



# **MEDS20008 Advanced Musculoskeletal Ultrasound Upper Body**

## **Term 1 - 2017**

Profile information current as at 19/05/2024 12:56 am

All details in this unit profile for MEDS20008 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 advances your clinical practice in the field of musculoskeletal ultrasound of the upper body. You will deepen your knowledge and understanding of sonographic anatomy, pathophysiology and dynamic function of the musculoskeletal systems in the upper body. You will appreciate the role of ultrasound in clinical assessment, and patient management, including interventional procedures. To successfully complete this unit you will need access to musculoskeletal ultrasound examinations in the clinical context. This unit includes an optional residential school comprising practical training in advanced upper body musculoskeletal ultrasound.

### Details

Career Level: *Postgraduate*

Unit Level: *Level 9*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

There are no requisites for this unit.

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

- 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).

### 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 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

#### 1. **Written Assessment**

Weighting: 50%

#### 2. **Online Test**

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](#).

## Unit Learning Outcomes

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

1. Analyse sonographic anatomy and appearances of normal and pathological musculoskeletal structures of the upper body
2. Research the role of ultrasound in the clinical assessment, diagnosis and treatment of a patient.

The Masters course does not lead to entry into the sonography profession but is rather provided to qualified practitioners to allow advanced practice. Therefore it does not require external accreditation. The Master of Medical Ultrasound qualifies as Continuing Professional Development (CPD) activity (activity code 10B - Australian Sonographers Accreditation Registry (ASAR)).

## 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
1 - Written Assessment - 50%		•
2 - Online Test - 50%	•	

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes	
	1	2
1 - Knowledge	○	○
2 - Communication	○	○
3 - Cognitive, technical and creative skills	○	○
4 - Research		○
5 - Self-management		○
6 - Ethical and Professional Responsibility		○
7 - Leadership		
8 - 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
1 - Written Assessment - 50%	○	○	○	○	○	○		
2 - Online Test - 50%	○	○	○					

## Textbooks and Resources

### Textbooks

MEDS20008

#### Prescribed

#### Ultrasound of the Musculoskeletal System

Edition: 1 (2007)

Authors: Stefano Bianchi and Carlo Martinoli

Springer-Verlag Berlin Heidelberg

New York , New York , USA

ISBN: ISBN-13: 978-3540422679 ISBN-10: 3540422676

Binding: Hardcover

#### Additional Textbook Information

There is a hardcover copy and an eBook available for this text.

[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 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Michelle Fenech** Unit Coordinator

[m.fenech@cqu.edu.au](mailto:m.fenech@cqu.edu.au)

## Schedule

### Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Introduction and Assessment task overview	Chapters 1-5 As this unit is advanced MSK Ultrasound, some general knowledge of the basics of MSK ultrasound is assumed. These chapters are available to read to refresh your understanding of the basics. Lectures are available.	Tutorial - Monday night 6th March, 7pm (AEST).

### Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Brachial plexus and muscles that stabilise the shoulder	Chapter 6 Lectures are available.	

### Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Shoulder and axilla	Chapter 6 Lectures are available.	Tutorial - Monday night, 20th March, 7 pm (AEST).
<b>Week 4 - 27 Mar 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Upper arm	Chapter 7 Lectures are available.	
<b>Week 5 - 03 Apr 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Elbow	Chapter 8 Lectures are available.	Tutorial - Monday night, 3rd April, 7 pm (AEST).
<b>Vacation Week - 10 Apr 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Happy Easter!		Easter Holidays at end of week.
<b>Week 6 - 17 Apr 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Forearm	Chapter 9 Lectures are available.	Easter Monday at start of week
<b>Week 7 - 24 Apr 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Wrist	Chapter 10 Lectures are available.	Anzac Day on Tuesday of this week.
<b>Week 8 - 01 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Hand	Chapter 11 Lectures are available.	Tutorial - Tuesday night, 2nd May, 7 pm (AEST). (Public holiday in Qld on Monday this week).
<b>Week 9 - 08 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Fingers and thumb	Chapter 11 Lectures are available.	<b>Written Assessment</b> Due: Week 9 Friday (12 May 2017) 9:00 am AEST
<b>Week 10 - 15 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Muscles of the neck	Lectures to supplement this week.	Tutorial - Monday night, 15th May, 7 pm (AEST).
<b>Week 11 - 22 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Interventional ultrasound and revision	Lectures to supplement this week.	
<b>Week 12 - 29 May 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Online test is open this week to complete.		<b>Online Test</b> Due: Week 12 Friday (2 June 2017) 4:00 pm AEST
<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>

## Term Specific Information

The unit coordinator for MEDS20008 is Michelle Fenech who is based on the Brisbane campus. The best way to contact Michelle is via email: m.fenech@cqu.edu.au. You may also phone: 07 3295 1180, however some days she is in ultrasound labs on the Brisbane campus. If not available, please leave a message or email for her to return your call. Access to the internet is required to undertake this unit, as unit materials, tutorials and updates will be provided via Moodle, email and zoom. It is important to check your student cqu emails regularly as emails will be sent each week to keep you on track, and if supplementary material is required, this can be updated on Moodle and emails will be sent to you to let you know if any changes have been made. We are using the prescribed text to supplement each weeks materials. There is an e-book copy of this text if you wish to acquire that. Tutorials are scheduled throughout the term. These will be undertaken via zoom. Please note these are scheduled for QLD times. If there is something you would like discussed at the tutorials, please email in advance so we can allow time for your topic to be discussed. You need to ensure that you are available at some stage to undertake the online test in week 12 (test will be open from the Friday of the end of week 11 to the Friday of the end of week 12). You will require internet access to undertake this test.

## Assessment Tasks

### 1 Written Assessment

#### Assessment Type

Written Assessment

#### Task Description

Develop an educational e-poster that clearly discusses the sonographic examination of a specific upper body musculoskeletal region to be presented to fellow professionals.

The presentation is to 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.

#### Assessment Due Date

Week 9 Friday (12 May 2017) 9:00 am AEST

Submitted through the assessment tab on Moodle.

#### Return Date to Students

Week 11 Friday (26 May 2017)

Returned via Moodle.

#### Weighting

50%

#### Minimum mark or grade

50%

#### Assessment Criteria

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. This should contain the title of the presentation, your name and qualifications. The content slides should have clear headings.

The area outlined in the poster should be clinically relevant. The anatomy, sonographic appearance of normal structures, discussion of why the examination may be undertaken and pathology that may be encountered in the region should be discussed. You are required to have researched, analyzed, critically reflected on and synthesized current medical literature. A high level of communication skills needs to be utilized to convey a clear message. All anatomical drawings should be original. All slides are to be in 'landscape' format.

Your e-poster will be assessed on:

Academic writing - it should contain organized, logical and coherent content with a clear and concise message at an appropriate length. It should be proof read and edited with accurate spelling and grammar and appropriate vocabulary for the target audience.

Content of e-poster - The purpose of the paper should be clear and relevant with the anatomy, sonographic appearance and pathophysiology discussed with diagrams and images used to support the discussion. Evidence based content must be used. All ultrasound images must be original and de-identified.

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 and complete and utilized correctly in the

correct style (APA) with quality and appropriate sources utilized.

The Marking rubric to be used is available on Moodle.

Students need to obtain a minimum of 50% in the e-poster to allow them to pass the unit.

### Referencing Style

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

### Submission

Online

### Submission Instructions

Submit via Moodle under the assessment tab - submit via Assessment 1 - written assessment

### Learning Outcomes Assessed

- Research the role of ultrasound in the clinical assessment, diagnosis and treatment of a patient.

### Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility

## 2 Online Test

### Assessment Type

Online Test

### Task Description

An online test will be conducted to assess your understanding of the content in this unit and its application. The test will be accessed through the assessment tab on Moodle and you will require internet access to complete this test. It will comprise of 10 questions which will require you to provide typed written answers. Each question will be worth 10 marks. The test will be open for 1.5 hours which will allow nine (9) minutes per question and only one attempt is allowed. Once the test is commenced, it cannot be paused, stopped or re-started and once you have completed the test, it cannot be re-taken.

The test will be open from Friday 26th May, 4 pm to Friday 2nd June, 4pm. So it will be open from the end of week 11 to the end of week 12.

### Assessment Due Date

Week 12 Friday (2 June 2017) 4:00 pm AEST

This exam is open for a whole week. It will be open from Friday 26th May at 4pm and close on Friday 2nd June at 4 pm.

### Return Date to Students

Exam Week Friday (16 June 2017)

Results will be posted on Moodle.

### Weighting

50%

### Minimum mark or grade

50%

### Assessment Criteria

The questions for this online test will be drawn from a pool of questions to allow tests to be different for each student.

Image viewing tests may be included and you are required to be familiar with normal and pathological sonographic imaging and the associated anatomy demonstrated which have been discussed in this unit.

You will need to allocate a 90 minute period throughout the week that the test is open where you have good internet connection to allow the test to be completed. Your answers need to be detailed enough to allow you to gain 10 marks for each answer you provide.

Please note: You must commence the test before Friday 2nd June 2.30 pm as the test will automatically close at 4 pm on Friday 2nd June. If you have not completed the test by this time, your test may be submitted with no answers. It is your responsibility to ensure you have the test well and truly completed before 4 pm on Friday 2nd June.

This test is to be completed online and it is an open book exam, however, do not think you will have time to look up answers. The test is time limited with only 9 minutes allowed for you to type your answer in for each question. You will find it useful to produce your own notes from the lectures as there is no time in the test to search for answers in texts or online.

Students need to obtain a minimum score of 50% in the online test to allow them to pass the unit.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

You need to access the test through the assessment tab on Moodle and will need to maintain internet access for 90 minutes to complete the test.

**Learning Outcomes Assessed**

- Analyse sonographic anatomy and appearances of normal and pathological musculoskeletal structures of the upper body

**Graduate Attributes**

- Knowledge
- Communication
- Cognitive, technical and creative skills



## 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