Perform a range of biomechanical assessments using quantitative measurement techniques, including assessment of their validity
- 5. Analyse the gait cycle, its determinants and the related phases of human locomotion.

Learning Outcomes are linked to the Podiatry Board Competency Standards.

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) - 30%	•	•		•			
2 - Presentation - 40%	•	•	•	•	•		
3 - Written Assessment - 30%			•		•		
Alignment of Graduate Attributes to Learning Outcomes  Graduate Attributes  Learning Outcomes							
Graduate Attributes	Learning Outcomes						
	1	2	3	4	5		
1 - Communication	•	•	•	•	•		
2 - Problem Solving	•	•	•	•	•		
3 - Critical Thinking	•	•	•	•	•		
4 - Information Literacy	•	•	•	•	•		
5 - Team Work							
6 - Information Technology Competence	•	•	•	•	•		
7 - Cross Cultural Competence				•			
8 - Ethical practice				•			
9 - Social Innovation							
10 - Aboriginal and Torres Strait Islander Cultures							

Alignment of Learning Outcomes, Assessment and Graduate Attributes

# Textbooks and Resources

# **Textbooks**

PODI12010

#### **Prescribed**

## **Clinical Biomechanics of the Lower Extremities**

(1996)

Authors: Ronald Valmassy

Mosby Elsevier

St Louis , Missouri , USA Binding: Hardcover

# 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 7th Edition (APA 7th edition)</u>

For further information, see the Assessment Tasks.

# **Teaching Contacts**

# Benjamin Peterson Unit Coordinator

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# Schedule

Schedule		
Week 1 - 06 Mar 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Overview of the unit The skeletal system - development, function and repair Review anatomy of the hip and thigh		
Week 2 - 13 Mar 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
The muscular system - development, function and repair Review anatomy of the leg and foot		
Week 3 - 20 Mar 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Kinematic concepts of human movement		
Week 4 - 27 Mar 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>

Kinetic concepts of human movement		
Week 5 - 03 Apr 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Practical session 1: Non weight bearing assessments Hip, knee, ankle joint assessment Subtalar joint, mid-tarsal joint, 1st and 5th rays, metatarso-phalangeal joints assessment		
Vacation Week - 10 Apr 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 17 Apr 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Overview of podiatric biomechanics Foot type classification Assessment 1 - Online Quiz (30% weighting) occurs during tutorial time		Online quiz Due: Week 6 Monday (17 Apr 2023) 11:00 am AEST
Week 7 - 24 Apr 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
The human gait cycle part 1		
Week 8 - 01 May 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
The human gait cycle part 2		
Week 9 - 08 May 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
No week 9 lecture. Student presentations (Assessement 2 - Presentation 40%) will take-place during the lecture time.		<b>Presentation</b> Due: Week 9 Monday (8 May 2023) 5:00 pm AEST
Week 10 - 15 May 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Practical session 2: Weight bearing assessments Neutral & relaxed calcaneal stance positions 2D video gait analyses		
Week 11 - 22 May 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Revision Week		
Week 12 - 29 May 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
No class		<b>Written assessment</b> Due: Week 12 Friday (2 June 2023) 11:59 pm AEST

# Assessment Tasks

# 1 Online quiz

# **Assessment Type**

Online Quiz(zes)

## **Task Description**

The Online Quiz in Week 6 will consist of multiple choice, short and long answer questions and cover content from Weeks 1 - 5.

The quiz will have a time limit of 60 minutes and will be conducted during the tutorial time. The quiz will take place in a computer lab. If a computer lab is not available, the quiz may be conducted as a paper based quiz.

This is a closed book task. Access to books, notes, websites (other than the quiz) and the use of other electronic devices are prohibited during the quiz.

#### **Number of Quizzes**

1

## **Frequency of Quizzes**

Other

#### **Assessment Due Date**

Week 6 Monday (17 Apr 2023) 11:00 am AEST

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

Week 8 Monday (1 May 2023)

#### Weighting

30%

#### **Assessment Criteria**

The assessment will be marked according to a purpose made answer guide designed specifically for this assessment task.

## **Referencing Style**

• American Psychological Association 7th Edition (APA 7th edition)

#### **Submission**

Online

#### **Learning Outcomes Assessed**

- Describe and explain the functional anatomy of all muscle, tendon and joint units of the lower limb
- Interpret the mechanical, physiological and anatomical concepts in the context of human physical performance
- Perform a range of biomechanical assessments using quantitative measurement techniques, including assessment of their validity

# 2 Presentation

# **Assessment Type**

Presentation

#### **Task Description**

This presentation worth 40% can be presented 'live' or as a pre-recorded video and will cover content from Weeks 1-8. The presentation will be no longer than 15 minutes with a 'live' 5-minute of question and answer session at the end. The presentation will be conducted during the lecture/ tutorial time in Week 9.

The topic of the presentation will be provided to you during the term. This is an individual assessment task.

## **Assessment Due Date**

Week 9 Monday (8 May 2023) 5:00 pm AEST

After your presentation, please submit your powerpoint slides or video recording before the due date/ time as evidence of completion of this assessment task.

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

Week 11 Monday (22 May 2023)

# Weighting

40%

#### **Assessment Criteria**

The assessment will be marked according to a marking rubric designed specifically for this assessment task.

The assessment rubric for the oral presentation will be provided to you at the start of term.

If the presentation exceeds the 15 minute time limit, you may opt to complete the presentation but any additional content that is over the time limit will not be assessed by the examiner.

# **Referencing Style**

• American Psychological Association 7th Edition (APA 7th edition)

#### **Submission**

Online

# **Learning Outcomes Assessed**

- Describe and explain the functional anatomy of all muscle, tendon and joint units of the lower limb
- Interpret the mechanical, physiological and anatomical concepts in the context of human physical performance
- Use the key biomechanical terms and principles relating to the lower extremity, which describe motion, position and/or deformity
- Perform a range of biomechanical assessments using quantitative measurement techniques, including assessment of their validity
- Analyse the gait cycle, its determinants and the related phases of human locomotion.

# 3 Written assessment

#### **Assessment Type**

Written Assessment

### **Task Description**

This written assessment worth 30% will consist of a report of an analysis of walking gait.

The details of the requirements of this written assessment will be provided to you at the start of the term. This is an individual assessment task.

#### **Assessment Due Date**

Week 12 Friday (2 June 2023) 11:59 pm AEST Submission via moodle

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

Marks for this final assessment will be made available at the time of certification of grades.

#### Weighting

30%

#### **Assessment Criteria**

The written assessment will be marked according to a purpose made marking rubric for this assessment task. The marking rubric will be made available to you at the start of the term. Your written assessment must include:

- A cover page which includes assessment title, student's name and number, Unit Coordinators name, course code and title, due date.
- The gait analysis report and responses to questions related to podiatric biomechanical principles.
- Referencing (if any) should follow APA format. Please also ensure that each page of your report has a page
  number and your student number. The text should be in Size 12 Arial font, 1.5 cm spacing with 2 cm page
  margins. All tables and figures must be labelled and referenced appropriately in the text.

## **Referencing Style**

American Psychological Association 7th Edition (APA 7th edition)

#### **Submission**

Online

# **Submission Instructions**

Submission via moodle

## **Learning Outcomes Assessed**

- Use the key biomechanical terms and principles relating to the lower extremity, which describe motion, position and/or deformity
- Analyse the gait cycle, its determinants and the related phases of human locomotion.

# **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