PODI13008 *Clinical Biomechanics of the Lower Limb*
Term 1 - 2017

Profile information current as at 03/05/2024 01:49 pm

General Information

Overview
This unit will focus on the commonly presented primary structural and functional abnormalities of the foot as seen in podiatry practice. The students will examine the aetiology, clinical diagnosis and management of common orthopaedic foot and ankle problems. Clinical gait analysis will be used to assess and diagnose dysfunction of the foot. Students will develop a treatment plan following assessment of lower limb mechanics. This unit will also examine the use of various lower extremity foot devices in the treatment of biomechanical abnormalities.

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
Pre-requisites: PODI12010 Advanced Anatomy and Podiatric Biomechanics. Co-requisite: PODI13007 Podiatry Clinical Practice 2.
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 - 2017
- 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. **Written Assessment**
Weighting: 50%
2. **Professional Practice Placement**
Weighting: Pass/Fail
3. **Examination**
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 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 feedback and self evaluation

Feedback

Seperate sessions for Clinical biomechanics and Sports Podiatry requested.

Recommendation

Ensure this is possible through timetabling.

Unit Learning Outcomes

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

1. Analyse how variations from the 'norm' play a role in the development of lower limb pathological conditions.
2. Identify pathological conditions associated with gait disorders.
3. Apply advanced biomechanical testing of the foot and lower limb, including neuromuscular examination and gait analysis.
4. Select appropriate podiatric interventions in the management of common pathological foot conditions.
5. Evaluate best practice evidence to support learning and decision making in the clinical context.

Per NPC1304

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level ◦ Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Written Assessment - 50%	•	•	•	•	•
2 - Examination - 50%	•	•	•	•	•
3 - Professional Practice Placement - 0%	•	•	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving	•	•	•	•	•

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - Examination - 50%	•	•	•	•				•		
3 - Professional Practice Placement - 0%	•	•	•	•	•	•	•	•		

Textbooks and Resources

Textbooks

PODI13008

Prescribed

Whittle's Gait Analysis
5th edition (2012)
Authors: David Levine; Jim Richards; Michael W. Whittle
Churchill Livingstone
United Kingdom
ISBN: 9780702042652
Binding: Hardcover

Additional Textbook Information
Currently in print and available to order online at the CQUni Bookshop here: http://bookshop.cqu.edu.au

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 6th Edition (APA 6th edition)
For further information, see the Assessment Tasks.

Teaching Contacts

Laura Hutchison Unit Coordinator
l.hutchison@cqu.edu.au

Schedule

Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Review of 'normal' gait during walking and introduction to running gait	Appropriate reading chapters and other resources relevant to each week will be discussed during term time and posted in Moodle.	

Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Gait analysis techniques		

Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Pathological gait		

Week 4 - 27 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Forefoot pathologies in podiatric biomechanics		

Week 5 - 03 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Midfoot pathologies in podiatric biomechanics		

Vacation Week - 10 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 17 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Rearfoot pathologies in podiatric biomechanics		

Week 7 - 24 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Ankle pathologies in podiatric biomechanics		

Week 8 - 01 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Knee and hip pathologies in podiatric biomechanics		**Written Assessment** Due: Week 8 Friday (5 May 2017) 11:45 pm AEST

Week 9 - 08 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Traditional and contemporary theories in podiatric biomechanics		

Week 10 - 15 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Clinical placement for Clinical Biomechanics		

Week 11 - 22 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Clinical placement for Clinical Biomechanics		

Week 12 - 29 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Review		

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

Term Specific Information

Placement:
Clinical placement (16 hours total). Placements have been provisionally scheduled to run in weeks 10 and 11. Please note that these clinical weeks may be subject to change. Notice will be provided by the Unit Coordinator.
Clinical placement is compulsory requiring 100 % attendance rate. Students must show evidence that they have met all the pre-clinical placement requirements prior to commencing placement. All students are required to wear during clinical placement the approved CQUniversity podiatry uniform and to project a professional image at all times. Please refer to the Podiatry Course Handbooks for further information related to placement.
Additional Lecture:
An additional lecture for this unit will be scheduled during week 8 of term. Specific information regarding date, time and location will be provided at the beginning of term.

Assessment Tasks

1 Written Assessment

Assessment Type
Written Assessment

Task Description
You will be required to undertake a review of the literature (2000 words) in order to establish the current knowledge of a particular topic specific to the field of podiatric biomechanics. The topic will be made available in Moode at the beginning of term. Your literature review must be structured like an academic essay and include an introduction, body and conclusion. The introduction should identify the topic and its significance and the objective of your literature review. The body of your review should be broken into key themes found in relation to the topic rather than addressing each source separately. It should also address certain trends and areas of agreement or disagreement between sources. You should be aware of the quality of your sources and provide comment regarding this. The conclusion should provide a summary of your findings and suggestions for future research if appropriate.

Assessment Due Date
Week 8 Friday (5 May 2017) 11:45 pm AEST

Return Date to Students
Week 11 Friday (26 May 2017)

Weighting
50%

Assessment Criteria
The marking sheet and rubric will be made available under the 'assessment' link in Moodle.

Referencing Style

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

Submission
Online

Learning Outcomes Assessed

- Analyse how variations from the ‘norm’ play a role in the development of lower limb pathological conditions.
- Identify pathological conditions associated with gait disorders.
- Apply advanced biomechanical testing of the foot and lower limb, including neuromuscular examination and gait analysis.
- Select appropriate podiatric interventions in the management of common pathological foot conditions.
- Evaluate best practice evidence to support learning and decision making in the clinical context.

Graduate Attributes

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

2 Placement

Assessment Type
Professional Practice Placement

Task Description
This course has a mandatory 16 hours of clinical placement. Placements have been provisionally scheduled to run in weeks 10 and 11. Please note that these clinical weeks may be subject to change. Notice will be provided by the Unit Coordinator. This is a separate clinical placement requirement specific to this course only and does not replace or substitute the clinical hours required as part of PODI13007 Podiatry Clinical Practice 2.

Assessment Due Date

Placement documents to be completed and submitted at the end of placement.

Return Date to Students

Placement documents will be returned to the student once completed and marked by the Unit Coordinator.

Weighting
Pass/Fail

Assessment Criteria
Students will be required to demonstrate competence in podiatric clinical assessment and management associated with biomechanics for this 16 hour internal clinical placement. It will be a requisite for each student to meet the criteria for all clinical activities outlined in the associated log book specific to this placement. The log book must be handed in to the Course Coordinator on the last day of the allocated placement.

Referencing Style

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

Submission
Offline

Learning Outcomes Assessed

- Analyse how variations from the ‘norm’ play a role in the development of lower limb pathological conditions.
- Identify pathological conditions associated with gait disorders.

- Apply advanced biomechanical testing of the foot and lower limb, including neuromuscular examination and gait analysis.
- Select appropriate podiatric interventions in the management of common pathological foot conditions.
- Evaluate best practice evidence to support learning and decision making in the clinical context.

Graduate Attributes

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

Examination

Outline
Complete an invigilated examination.

Date
During the examination period at a CQUniversity examination centre.

Weighting
50%

Length
180 minutes

Exam Conditions
Closed Book.

Materials
No calculators permitted
Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

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