

Profile information current as at 04/05/2024 04:15 am

All details in this unit profile for MEDS20010 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 is an introduction to the theory and practice of basic soft tissue ultrasound imaging and is appropriate for science graduates and allied health / medical professionals wishing to use ultrasound as a focused diagnostic tool at the point of care. The unit will interest students engaged in, or studying towards, managing soft tissue injury and pathology, and is also useful to anyone who has interest in musculoskeletal imaging. You will develop knowledge of musculoskeletal ultrasound with emphasis on interpretation of anatomical structures, biomechanics, and pathology. You will study a range of anatomical structures and pathology which can mimic musculoskeletal conditions.

Details

Career Level: Postgraduate

Unit Level: Level 8 Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Co-requisite: MEDS20009 Science and Instrumentation of Ultrasound

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 Procedure (Higher Education Coursework)</u>.

Offerings For Term 1 - 2018

Distance

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 Postgraduate 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 Test
 Weighting: Pass/Fail
 Written Assessment
 Weighting: Pass/Fail

Assessment Grading

This is a pass/fail (non-graded) unit. To pass the unit, you must pass all of the individual assessment tasks shown in the table above.

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 <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 student feedback

Feedback

Great information provided in lectures with practical applications which helped with learning and understanding.

Recommendation

Continue to provide in-depth lectures as a learning resource.

Feedback from student feedback

Feedback

Assistance with written assessment and obtaining feedback prior to submission was beneficial.

Recommendation

Continue to provide assistance with e-poster prior to submission.

Feedback from student feedback

Feedback

Email support and support in zoom tutorial sessions was beneficial

Recommendation

continue to provide email support, as well as support in zoom tutorial sessions.

Unit Learning Outcomes

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

- 1. Describe general anatomy, biomechanics and pathophysiology of the musculoskeletal system and related structures
- 2. Differentiate normal and simple abnormal ultrasound appearance of the musculoskeletal system and related structures
- 3. Differentiate ultrasound appearance of the musculoskeletal system from anatomical structures and pathology of other body systems
- 4. Interpret static and dynamic diagnostic ultrasound images to provide a provisional differential diagnosis.

This unit will not require external accreditation but will apply to appropriate profession specific bodies for recognition for Continuing Professional Development (CPD) related to Basic Soft Tissue Ultrasound.

Level Level Level Level	Level	Level							
Alignment of Assessment Tasks to Lea									
Assessment Tasks	Lea	Learning Outcomes							
		1	2		3	}	4		
1 - Online Test - 0%		•	•		•	ı	•		
2 - Written Assessment - 0%					•	1	•		
Alignment of Graduate Attributes to Le	arning Outcor	nes							
Graduate Attributes			Learning Outcomes						
			1	2		3	4		
1 - Knowledge			۰	o		۰	۰		
2 - Communication			0	o			۰		
3 - Cognitive, technical and creative skills			0	o			۰		
4 - Research									
5 - Self-management							o		
6 - Ethical and Professional Responsibility									
7 - Leadership									
8 - Aboriginal and Torres Strait Islander Cultures									
Alignment of Assessment Tasks to Gra	duate Attribut	es							
Assessment Tasks	Gra	Graduate Attributes							
	1	2	3	4	5	6	7		
1 - Online Test - 0%	0	۰	o						

Textbooks and Resources

Textbooks

There are no required textbooks.

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 styles below:

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

For further information, see the Assessment Tasks.

Teaching Contacts

Michael Borg Unit Coordinator

m.borg@cqu.edu.au

Schedule

Week 1 - 05 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Introduction and Information about Assessment items	Lectures and notes on Moodle site.	Zoom collaborate Monday Week 1 at 7 pm (Australian Eastern Standard Time) AEST. During which times future Zoom sessions will be determined.
Week 2 - 12 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Radiologic and sonographic terminology and technical requirements	Chapter 1 prescribed text. Prescribed text available from the library (digital copy). Prescribed Textbook Ultrasound of the Musculoskeletal System 1 (2207) Authors: Stefano Bianchi and Carlo Martinoli Springer-Verlag Berlin Heidelberg New York, New York, USA ISBN ISBN-13:978-3540422679 Additional readings and lectures on Moodle site.	Zoom collaborate Monday (time to be determined based on student feedback from week 1 Zoom collaborate).
Week 3 - 19 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic

Skin and subcutaneous structures	Chapter 2 prescribed text. Prescribed text available from the library (digital copy) Additional readings and lectures on Moodle site.	No Zoom collaborate.	
Week 4 - 26 Mar 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Muscles and Fascia	Chapter 3 prescribed text. Prescribed text available from the library (digital copy) Additional readings and lectures on Moodle site.	Zoom collaborate Monday (time to be determined based on student feedback from week 1 Zoom collaborate).	
Week 5 - 02 Apr 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Tendons, sheaths and retinacula	Chapter 3 prescribed text. Prescribed text available from the library (digital copy) Additional readings and lectures on Moodle site.	Zoom Collaborate Monday (time to be determined based on student feedback from week 1 Zoom collaborate).	
Vacation Week - 09 Apr 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Week 6 - 16 Apr 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Bursa and fat pads	Lectures and notes on Moodle site.	No Zoom collaborate.	
Week 7 - 23 Apr 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Nerves and Vessels	Chapter 4 prescribed text. Prescribed text available from the library (digital copy) Additional readings and lectures on Moodle site.	Zoom collaborate Monday (time to be determined based on student feedback from week 1 Zoom collaborate).	
Week 8 - 30 Apr 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Ligaments	Lectures and notes on Moodle site.	Zoom collaborate Monday (time to be determined based on student feedback from week 1 Zoom collaborate). Written Assessment - e-poster due Monday 30th April 10:00 am (AEST).	
Week 9 - 07 May 2018			
Module/Topic	Chapter Chapter 5 prescribed text. Prescribed	Events and Submissions/Topic	
Bones and joints	text available from the library (digital copy) Additional readings and lectures on Moodle site.	No Zoom collaborate.	
Week 10 - 14 May 2018			
Module/Topic	Chapter	Events and Submissions/Topic	
Soft tissue characterization.	Lectures and notes on Moodle site.	No Zoom collaborate.	
Week 11 - 21 May 2018			
Module/Topic	Chapter	Events and Submissions/Topic	

Chapter 18 of prescribed text. Zoom Collaborate Monday (time to be Prescribed text available from the determined based on student Interventional techniques library (digital copy) feedback from week 1 Zoom Additional readings and lectures on collaborate). Moodle site. Week 12 - 28 May 2018 Module/Topic Chapter **Events and Submissions/Topic** Online test open Monday 28th May Revision and online test 2018 9:00 am AEST. Review/Exam Week - 04 Jun 2018 Module/Topic Chapter **Events and Submissions/Topic** Online test closes on Monday 4th June 2018 12:00 pm AEST.

Term Specific Information

Exam Week - 11 Jun 2018

Module/Topic

The Unit co-ordinator for this unit Is **Michael Borg**. During the term i maybe teaching or off campus and for this reason the preferred method of initial contact is via email **m.borg@cqu.edu.au**.

My office number is **03 9616 0658**.

Events and Submissions/Topic

Chapter

Prescribed Textbook

Ultrasound of the Musculoskeletal System 1 (2207) Authors: Stefano Bianchi and Carlo Martinoli Springer-Verlag Berlin Heidelberg New York, New York, USA ISBN ISBN-13:978-3540422679 Digital copies will be made available through the Library.

Additional Textbook information

Prescribed text for MEDS20010 will be used as the only prescribed text for MEDS20011 and MEDS20012.

Assessment Tasks

1 Online Test

Assessment Type

Online Test

Task Description

An online test will be conducted to assess your understanding of the unit content. This test must be accessed through the assessment tab on Moodle and will comprise 10 questions which will require written answers. The test will be open for 1.5 hours (allowing 9 minutes per question) with only one attempt being allowed. Once started the test cannot be paused, stopped, re-started or re-taken. Questions will be drawn from a pool of questions to allow tests to be different for each student. Image viewing questions may be included and you are required to be familiar with normal and pathological sonographic imaging of the areas discussed in this unit. The test will be open from the Monday of week 12 (28th May) at 9 am (AEST) and will close on Monday 4th June at 12:00 pm (AEST). You will need to allocate a 90 minute period throughout the time the test is open in order to complete the test. Please note: You MUST start the test before 10:30 am (AEST) on Monday the 4th June as the test will automatically close at 12:00 pm (AEST) Monday the 4th June.

Assessment Due Date

The online test will be automatically uploaded at the completion of the test or once the time limit is reached, whichever occurs first.

Return Date to Students

Results will be posted in the Unit Moodle site.

Weighting

Pass/Fail

Minimum mark or grade

50%

Assessment Criteria

On-line test responses will be assessed on the basis of;

1/ Is your answer correct?

2/ Is your answer sufficiently detailed to demonstrate your understanding of the concepts and terminology explored throughout the unit?

Referencing Style

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

Submission

Online

Submission Instructions

Test will be online, accessed through the assessment tab on Moodle and will comprise 10 questions requiring answers. Test will be open for 1.5 hours and once started cannot be paused or retaken. Submission will be automatic when the time limit is reached or once all questions have been aswered.

Learning Outcomes Assessed

- Describe general anatomy, biomechanics and pathophysiology of the musculoskeletal system and related structures
- Differentiate normal and simple abnormal ultrasound appearance of the musculoskeletal system and related structures
- Differentiate ultrasound appearance of the musculoskeletal system from anatomical structures and pathology of other body systems
- Interpret static and dynamic diagnostic ultrasound images to provide a provisional differential diagnosis.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills

2 Written Assessment - e-poster

Assessment Type

Written Assessment

Task Description

An educational e-poster that clearly presents the use of ultrasound to examine a specific musculoskeletal (MSK) structure or area is to be developed. The presentation must be limited to eight (8) slides with the title and reference slides being in addition to this. An abstract is required to accompany the e-poster, but not be included within the poster. The e-poster should be written at a level suitable for presentation at a conference. You must state which conference you would intend it to be presented to (nominate your intended audience). The first slide should be the title slide which should contain the title of the presentation, your name and qualifications. Each content slide should have clear headings and be presented in a logical, clear and visually appealing fashion. The area outlined in the poster should be clinically relevant to the practice of musculoskeletal sonography. The anatomy, sonographic appearance of normal and abnormal structures, and a discussion of why the examination may be undertaken along with the pathology that may be encountered in the region should be discussed. You are required to have researched, analysed, critically reflected on and synthesized current (less than 10 yrs post publication) medical literature from peer reviewed sources. A high level of communication skills needs to be utilized to convey a clear message with all anatomical drawings being of high quality and well labelled. Please note all slides are required to be in 'landscape' format.

Assessment Due Date

Week 8 Monday 30th April 10:00 am (AEST)

Return Date to Students

Results and feedback will be posted on the unit Moodle site.

Weighting

Pass/Fail

Minimum mark or grade

50%

Assessment Criteria

Your e-poster will be assessed on: Academic writing - The e-poster should contain organized, logical and coherent content with a clear and concise message. It should be proof read and edited ensuring accurate spelling, grammar and appropriate vocabulary for the target audience. Content of e-Poster - the purpose of the paper should be clear and relevant to the field of musculoskeletal sonography. The anatomy, sonographic appearance and pathophysiology of a particular structure or tissue should be presented with diagrams and images used to support the discussion. Evidence based content must be used. Suitability for presentation - The e-Poster should be suitable for presentation at the chosen conference and the subject matter relevant to the selected audience. Referencing - In-text references and the reference list must be all accurate, complete and in the correct APA or Vancouver style with high quality and appropriate sources utilized. The marking rubric to be used for this assessment is available on Moodle. You need to obtain a minimum of 50% in the e-poster to pass the unit.

Referencing Style

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

Submission

Online

Submission Instructions

Online via unit Moodle site.

Learning Outcomes Assessed

- Differentiate ultrasound appearance of the musculoskeletal system from anatomical structures and pathology of other body systems
- Interpret static and dynamic diagnostic ultrasound images to provide a provisional differential diagnosis.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Self-management

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