



# MEDS13007 *Musculoskeletal Sonography*

## Term 1 - 2017

Profile information current as at 02/05/2024 01:26 pm

All details in this unit profile for MEDS13007 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 introduces you to musculoskeletal ultrasound. In the unit you will acquire knowledge of the anatomy, pathophysiology, sonographic appearance, scanning protocols and techniques relevant to the musculoskeletal system. You will demonstrate problem solving strategies to formulate differential diagnoses and produce a sonographic report. You will plan for the provision of safe and ethical patient care.

#### 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: MEDS12001 Physics of Ultrasound AND MEDS12003 Superficial Structures in 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 [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

#### Offerings For Term 1 - 2017

- Brisbane
- Mackay
- Melbourne
- 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: 40%

#### 2. **Examination**

Weighting: 60%

### 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.

**Feedback**

Unit lacking a practical scanning component.

**Recommendation**

While access to the sonography lab is limited due to second and third year requirements. A small practical component will be introduced into the unit next year.

**Action**

For 2017 access to sonography lab was not feasible. However, for 2018 delivery access to sonography lab has been arranged for the unit. This will enable students to spend a day engaged in hands-on musculoskeletal scanning under the guidance of an experienced sonography tutor.

#### Feedback from Student feedback.

**Feedback**

Some students felt that the assignment task did not aid their learning.

**Recommendation**

Communicate more clearly to the students the need for units to assist them not just in their current unit but in preparing them for future study.

**Action**

More guidance related to assignment expectations provided in the Zoom collaborate session, assignment examples and marking rubric explained.

#### Feedback from Student feedback.

**Feedback**

Unit too content heavy.

**Recommendation**

Revision of eCourse profile to emphasise the need for students to attend the weekly Blackboard Collaborate sessions. In this way students will gain a better understanding of the material and essential concepts related to the unit.

**Action**

Some lectures re-recorded to focus on core knowledge only. More guidance provided to students in relation to key weekly learning goals. Emphasis again placed in week one welcome talk in relation to Zoom attendance.

## Unit Learning Outcomes

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

1. Describe musculoskeletal anatomy and body mechanics.
2. Differentiate the variance of normal and abnormal sonographic appearances of the musculoskeletal system.
3. Describe sonographic techniques and protocols appropriate to musculoskeletal ultrasound.
4. Analyse clinical scenarios to provide a differential diagnosis and produce a sonographic report.
5. Formulate strategies for the provision of safe and ethical patient care.

The learning outcomes for this unit have been linked to:

ASAR Required Graduate Competency Outcomes for General Sonography Accreditation Standards 1.2.

1,2,3,4, 5 and 9

## Alignment of Learning Outcomes, Assessment and Graduate Attributes

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Written Assessment - 40%	•	•	•	•	•
2 - Examination - 60%	•	•	•	•	•

### Alignment of Graduate Attributes to 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 Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 40%	•	•	•	•			•	•		
2 - Examination - 60%	•	•		•				•		

## Textbooks and Resources

### Textbooks

MEDS13007

#### Prescribed

#### Fundamentals of Musculoskeletal Ultrasound

Edition: 2 (2013)

Authors: Jon A. Jacobson

Elsevier

Philadelphia , Philadelphia , USA

ISBN: 978-1-4557-3818-2

Binding: Paperback

#### Additional Textbook Information

This book is also available as an e-book from Elsevier and can be downloaded from their website.

eBook ISBN : 9781455738236 . Students can follow this link

<http://store.elsevier.com/Fundamentals-of-Musculoskeletal-Ultrasound/Jon-Jacobson/isbn-9781455738182/>

Please note the first two chapters of this textbook are only available through the ExpertConsult.com web site. To gain access to this site you must use the code printed inside the textbook. This code is non-transferable so please do not purchase second hand copies of this text.

This book can also be purchased through the CQUniversity Bookshop.

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

#### You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- A-S-A online articles (You are required to become a student member of A-S-A, this is free)

## 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

**Brendan Goode** Unit Coordinator

[b.goode@cqu.edu.au](mailto:b.goode@cqu.edu.au)

## Schedule

### Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 1: The basics of Musculoskeletal Ultrasound	Jacobson Chapter 1 - Please note chapters 1 and 2 of Jacobson are available as an online resource only.	Practice Quiz 1 Zoom collaborate session to be held on Thursday at 11:30 am Queensland time which for those in the southern states is 12:30 pm.

### Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Week 2:Common Pathologies	Jacobson Chapter 2 - Please note chapters 1 and 2 of Jacobson are available as an online resource only.	Practice Quiz 2 Zoom collaborate session to be held on Thursday at 11:30 am Queensland time which for those in the southern states is 12:30 pm.
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### Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 3: The Shoulder	Jacobson Chapter 3	Practice Quiz 3. Zoom collaborate session to be held on Thursday at 11:30 am Queensland time which for those in the southern states is 12:30 pm.

### Week 4 - 27 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 4:The Elbow	Jacobson Chapter 4	Practice Quiz 4. Zoom collaborate session to be held on Thursday at 11:30 am Queensland time which for those in the southern states is 12:30 pm. Note final week of Daylight Savings Times.

### Week 5 - 03 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 5: The Wrist part 1	Jacobson Chapter 5	Images of various abnormalities/pathological conditions as they relate to M.S.K sonography for you to try and diagnose. Zoom collaborate session to be held on Thursday a 11:30 am for all states due to Daylight Savings Finishing.

### Vacation Week - 10 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 17 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 6:The Wrist part 2	Jacobson Chapter 5	Practice Quiz 5 Zoom collaborate session to be held on Thursday at 11:30 am.

### Week 7 - 24 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 7:The Ankle	Jacobson Chapter 8,	Practice Quiz 6. Zoom collaborate session to be held on Thursday at 11:30 am . Assignment due Wednesday.  <b>Written Assessment</b> Due: Week 7 Wednesday (26 Apr 2017) 1:00 pm AEST

### Week 8 - 01 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Week 8:The Knee	Jacobson Chapter 7	Practice Quiz 7. Zoom collaborate session to be held on Thursday at 11:30 am .

### Week 9 - 08 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Week 9:The Hip and Thigh	Jacobson Chapter 6	Practice Quiz 8. Zoom collaborate session to be held on Thursday at 11:30 am .
<b>Week 10 - 15 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Week 10: Hernias	Jacobson Chapter 6.	Practice Quiz 9. Zoom collaborate session to be held on Thursday at 11:30 am .
<b>Week 11 - 22 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Week 11: Interventional techniques	Jacobson Chapter 11	Practice Quiz 10. Zoom collaborate session to be held on Thursday at 11:30 am .
<b>Week 12 - 29 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Week 12 - No prescribed material (Revision for exam)	Revise Practice Quizzes.	Zoom collaborate session to be held on Thursday at 11:30 am -Q&A session about the end of term examination.
<b>Review/Exam Week - 05 Jun 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
<b>Exam Week - 12 Jun 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>

## Assessment Tasks

### 1 Written Assessment

#### Assessment Type

Written Assessment

#### Task Description

##### Structure

This assessment activity requires you to produce a written and image-based assignment. Format should utilize the **PowerPoint Poster** option available in Microsoft PowerPoint and depict a musculoskeletal condition presented in weeks 2 to 6 from the course Moodle site.

##### Purpose

This activity is intended to provide you with experience in researching and depicting a clinical condition that you may be challenged with in the field of musculoskeletal sonography in a succinct, accurate and visually appealing manner.

##### Value

The visual aspect of the sonographic profession is extremely important. Your assessment will be instrumental in demonstrating that you have the skills and understanding to combine theoretical knowledge and present it in a visually appealing, accurate and succinct fashion.

##### Please Note

- 1000 words +/-10% not including references (An assessment outside this length will not receive full marks as you need to demonstrate you can articulate your ideas in a clear and concise manner, ensuring key points are addressed)
- You are not expected to generate the images yourself. To complete this assessment successfully you must accurately reference your image sources using the A.P.A. format
- Please ensure your student name and number are visible in the poster heading along with your status

as a sonography student at Central Queensland University.

- Your poster is a powerful piece of media for your audiences, ensure that your image/s are of excellent quality and that the poster is visually appealing to the audience and engages the reader. Target audience is health care professionals especially qualified sonographers.
- Use current material sources i.e. within the last 10 years.

**Assessment Due Date**

Week 7 Wednesday (26 Apr 2017) 1:00 pm AEST

Submit on-line through Turnitin

**Return Date to Students**

Week 9 Thursday (11 May 2017)

**Weighting**

40%

**Minimum mark or grade**

50% of available marks must be attained in order to pass this assessment.

**Assessment Criteria**

Marks are awarded as follows:

- All writing to be of academic quality and nature with no one sentence paragraphs or incomplete ideas.
- Writing perspective should be consistent and in the third person.
- Clear, concise descriptions related to topic selected.
- Topic selected should be relevant to the field of musculoskeletal sonography and **is not** to be a simple "how to" scan of a particular region.
- Images accurately correlate with description and topic selected.
- Images being of sufficient quality, clearly labelled and referenced appropriately.
- Accurate spelling and grammar.
- Aesthetic appeal of poster.
- Referencing accurate, complete and conforming to APA style.

A marking rubric will be available in week one of Moodle with further information supplied during the Zoom Collaborate in week one.

**Referencing Style**

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

**Submission**

Online

**Learning Outcomes Assessed**

- Describe musculoskeletal anatomy and body mechanics.
- Differentiate the variance of normal and abnormal sonographic appearances of the musculoskeletal system.
- Describe sonographic techniques and protocols appropriate to musculoskeletal ultrasound.
- Analyse clinical scenarios to provide a differential diagnosis and produce a sonographic report.
- Formulate strategies for the provision of safe and ethical patient care.

**Graduate Attributes**

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

## Examination

**Outline**

Complete an invigilated examination.

**Date**

During the examination period at a CQUniversity examination centre.

**Weighting**

60%



**Length**

120 minutes

**Minimum mark or grade**

50%

**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