



PODI13008 *Clinical Biomechanics of the Lower Limb*

Term 1 - 2021

Profile information current as at 27/04/2024 03:37 am

All details in this unit profile for PODI13008 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

In this unit you will be presented with common structural and functional variations of the lower limb as seen in podiatry practice. You will learn the aetiology, clinical diagnosis and management of common orthopaedic lower limb conditions. You will refine and develop your knowledge and skills in clinical gait analysis and biomechanical assessment which will be used to assess and diagnose biomechanical conditions of the lower limb. This will incorporate various motion analysis devices and medical equipment in the assessment and treatment of biomechanical conditions in a podiatric context.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Prerequisites: PODI12010 Advanced Anatomy and Podiatric Biomechanics. To be enrolled in this unit, students must be enrolled in CB86 Bachelor of Podiatry Practice (Honours) course. Co-requisites: PODI13007 Podiatry Clinical Practice 2 and PODI13010 Sports in 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 - 2021

- Rockhampton
- Sydney

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. **Presentation**

Weighting: 30%

2. **Written Assessment**

Weighting: 50%

3. **Professional Practice Placement**

Weighting: Pass/Fail

4. **On-campus Activity**

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 Student Evaluation Survey

Feedback

Students found the lecture slides very clear, concise and not too wordy.

Recommendation

It is recommended that lecture slides should be updated each year to incorporate any recent developments in the field. Regular updates of lecture content and teaching resources should continue.

Feedback from Student Evaluation Survey

Feedback

Students found the weekly videos demonstrating clinical assessments were helpful in reinforcing concepts that were learnt during class.

Recommendation

It is recommended that even when practical classes resume to 'on-campus', these video learning resources should still be made available to students for the purpose of revision. Teaching staff should continue to offer relevant and updated practical videos in this unit.

Unit Learning Outcomes

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

1. Assess podiatric cases involving clinical biomechanics of the lower limb, and interpret and analyse findings
2. Develop, implement, and evaluate podiatric interventions for patients with common biomechanical pathologies of the lower limb
3. Evaluate peer reviewed biomechanical literature to support decision making in podiatry practice.

Per NPC1304

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Written Assessment - 50%			•
2 - Professional Practice Placement - 0%	•	•	
3 - On-campus Activity - 20%	•		
4 - Presentation - 30%		•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
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 - Written Assessment - 50%	•	•	•	•		•				
2 - Professional Practice Placement - 0%	•	•	•	•	•		•	•		
3 - On-campus Activity - 20%	•	•	•	•	•					
4 - Presentation - 30%		•	•	•		•				

Textbooks and Resources

Textbooks

PODI13008

Prescribed

Clinical Biomechanics of the Lower Extremities

Edition: First

Authors: Ronald L. Valmassy

Mosby

ISBN: 9780801679865

Binding: Hardcover

PODI13008

Supplementary

Whittle's Gait Analysis

Edition: Fifth

Authors: David Levine, Jim Richards, Michael W Whittle

Churchill Livingstone Elsevier

ISBN: 9780702042652

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)

Referencing Style

All submissions for this unit must use the referencing style: [American Psychological Association 7th Edition \(APA 7th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Malia Ho Unit Coordinator

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Schedule

Week 1 - 08 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Overview of PODI13008 Revise biomechanical concepts of PODI12010 Introduction to CQUniversity Health Clinic Biomechanical Assessment Form		

Week 2: - 15 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics and pathomechanics of the foot (Part 1)		

Week 3 - 22 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics and pathomechanics of the foot (Part 2)		

Week 4 - 29 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Biomechanics and pathomechanics of the lower limb		

Week 5 - 05 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Presentation (30%)		Presentation Due: Week 5 Tuesday (6 Apr 2021) 11:59 pm AEST

Vacation Week - 12 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 19 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Dynamic and gait analysis (Part 1)		

Week 7 - 26 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Dynamic and gait analysis (Part 2)		

Week 8 - 03 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Biomechanical Assessment Review		

Week 9 - 10 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Class test Review		

Week 10 - 17 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Written assessment (class test) (50%)		Class test Due: Week 10 Tuesday (18 May 2021) 12:00 pm AEST On-campus activity Due: Week 10 Tuesday (18 May 2021) 11:59 pm AEST

Week 11: Biomechanical Placement Day 1 - 24 May 2021

Module/Topic	Chapter	Events and Submissions/Topic

Week 12: Biomechanical Placement Day 2 - 31 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
		Biomechanical Clinical Placement Due: Week 12 Tuesday (1 June 2021) 11:59 pm AEST

Review/Exam Week - 07 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 14 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Attendance: As per the University's recommendation that "All on-campus students are expected to attend scheduled classes," students should also be aware that there is clear evidence to show that attendance rates are directly related to academic progress. It is therefore in your best interest and strongly recommended in the Bachelor of Podiatry Practice (Honours) course, that you attend all scheduled learning activities to support your learning.

Uniform: In all clinical placement sessions classes, students are required to wear the mandatory clinical uniform.

Assessment Tasks

1 Presentation

Assessment Type

Presentation

Task Description

You will be required to provide a Powerpoint oral presentation worth 30% covering content covered from Weeks 1-4. All students will be required to select a topic of choice from a list of topics. The list of topics of the oral presentation will be made available at the beginning of term. The topic will be discussed and finalised with your lecturer at the beginning of the term. The oral presentation will be 10 minutes long with a Question and Answer session of 3 minutes. This is an individual assessment task so although you are allowed to work with a partner to prepare for the presentation, the final submission has to be an individual effort.

Referencing (if any) should follow APA format.

Assessment Due Date

Week 5 Tuesday (6 Apr 2021) 11:59 pm AEST

You are required to submit your powerpoint presentation online after your presentation.

Return Date to Students

Week 6 Tuesday (20 Apr 2021)

Weighting

30%

Assessment Criteria

The assessment will be marked according to a marking rubric designed specifically for this assessment task. The assessment rubric will be made available to you at the beginning of the term.

If the presentation exceeds the **10 minute** time limit, students 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

- Develop, implement, and evaluate podiatric interventions for patients with common biomechanical pathologies of the lower limb
- Evaluate peer reviewed biomechanical literature to support decision making in podiatry practice.

Graduate Attributes

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

2 Class test

Assessment Type

Written Assessment

Task Description

The written assessment (50%) will be in a form of a **closed book** class test covering content from Week 1- 9. Students will be required to attend on-campus to complete this class test. The class test will be 120 minutes long.

Assessment Due Date

Week 10 Tuesday (18 May 2021) 12:00 pm AEST

Return Date to Students

Week 12 Tuesday (1 June 2021)

Weighting

50%

Assessment Criteria

The class test will assess all content covered from Weeks 1-9. Students must demonstrate that they have a firm grasp of biomechanical concepts and assessments in a clinical setting, and the mechanics of the pathological foot commonly seen in a clinical setting.

You will be provided with sample questions during the term to prepare you for the class test.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

Submission

Offline

Learning Outcomes Assessed

- Evaluate peer reviewed biomechanical literature to support decision making in podiatry practice.

Graduate Attributes

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

3 Biomechanical Clinical Placement

Assessment Type

Professional Practice Placement

Task Description

This clinical placement will take place over 2 Tuesdays in Week 11 and Week 12. You will be required to competently conduct all assessments found in the CQUniversity Health Clinic Biomechanical Assessment Form.

The placement will occur at the CQUniversity Health Clinic of your respective campus and will start at 8:00 am, and end at 5:00 pm.

Assessment Due Date

Week 12 Tuesday (1 June 2021) 11:59 pm AEST

Upon successful completion of Day 2 of your clinical placement, you will be required to upload your clinical placement log book on your Moodle site.

Return Date to Students

Week 12 Tuesday (1 June 2021)

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Your completion of this assessment task will be based on an assessment criteria found in your Biomechanical Placement Log Book, which will be made available to you at the beginning of term.

You must pass all components of the placement to successfully pass this assessment task.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

Submission

Online

Learning Outcomes Assessed

- Assess podiatric cases involving clinical biomechanics of the lower limb, and interpret and analyse findings
- Develop, implement, and evaluate podiatric interventions for patients with common biomechanical pathologies of the lower limb

Graduate Attributes

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

4 On-campus activity

Assessment Type

On-campus Activity

Task Description

You will be expected to complete a series of compulsory competency tasks that forms part of an on-campus activity checklist.

The on-campus activity checklist will be made available to you at the start of term. Each task will be completed during tutorial sessions and you will be awarded marks accordingly for each completed task. More details and information regarding the on campus activities will be made available at the start of term.

Assessment Due Date

Week 10 Tuesday (18 May 2021) 11:59 pm AEST

Return Date to Students**Weighting**

20%

Assessment Criteria

You will be required to complete a check list of tasks from the CQUniversity Biomechanical Assessment Form. This assessment task will occur during tutorial sessions during the term. Marks will be awarded accordingly for successful completion completion of the tasks.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

Submission

Online

Submission Instructions

On-campus activity checklists are to be uploaded on your Moodle site upon completion.

Learning Outcomes Assessed

- Assess podiatric cases involving clinical biomechanics of the lower limb, and interpret and analyse findings

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work

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