



# MEDS11002 Relational Anatomy and Image Recognition

## Term 2 - 2018

Profile information current as at 19/05/2024 12:45 pm

All details in this unit profile for MEDS11002 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 examines the gross, topographical and relational anatomy of the human body and develops the pattern recognition skills to identify normal anatomical structures on medical images. Each macroscopic anatomical structure, or its constituent part, is studied in terms of spatial characteristics, relative to adjacent structures, body planes, external and internal landmarks relevant to sonographic practice. This knowledge is engaged to enhance the development of pattern recognition skills in relation to the cross-sectional, oblique, coronal and sagittal display of these anatomical structures on normal medical images, with a particular focus on the interpretation of sonographic images. You will be required to attend a compulsory residential school at your campus of enrolment. An assessment task will be completed on campus during this residential school.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: 12

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.25

### Pre-requisites or Co-requisites

Prerequisite: BMSC11001 Human Body Systems 1 AND Corequisite BMSC11002 Human Body Systems 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 2 - 2018

- Mixed Mode

### 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 Compulsory 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 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 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. **Online Test**

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 Evaluation

##### **Feedback**

Students enjoy the way lectures are conducted and the interactive style of the zoom tutorials. The weekly exercises are great for revision and reinforcement of weekly teachings.

##### **Recommendation**

Continue to deliver current practise on unit content and maintain weekly zoom tutorials to assist with understanding of delivered teachings.

#### Feedback from Student Evaluation

##### **Feedback**

Unit materials are helpful towards learning concepts of Relational Anatomy and Image Recognition, especially the work book questions that relate images of different imaging modalities to the topic in question. Quizzes assist in reiterating and testing theoretical knowledge.

##### **Recommendation**

Ensure that assessable quizzes and workbook problems are incorporated into repeat deliveries of this unit.

#### Feedback from Unit Coordinator Self Reflection

##### **Feedback**

Student activity and engagement has increased this year and has been reflected in the distribution of grades for this unit. Relational Anatomy is a double credit point unit that carries a very heavy theoretical loading and expectation.

##### **Recommendation**

Continue to increase student engagement by utilizing, 'flipped classroom' tutorial sessions.

#### Feedback from Residential School Feedback

##### **Feedback**

Students thoroughly enjoyed the Residential School and the opportunity to get 'hands on' experience of their profession, whilst attaining anatomical conceptualized learning.

##### **Recommendation**

Increase practical components of Relational Anatomy and Image Interpretation Residential School delivery. Ensure that all students receive substantial clinical scanning time in the ultrasound laboratory environment in the Residential School.

## Unit Learning Outcomes

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

1. Describe the features and location of sonographically significant macroscopic anatomical structures.
2. Describe the spatial orientation of each anatomical structure relative to adjacent structures, body planes and landmarks.
3. Identify cross-sectional, coronal and sagittal representation of organs and structures.
4. Apply the skill of pattern recognition to the interpretation of medical images, particularly sonographic.
5. Identify anatomical features on medical images, particularly sonographic views.

The sonography course is accredited by the Australian Sonographers Association and knowledge required by entry-level sonographers is introduced in this unit and is a key requirement of accreditation.

## 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 - Online Test - 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 - Online Test - 40%	•	•	•	•						
2 - Examination - 60%	•	•	•	•						

## Textbooks and Resources

### Textbooks

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#### **Prescribed**

##### **Clinically Oriented Anatomy**

Edition: 8 (2018)

Authors: Keith L Moore, Arthur F Dalley & Anne M R Agur

Wolters Kluwer

Philadelphia , PSV , USA

ISBN: 9781496347213

Binding: Paperback

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#### **Prescribed**

##### **Sectional Anatomy for Imaging Professionals**

Edition: 4 (2018)

Authors: Lorrie L Kelley & Connie M Petersen

Elsevier

St Louis , Missouri , USA

ISBN: 978-0-323-41487

Binding: Paperback

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#### **Supplementary**

##### **Sectional Anatomy for Imaging Professionals - Workbook**

Edition: 4 (2018)

Authors: Lorrie L Kelley & Connie M Petersen

Elsevier

St Louis , Missouri , USA

ISBN: 978-0-323-56961-3

Binding: Paperback

#### **Additional Textbook Information**

Text books have been selected based not just upon material within them but texts you will be able to use in other units in the Medical Sonography program.

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

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

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Computer with camera and microphone to participate in tutorials via zoom

## Referencing Style

All submissions for this unit must use the referencing style: [Vancouver](#)  
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 - 09 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
The brain and cranium	Chapter 8 Moore text Chapter 2 and 3 Kelley and Petersen text Lectures are available to supplement this reading Introductory lectures about the unit are available.	

### Week 2 - 16 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
The spine/back	Chapter 2 Moore text Chapter 4 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 18th July, 11 am, AEST via zoom.

### Week 3 - 23 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
The thorax, heart and mediastinum	Chapter 4 Moore text Chapter 6 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 25th July, 11 am, AEST via zoom.

### Week 4 - 30 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
The upper limb	Chapter 3 Moore text Chapter 9 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 1st August, 11 am, AEST via zoom.

### Week 5 - 06 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
The lower limb	Chapter 7 Moore text Chapter 10 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 8th August, 11 am, AEST, via zoom.

### Vacation Week - 13 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Take a break or use this week to catch up		

### Week 6 - 20 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
The abdomen part 1	Chapter 5 Moore text Chapter 7 Kelley and Petersen text Lectures are available.	Tutorial Wednesday, 22nd August, 11 am, AEST via zoom.

### Week 7 - 27 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
The abdomen part 2	Chapter 5 Moore text Chapter 7 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 29th August, 11 am, AEST via zoom.

### Week 8 - 03 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
The Pelvis	Chapter 6 Moore text Chapter 8 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 5th September, 11 am, AEST via zoom.

### Week 9 - 10 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Compulsory residential school this week	Revision relating to online test to be conducted during the residential school No new lecture content designated for this week - revision only.	Residential school to be attended at your campus of enrollment. Tuesday 11th September and Wednesday 12th September, 8.30am - 3.30pm (local times). Online test to be held on Wednesday 12th September on campus.  <b>Online test undertaken during residential school</b> Due: Week 9 Wednesday (12 Sept 2018) 1:00 pm AEST

### Week 10 - 17 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
The neck	Chapter 9 Moore text Chapter 5 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 19th September, 11 am, AEST via zoom.

### Week 11 - 24 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Facial bones, facial muscles, and additional head anatomy.	Chapter 8 Moore text Chapter 2 Kelley and Petersen text Lectures are available.	Tutorial Wednesday 26th September, 11 am, AEST via zoom.

### Week 12 - 01 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
Revision	Revise all chapters from texts, notes from lectures, information covered in residential school and tutorials.	Tutorial Wednesday 3rd October, 11 am, AEST via zoom.

## Term Specific Information

The unit coordinator for this unit is Michelle Fenech. Email: [m.fenech@cqu.edu.au](mailto:m.fenech@cqu.edu.au) or phone 07 3295 1180. Michelle may be in sonography labs during the term, so may not be able to take all phone calls. Please leave a message and also email if you wish to discuss a matter on the phone.

As this unit is a 12 credit point unit, you are expected to spend on average 25 hours per week on study activities for this unit (total of 300 hours for the unit).

A suggested time budget for each week of study is:

- Watching recorded lectures and taking notes (4 - 5 hours)
- Complete associated reading from texts (2 - 3 hours)
- Creating study notes to meet weekly learning objectives using lectures, notes provided and readings from the texts (4 - 5 hours)
- Drawing your own anatomic diagrams and labeling these (2 hours)
- Completing practice quiz questions (1 - 2 hours)
- Completing labeling of anatomic diagrams provided each week (1 hour)
- Attendance and participation in weekly zoom tutorials (or watch recordings of these) to discuss unit content and quiz questions and answers to allow you to prepare for the two assessment tasks for this unit (1 hour)
- Preparation and revision for test in residential school and final exam
- Attendance at the compulsory 2 day residential school at your campus of enrollment (Tuesday 11th September and Wednesday 12th September, 8.30 am - 3.30pm).

In order to pass this unit, you must attain at least 50% overall and meet the minimum mark of 50% in each assessment task.

## Assessment Tasks

# 1 Online test undertaken during residential school

## Assessment Type

Online Test

## Task Description

An online test will be conducted and completed during the compulsory residential school in week nine (9) at your campus of enrollment.

The online test will assess your understanding of content in this unit.

Knowledge of the name, location, size, orientation, and relative position of anatomic structures will be assessed.

Questions may include identifying structures on anatomical models, diagrams and diagnostic images.

You may be asked to describe morphological features of structures and spatial relationships between structures.

The test is an hour long (60 minute) test with short answer questions which require typed answers.

While the test may assess material that is presented during the residential school, it **will not** be solely based upon residential school material.

Questions will be drawn from any content presented up to and including week 9, including but not limited to lectures, additional resources provided and tutorial presentations.

Questions will be drawn from a pool of questions and will be presented in a different order for each student.

The test will be closed book and supervised and you will be required to adhere to test conditions.

Any evidence of students not adhering to test conditions will be dealt with as per the CQUniversity academic misconduct procedure document.

## Assessment Due Date

Week 9 Wednesday (12 Sept 2018) 1:00 pm AEST

To be held during compulsory residential school at campus of enrollment

## Return Date to Students

Week 11 Wednesday (26 Sept 2018)

## Weighting

40%

## Minimum mark or grade

50%

## Assessment Criteria

You must provide short to medium length typed responses to a series of online questions.

Short answer questions will be marked based on the question complexity and answer provided.

Responses to test questions will be assessed according to:

- Use of appropriate anatomic terminology and descriptors
- Correct spelling and use of professional terminology
- Correctness, relevance and completeness of the response to the question asked
- Adequate detail in answers to demonstrate awareness of bilateral structures, so right or left sided structures must be specified where appropriate
- The ability to appropriately interpret medical images and compose an appropriate response based on learning from the unit

## Referencing Style

- [Vancouver](#)

## Submission

Online

## Submission Instructions

Test undertaken through Moodle

## Learning Outcomes Assessed

- Describe the features and location of sonographically significant macroscopic anatomical structures.
- Describe the spatial orientation of each anatomical structure relative to adjacent structures, body planes and landmarks.
- Apply the skill of pattern recognition to the interpretation of medical images, particularly sonographic.
- Identify anatomical features on medical images, particularly sonographic views.

## Graduate Attributes

- Communication
- Problem Solving



- Critical Thinking
- Information Literacy

## 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**

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