



MEDS11002 Relational Anatomy and Image Recognition

Term 2 - 2019

Profile information current as at 16/05/2024 11:18 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 - 2019

- 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 Quiz(zes)**

Weighting: 20%

2. **In-class Test(s)**

Weighting: 20%

3. **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

Add summative quizzes to reduce weighting of test during residential school

Recommendation

Summative quizzes should be added. Possibly 3 x 5% quizzes to be added. This would allow for the residential school test to be worth 25%. This can work to ensure consistent engagement with unit material, and also prepare students for the test during residential school.

Feedback from Student feedback

Feedback

There were many different lecture styles by different lecturers.

Recommendation

Streamline lectures so not so many lecturers having input to enhance student learning. If different lectures from different lecturers are to be utilised - scaffolding around this is to be provided.

Feedback from student feedback

Feedback

Feedback to the test during residential school to be provided

Recommendation

Feedback about quizzes and test conducted during residential school to be provided in additional tutorials and delivered verbally.

Feedback from student feedback

Feedback

More hands on scanning in residential school

Recommendation

Residential school to become more hands on to allow students to gain 3D appreciation of anatomical relationships of structures

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 Quiz(zes) - 20%				•	•
2 - In-class Test(s) - 20%	•	•	•	•	•
3 - 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 Quiz(zes) - 20%		•	•							
2 - In-class Test(s) - 20%	•	•	•							
3 - Examination - 60%	•	•								

Textbooks and Resources

Textbooks

MEDS11002

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

[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

Schedule

Week 1 - The pelvis part 1 - 15 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Revision of body cavities Pelvis part 1 - Pelvic girdle and regions of the pelvis - Pelvic cavity and musculature - Neurovascular structures of pelvis	Chapter 6 Moore text Chapter 8 Kelley and Petersen text	Tutorial Tuesday 16th July, 11 am AEST via zoom.

Week 2 - The pelvis part 2 - 22 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Pelvis part 2 - pelvic viscera - the perineum	Chapter 6 Moore text Chapter 8 Kelley and Petersen text	Tutorial Tuesday 23rd July, 11 am, AEST via zoom.

Week 3 - The abdomen part 1 - 29 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
The abdomen part 1 - Abdominal wall muscles - Aorta and IVC - Peritoneum and retroperitoneum - Gall bladder and biliary system - Liver and portal venous system	Chapter 5 Moore text Chapter 7 Kelley and Petersen text	Tutorial Tuesday 30th July, 11 am, AEST via zoom.

Week 4 - The abdomen part 2 - 05 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
The abdomen part 2 - Adrenal glands - Bladder and lower ureters - Kidneys - Pancreas - Spleen - Digestive system	Chapter 5 Moore text Chapter 7 Kelley and Petersen text	Tutorial Tuesday 6th August, 11 am, AEST via zoom. Online quiz 1 to be completed - opens 9am Wed 7th August and closes 9 am Friday 9th August (assessing Pelvis content)

Week 5 - The thorax - 12 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
The Thorax	Chapter 4 Moore text Chapter 6 Kelley and Petersen text	Tutorial Tuesday 13th August, 11 am, AEST, via zoom.

Break Week - 19 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Take a break or use this week to catch up. There is no new content delivered this week and no tutorial this week.		

Week 6 - The neck - 26 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
The neck	Chapter 9 Moore text Chapter 5 Kelley and Petersen text	Tutorial Wednesday, 27th August, 11 am, AEST via zoom. Online quiz 2 to be completed - opens 9am Wednesday 28th August and closes 9 am Friday 30th August (assessing Abdomen content) Online quizzes to be completed in week 4 and week 6 of term Due: Week 6 Friday (30 Aug 2019) 9:00 am AEST

Week 7 - The lower limb - 02 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
The lower limb	Chapter 7 Moore text Chapter 10 Kelley and Petersen text	Tutorial Tuesday 3rd September, 11 am, AEST via zoom.

Week 8 - The upper limb - 09 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
The upper limb	Chapter 3 Moore text Chapter 9 Kelley and Petersen text	Tutorial Tuesday 10th September, 11 am, AEST via zoom.

Week 9 - Residential school - 16 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Compulsory residential school this week No new content is delivered this week.	No new content designated for this week - revision only.	Residential school to be attended at your campus of enrolment. Tuesday 17th September and Wednesday 18th September, 8.30am - 3.00pm (local times). In-class test to be conducted on second day of residential school Due: Week 9 Wednesday (18 Sept 2019) 1:00 pm AEST

Week 10 - The brain and cranium - 23 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
The brain and cranium	Chapter 8 Moore text Chapter 2 and 3 Kelley and Petersen text	Tutorial Tuesday 24th September, 11 am, AEST via zoom.

Week 11 - The spine and back - 30 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
The spine and back	Chapter 2 Moore text Chapter 4 Kelley and Petersen text	Tutorial Tuesday 1st October, 11 am, AEST via zoom.

Week 12 - Facial muscles and facial bones - 07 Oct 2019

Module/Topic	Chapter	Events and Submissions/Topic
Facial muscles and facial bones	Chapter 8 Moore text. Chapter 2 Kelley and Petersen text Tutorial relating to facial muscles and facial bones will be pre-recorded and available this week.	Tutorial Wednesday 8th October, 11 am, AEST via zoom.

Review/Exam Week - 14 Oct 2019

Module/Topic	Chapter	Events and Submissions/Topic
	Revise all notes from lectures, topics covered in tutorials, chapters from texts and information covered in residential school as all is examinable in the final exam. Good luck :)	

Exam Week - 21 Oct 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Term Specific Information

The unit coordinator for this unit is Michelle Fenech who is based in Brisbane. Her email is m.fenech@cqu.edu.au and phone: 07 3295 1180.

As this unit is undertaken by distance, all lectures are pre-recorded. The lectures and their associated pdfs are available on Moodle. Tutorials will be run each week on Tuesdays at 11 am (AEST) via zoom and are an opportunity for you to ask questions in an interactive environment. If you cannot attend the tutorials in person, recordings of the tutorial will be available on Moodle the following day.

This unit is a double credit point unit (12 credit points), and you are expected to spend twice the amount of time on this unit than a 6 credit point unit, and this equates to 25 hours per week on study activities (and a total of 300 hours for the unit). Anatomy is a content heavy unit, so there are quite a lot of lectures (and pdfs) all available on Moodle. You have two prescribed text books which you will need to use to aid your learning. Other resources are available to you and these include "Anatomy tv" and also "Draw-it-to-know-it" which can both be used to enhance your understanding of anatomical structures, their location and position relative to other structures. There are also weekly 'practice quizzes' available (under each respective week on Moodle) which do not contribute to your overall grade, but are great revision tools. Each week pdfs have been developed that have a compilation of anatomy diagrams and medical images which you can label. These are a fantastic resource to allow you to practice identifying anatomical structures and are good to complete to prepare you for exam questions.

There is a two day compulsory residential school in week 9 (Tuesday 17th and Wednesday 18th September, 2019) associated with this unit. You must attend this residential school at your campus of enrolment. It will run from 8.30 am - 3 pm. There is an in-class test you need to complete at this residential school whilst on campus which is worth 20% of your overall grade for this unit.

There are two online quizzes to be completed and these are Online quiz 1 (completed in week 4) which will test you on the pelvic content and Online quiz 2 (completed in week 6) which will test you on abdominal content. Each of these two online quizzes is worth 10% of the overall grade for this unit (total 20% of final grade). These quizzes have been designed to keep you engaged with the content and keep you up to date with the progression of the unit throughout the term.

In terms of the best way to budget your study time and activities to be completed for this unit, you will need to look at the term as a whole before designing a study timetable. It is important to consider that each week you will need to allow time to:

- watch lectures and compile study notes
- read from texts
- complete labelling activities
- undertake practice quizzes
- use 'Anatomy tv' and 'Draw-it-to-know-it'
- attend tutorial or watch recording of tutorial
- revise other weeks materials and ensure you know when online quizzes are to be completed

You do not have written assessments associated with this unit, so your time is to be spent in learning and revising content. If you have any questions related to this unit, please post them on the forum site, so that all students can benefit from the question and the answer. Please do not expect email replies on weekends or after hours and please communicate in a professional manner when using the forums.

Assessment Tasks

1 Online quizzes to be completed in week 4 and week 6 of term

Assessment Type

Online Quiz(zes)

Task Description

There are two online quizzes which are to be completed throughout the term which contribute to your overall grade. These are online quiz 1 and online quiz 2.

The quizzes will be accessed via the MEDS11002 Moodle site, under the assessment tab.

Each quiz will consist of 10 multi-choice questions and each quiz is worth 10% of the final grade, however there is no minimum grade requirement for these quizzes.

You will have 15 minutes to complete each quiz (equating to 1.5 minutes per question).

Online quiz 1 is to be completed in week 4 (worth 10%) and will assess content related to week 1 and 2 (The pelvis). Online quiz 1 will open at 9 am Wednesday 7th August and will close at 9 am Friday 9th August.

Online quiz 2 is to be completed in week 6 (worth 10%) and will assess content related to week 3 and 4 (The abdomen). Online quiz 2 will open 9 am Wednesday 28th August and will close at 9 am Friday 30th August.

Each quiz will be open for only 48 hours and you will need to allocate 15 minutes during the 48 hour period it is open to complete each online quiz.
It is important not to get these quizzes confused with practice quizzes which are provided each week. Practice quizzes are available under each weekly tab, and Online quiz 1 and 2 will be accessed under the assessment tab on the left hand side of the Moodle page.
You will require internet access to complete these online quizzes.
As these quizzes involve multiple choice questions, you will be required to select the most appropriate answer from a selection of possible answers in relation to the question asked.

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

Week 6 Friday (30 Aug 2019) 9:00 am AEST

Friday 30th August is the due date for online quiz 2. Online quiz 1 will close on Friday 9th August at 9 am in week 4.

Return Date to Students

Week 8 Friday (13 Sept 2019)

Weighting

20%

Assessment Criteria

Questions will be related to naming and describing anatomic structures as well as the spatial relationships of anatomic structures.

You will be required to identify anatomic structures on diagrams and medical images.

Tests will be graded on the correct answers provided related to the questions asked.

There are 10 questions in each quiz and each question is worth 1 mark.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The online quizzes must be completed by you without assistance or collusion with others. Any evidence of collusion will be dealt with in adherence with the CQU student misconduct policy and procedure.

Learning Outcomes Assessed

- 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

- Problem Solving
- Critical Thinking

2 In-class test to be conducted on second day of residential school

Assessment Type

In-class Test(s)

Task Description

An in-class test will be conducted and completed during the second day of the compulsory residential school in week nine (9) at your campus of enrolment.

The in-class test will be conducted as an online test via Moodle and will assess your understanding of content of this unit. Content assessed will include content covered in lectures, tutorials and readings from weeks 1-7.

The questions will involve a combination of question types including short answer questions which require typed answers. Questions may include identifying anatomic structures from diagrams and diagnostic images and you will need to be familiar with names, locations, orientations and relative positions of anatomic structures.

The test will last 60 minutes. It will be closed book and supervised by tutors conducting the residential school, and you will be required to adhere to test conditions. You will complete the test in computer labs on campus.

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

You must know your student login to allow you to access university computers.

Assessment Due Date

Week 9 Wednesday (18 Sept 2019) 1:00 pm AEST

Return Date to Students

Week 11 Wednesday (2 Oct 2019)

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

Short answer typed responses will be required in response to a series of questions.

Responses to test questions will be assessed according to:

- Use of appropriate anatomic terminology and descriptors
- Correct spelling of anatomical and technical terms
- Relevance of response to the question asked
- Adequate detail provided in answer to demonstrate awareness of bilateral structures, so use of right and left terminology is required in some questions
- Your ability to appropriately identify anatomical structures on medical images in different planes

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Test will be undertaken via 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
- Identify cross-sectional, coronal and sagittal representation of organs and structures
- 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

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).

No calculators permitted

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