



MEDS12003 *Superficial Structures in Ultrasound*

Term 1 - 2021

Profile information current as at 09/05/2024 07:05 pm

All details in this unit profile for MEDS12003 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 explores the sonographic assessment of normal and pathological superficial structures. You will apply knowledge of anatomy, physiology and embryology to conduct sonographic examinations of superficial structures in the laboratory setting as well as utilising simulated clinical scenarios and case studies to critically reflect on sonographic problems. Development of the knowledge, skills and attitudes required to perform an ultrasound examination of the thyroid will be assessed within a simulated environment.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Prerequisite MEDS11001 Fundamentals of Sonographic Practice and MEDS11002 Relational Anatomy and Image Recognition OR MEDS11003 Relational Anatomy and Corequisites MEDS12001 Physics 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 [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 1 - 2021

- Brisbane
- Mackay
- Melbourne
- Perth
- 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: Pass/Fail

2. **Practical Assessment**

Weighting: Pass/Fail

3. **Online Quiz(zes)**

Weighting: Pass/Fail

4. **On-campus Activity**

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 [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 Have your say

Feedback

Students would like lectures to represent a variety of learning styles.

Recommendation

Consider revising these pre-recorded lectures to be more accommodating to different learning styles.

Feedback from Have your say

Feedback

Students were unclear of the role of 'additional readings' in the learning strategy

Recommendation

Clarify the role of additional reading as a core, not just suggested, learning activity.

Feedback from Have your say and emails

Feedback

The students thoroughly enjoyed the tutorials provided.

Recommendation

To continue providing 'clinical case study' tutorials to allow more pathology and normal anatomy recognition.

Feedback from Have your say

Feedback

The students enjoy the structure and outline of the practical labs

Recommendation

To continue this outline and structure of the practical components for future deliveries of this unit.

Feedback from Student communication

Feedback

The students have appreciated the prompt response for student queries via Q&A and emails.

Recommendation

To continue to deliver prompt tutor-student communication and engagement throughout the term.

Unit Learning Outcomes

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

1. Apply knowledge of anatomy, physiology and embryology of superficial structures to the sonographic examination.
2. Differentiate the clinical appearance, sonographic appearance and aetiology of pathologies of superficial structures.
3. Analyse clinical scenarios to provide a differential diagnosis and produce a sonographic report.
4. Apply the practical skills and critical thinking necessary to perform a sonographic examination of the thyroid.
5. Display professional behaviour, teamwork and communication skills and criteria to meet safe sonographic practice

The learning outcomes for this unit relate to the requirements of the Australasian Sonographer's Association Competency Standards for the Entry Level Sonographer.

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 - 0%	•	•			
2 - Practical Assessment - 0%	•	•	•	•	
3 - Online Quiz(zes) - 0%	•	•			
4 - On-campus Activity - 0%				•	•

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 - 0%	•	•	•	•		•				
2 - Practical Assessment - 0%	•	•	•	•		•		•		
3 - Online Quiz(zes) - 0%		•	•	•		•				

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
4 - On-campus Activity - 0%	•	•			•		•	•		

Textbooks and Resources

Textbooks

MEDS12003

Prescribed

Textbook of Diagnostic Sonography

Edition: 8th (2018)

Authors: Hagen-Ansert

Elsevier

ISBN: 9780323353755

Binding: Hardcover

MEDS12003

Supplementary

Workbook for Textbook of Diagnostic Sonography

Edition: 8th (2018)

Authors: Hagen- Ansert

Elsevier

ISBN: 9780323441834

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)
- Access to CQ university campus (Sonography lab)
- Access to Phillips iSite (PACS) on-campus

Referencing Style

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

For further information, see the Assessment Tasks.

Teaching Contacts

Ovini Wanigasekera Unit Coordinator

o.wanigasekera@cqu.edu.au

Jane Wardle Unit Coordinator

j.wardle@cqu.edu.au

Schedule

Week 1 Compulsory Induction, Lab Orientation and Introduction to Thyroid - 08 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Compulsory (online) Lab Induction**Compulsory (on-campus) Lab Orientation**

Introduction to ultrasound equipment, scanning planes and sonographic terminology.

Hagen-Ansert (8th Ed) Chapter 6

Welcome ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Lab (online) Induction: Students **must** complete the (online) Lab Induction task prior to attending labs or practice in any capacity. Lab Induction requires the student to watch a campus specific induction video, power point presentation and then challenge the respective campus specific quiz. The pass mark for this quiz is 100% and this task needs to be successfully completed before **11th March 2021**.

Students failing to complete this online lab induction before March 11th 2021 will not be able to attend the compulsory Lab Orientation, which will result in a **FAIL grade for the unit**. **Lab Orientation** is a **compulsory** on-campus attendance on WEEK 1 Thursday. Please refer to unit Overview for further on-campus submission and lab documentation requirements.

Assessment 4: On-campus Activity:

• **Lab Agreement (Assessment 4A) and Consent Form (Assessment 4B) Due Week 1 Friday 18:00 AEST**

Week 2 Thyroid - 15 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Thyroid gland Anatomy, physiology and embryology of the thyroid gland. Sonographic appearance of a normal thyroid gland. Sonographic appearance of an abnormal thyroid gland and the clinical indications for specific pathology.	Hagen-Ansert (8th Ed) Chapter 22	ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Week 3 Lymph Nodes - 22 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Lymph Nodes Anatomy and physiology of the lymph nodes Sonographic appearance of normal lymph nodes. Clinical and sonographic indication and appearance of abnormal lymph nodes for specific pathology.		ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Week 4 Communication and Professionalism - 29 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Communication involving consent, confidentiality and interpersonal skills. Professionalism involving patient care, ergonomics and scope of practice.	Hagen-Ansert (8th Ed) Chapter 2 Hagen-Ansert (8th Ed) Chapter 3	ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Week 5 Parathyroid and Quiz 1 - 05 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Parathyroid
Anatomy and physiology of the parathyroid gland.
Sonographic appearance of a normal parathyroid gland.
Sonographic appearance of an abnormal parathyroid gland and the clinical indications for specific pathology.

Hagen-Ansert (8th Ed) Chapter 22

ZOOM Online Tutorial: 14:00 AEST (Tuesday)
Assessment 3: (Online QUIZ 1): Opens Monday 10:00 AEST, closes Tuesday 18:00 AEST

Online Quizzes Due: Week 5
Tuesday (6 Apr 2021) 6:00 pm AEST

Vacation Week - 12 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Break Week		NO ZOOM TUTORIAL

Week 6 Salivary Glands - 19 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Salivary Glands - Parotid and Submandibular. Anatomy and physiology of the salivary glands Sonographic appearance of normal salivary glands. Sonographic appearance of abnormal salivary glands and the clinical indications for specific pathology.		ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Week 7 Scrotum and Testes & Mock Assessment - 26 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Scrotum and Testes Anatomy and physiology of the scrotum and testes. Sonographic appearance of a normal scrotum and testes. Sonographic appearance of an abnormal scrotum and testes for specific pathology and its clinical indications.	Hagen-Ansert (8th Ed) Chapter 23.	ZOOM Online Tutorial: 14:00 AEST (Tuesday) MOCK Assessment: (pre-preparation test). Student to bring a printed hard copy version of the ARC (Assessment of Readiness for Clinical) tool should your assessor need to use it on the day. Written Assessment 1 [Technical Impressions Worksheet]: Student to bring a printed hard copy of the worksheet into the Week 7 Thursday Lab. This worksheet should be completed in lab following the Mock assessment and handed to the on-campus staff member. No student Moodle submission required for this Assessment. Technical Impressions Worksheet Due: Week 7 Thursday (29 Apr 2021) 6:00 pm AEST

Week 8 Eyes - 03 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Eye Anatomy and physiology of the eye. Sonographic appearance of a normal eye. Sonographic appearance of an abnormal eye ultrasound for specific pathology and its clinical indications.		ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Week 9 Superficial Lumps, Bumps and Foreign Bodies - 10 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Superficial Lumps, Bumps and Foreign Bodies.
Anatomy of superficial layer/structure.
Sonographic appearance of a normal superficial layer/structure on ultrasound.
Sonographic appearance of abnormal superficial lumps, bumps and foreign bodies plus the clinical indications for specific pathology.

ZOOM Online Tutorial: 14:00 AEST (Tuesday)

Practical Skills Test - Modified Thyroid Due: Week 9 Thursday (13 May 2021) 6:00 pm AEST

Week 10 Ultrasound Guided Interventional Procedures - 17 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Sonographic Guided ultrasound interventional procedures. Clinical indications and procedural information.	Hagen-Ansert (8th Ed) Chapter 18.	NO ZOOM TUTORIAL

Week 11 Revision Week - 24 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Review and Consolidation No lectures are delivered this week to allow student to concentrate on the RESIT Skills Test attempt (if required) and Quiz 2 revision.		ZOOM Online Tutorial: To be announced

Week 12 RESIT SKILLS TEST and Quiz 2 - 31 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Quiz 2 and RESIT SKILLS TEST		<p>NO ZOOM TUTORIAL</p> <p>Assessment 3: (Online QUIZ 2) Opens Monday 10:00 AEST, closes Tuesday 18:00 AEST Practical Assessment 2: RESIT SKILLS TEST (Modified Thyroid Examination): Due Week 12 Thursday Lab (3 June 2021)</p> <p>Professional Behaviour Assessment and Formative Feedback and Lab Attendance Record Due: Week 12 Friday (4 June 2021) 6:00 pm AEST</p>

Term Specific Information

Unit coordinator for Term 1 2021 is Ovini Wanigasekera
Ovini can be reached at o.wanigasekera@cqu.edu.au (Monday-Thursday). The Unit coordinator is based in Perth therefore please account for time differences with regards to communication. Email is the preferred method of communication.

Grades:

This is a non-graded, pass/fail unit. There are four (4) assessments for this unit and all assessments are graded as PASS/FAIL. ALL components (assessments) will need to be passed in order to successfully pass this unit. Please be aware that all assessment items (which require submission or on-campus examination) must be submitted/completed by the due date, as there is no opportunity to apply a 5 per cent penalty due to the pass-fail nature of each assessment task. The Assessment Policy and Procedure (Higher Education Coursework) states: 'Students who fail a single assessment in a pass/fail unit or a pass/fail component in a graded unit will be deemed to have failed that unit, unless the unit profile includes provision for students to re-attempt a failed assessment task and the student passes the re-attempted assessment.' The full document for Assessment Policy and Procedure (Higher Education Coursework) and Grades and Results Procedure can be accessed on the CQUni IMPortal http://policy.cqu.edu.au/Policy/policy_list.do. Please be aware that this unit is scheduled to run once a year and that the next delivery will be in Term 1, 2022.

Assessments:

1. Written Assessment: Technical Impressions Worksheet (Week 7 - Thursday lab on-campus assessment) - No student

Moodle submission required.

2. Practical Assessment: SKILLS TEST (Week 9 - Thursday lab on-campus assessment) - No student Moodle submissions required.

3. Online Quizzes:

- Online Quiz 1 - Opens Monday at 1000 AEST and closes at Tuesday 1800 AEST on Week 5
- Online Quiz 2 - Opens Monday at 1000 AEST and closes at Tuesday 1800 AEST on Week 12

4. On-Campus Activity: Professional behavior, Formative feedback and Lab attendance Record: Assessed throughout the term for students, professional behaviour, attendance, Moodle activity, participation and overall performance. Due Friday Week 12 18:00 AEST

- Lab Agreement (Assessment 4A) and Consent Form (Assessment 4B) Due Week 1 Friday 18:00 AEST

Practical Labs (Compulsory Labs and Practise Labs):

Attendance for all Labs and the Lab Orientation for this unit is COMPULSORY. There are five (5) compulsory practical labs allocated to this unit and a compulsory lab orientation held on Week 1 Thursday. The five (5) compulsory superficial structure [SS] labs are held on Thursdays for Weeks 2, 4, 6-7, 9. There is also a Week 12 Thursday Lab for when RESITS for the practical assessment will occur. Failure to attend any of the compulsory labs *may* result in a FAIL grade for the unit (see information below).

Manned practise sessions are held on Thursdays Weeks 8 and 11 and Friday Weeks 2 and 5. These are non-compulsory however highly recommended for the development of your scanning skills.

Unmanned (independent) practise sessions are held on Thursday Break week and Fridays Weeks 3, 6-8 and 11. These are non-compulsory however highly recommended for the development of your scanning skills.

Absenteeism/Lateness:

You **must** notify the unit coordinator and local lab staff (phone, email) before the start of compulsory labs if you are unable to attend or anticipate being late; this includes practical assessment days. In the event of a compulsory lab or practical skills assessment being missed, you will need to provide acceptable medical documentation to justify your absence. If labs are missed with valid reason (i.e. with supporting documentation), you are advised to contact the unit coordinator to organise time to make up for the missed scanning time. This 'make up' time will likely be offered as extra (manned) practise scanning time. Any lab missed without valid reason, supporting documentation, and prior notice or approval, (or being late to labs), will warrant a LiP (Lapse in Professionalism) point. You must notify staff before beginning scanning on any lab day or practise if you are injured or ill. In the event your condition could harm or negatively impact either yourself or those around you (e.g. put you at risk of exacerbating an injury, or pass on viral or bacterial infections to other students and staff), you will be sent home. If you cannot attend a practical skills assessment on the scheduled day due to illness or injury and have provided acceptable medical/supporting documentation, the unit coordinator will arrange for the practical skills assessment to be undertaken at another time.

As mentioned there are 4 manned practises (a tutor present) and 6 unmanned practises (independent) this term - these are not compulsory but have been found to be necessary to ensure enough practise to pass the practical skills assessments. If you are unable to attend an unmanned practise session (scheduled on Googledocs with your peers as patients/scanners), you need to give your partner for these sessions as much notice as possible. Professional behaviour is expected in labs and in association with this unit at all times - please see Assessment 4 for further information. Lack of professional behaviour during these sessions will warrant a LiP point.

There is a compulsory online WH&S Lab induction (video, power point and quiz) which must be completed before you can attend the sonography labs in any capacity (labs, manned practise, or unmanned practise).

Failure attend the Lab Orientation in Week 1 (due to failure in completing the online Lab induction) will consequently result in a FAIL grade. It is your responsibility to complete the induction as no labs or lab orientation may be attended until this is completed. You are required to adhere to the Sonography Labs Dress Code at all times when using the ultrasound simulation labs, including unmanned practises, and the CQU Zero Tolerance Policy will be followed - both of these aspects are covered by the Professional Behaviour assessment and failure to comply will result in Lapse in Professionalism points and potentially being asked to leave the lab (if in unsuitable or unsafe attire).

Important: As well as attending all compulsory Thursday labs, you must be available (all day) for SKILLS TEST and RESIT on Thursday of Week 9 and Week 12. This also includes your availability for Thursday and Friday of Week 11 when practises for resit assessments will occur.

Assessment Tasks

1 Technical Impressions Worksheet

Assessment Type

Written Assessment

Task Description

As a sonographer, it is necessary to record the result of the ultrasound examination accurately and within a timely manner. This includes commenting on the sonographic appearance of both normal and abnormal organs, including appropriate measurements (and units) and diagrams as necessary.

This 'technical impression worksheet' is a task which will assess your ability to record the results of a **modified** thyroid sonographic examination. This written assessment (worksheet) is challenged upon completion of the MOCK test (Week 7 Thursday Lab) utilising the information obtained during the scan. Please see information below:

Schedule of Written Assessment:

- You will review your images from your thyroid mock assessment on the ultrasound machine and utilising this information, fill out the worksheet following the Assessment 1 marking guidelines. In the event that you did not get all measurements, your tutor will provide some alternative (lobe) measurements so you can complete your worksheet.
- You will be given **five minutes** to complete the ultrasound worksheet. This will be done in front of your assessor whilst in the ultrasound bay.
- Upon completion of this assessment task, you will hand the completed worksheet to the on-campus staff member and/or assessor. No student Moodle submission is required for this assessment.

Assessment Due Date

Week 7 Thursday (29 Apr 2021) 6:00 pm AEST

Assessment to be completed using information obtained by the Mock Assessment (Thursday) in WEEK 7 Lab. The worksheet to be then collected by the on-campus staff member for submission.

Return Date to Students

Week 9 Thursday (13 May 2021)

The results of the assessment will be made available via the unit Moodle site. You will be informed of a pass/fail (P or F) within two (2) weeks of the due date.

Weighting

Pass/Fail

Minimum mark or grade

10/12 (10 marks out of 12 marks).

Assessment Criteria

The Written Assessment (technical impressions worksheet) is a summative assessment. It is a PASS/FAIL assessment and in order for a student to achieve a pass in this assessment they must:

- Achieve a mark of 10/12 (i.e. 10 marks out of 12 marks) or higher.
- Complete the required mandatory sections within the worksheet accurately. These mandatory sections, outlined as 'bolded items' by the marking guideline, are sections within the worksheet that **must** be filled in with the correct information and/or in the correct format in order to pass. Failure to complete all of these mandatory sections correctly will result in an automatic FAIL grade for this assessment.
- In the event that a student FAILS this assessment, one chance will be given for the student to resit this assessment task.
- The second chance to complete this assessment correctly will be on Week 9 Thursday Lab (i.e. SKILLS TEST day). This resit opportunity for this assessment will be attempted upon completion of the practical assessment (using images obtained in the SKILLS TEST). This resit opportunity will be given the same conditions as the first attempt (as stated above).

Referencing Style

- [Vancouver](#)

Submission

Offline

Submission Instructions

Completed worksheets to be submitted to on-campus tutors following end of Week 7 Lab session.

Learning Outcomes Assessed

- Apply knowledge of anatomy, physiology and embryology of superficial structures to the sonographic examination.
- Differentiate the clinical appearance, sonographic appearance and aetiology of pathologies of superficial structures.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

2 Practical Skills Test - Modified Thyroid

Assessment Type

Practical Assessment

Task Description

As a sonographer, it is necessary to perform an ultrasound examination accurately and within a timely manner. This includes following a set protocol, surveying an organ in its entirety, recognising normal and abnormal structures and documenting the examination by obtaining representative sonographic images. All this must be done whilst adhering to the sonographer scope of practice, professional conduct and maintaining good patient care and ergonomics throughout the examination. This assessment challenges your ability to perform routine sonographic scanning techniques and image optimisation / acquisition of the thyroid in a reasonable time period to advanced beginner level. It will be assessed using the Assessment of Readiness for Clinical (ARC) Tool or eARC (electronic version of the ARC Tool), including professional (pre-scan, during, and post-scan) and technical (scanning) requirements. These are outlined as follows:

Professional (pre-scan, during, and post-scan) requirements:

- Apply patient care techniques and effective communication to obtain relevant patient history, informed consent, and to direct 'patients' accordingly
- Apply professionalism in dealing with equipment and the scanning setting

Technical (scanning) requirements for a modified Thyroid examination:

- You are required to perform routine sonographic scanning techniques, image optimisation, and acquisition, in a specific time period to advanced beginner level. A scanning time limit of 15 mins is applied to this assessment and the you are to follow the outlined thyroid protocol.
- Demonstration videos on both the technical and professional component of the Practical Assessment has been provided. This should be used as a 'guidance' only as its aim is to assist you *visualise* the requirement of the practical thyroid examination. You must follow the protocol when performing this examination whilst being mindful that your scanning skill and technique will need to be adapted based on the patient requirements.
- You will be assessed using the ARC tool, which is available on the unit Moodle site. This ARC tool is a marking guideline for the practical assessment. Your assessors may use the eARC (electronic version of the ARC tool) to assess you on the day.
- No student Moodle submission is required for this assessment.

This is a PASS/FAIL assessment. To pass this assessment, both the professional and technical components must be graded as a 'pass'. The components are graded separately so that if one is passed and the other is not, only the failed component must be repeated to pass. If you have failed only the professional component, the full assessment will be repeated, but you will only be marked on the professional component. There is only ONE opportunity to re-sit either component of the assessment item.

Please carefully review the assessment information and ARC tool posted on the unit Moodle site and unit Overview.

Assessment Due Date

Week 9 Thursday (13 May 2021) 6:00 pm AEST

Students will be assessed on their practical SKILLS TEST via an ARC tool (or eARC) on WEEK 9 Thursday Lab. The ARC tool (or eARC) will then be submitted by the on-campus staff member.

Return Date to Students

Week 11 Tuesday (25 May 2021)

The results of the assessment (PASS/FAIL) will be made available via the unit Moodle site. Individual marks (or ARC tool) will not be released to students. You will given feedback (ARC tool back-page) on your general performance for the practical assessment.

Weighting

Pass/Fail

Minimum mark or grade

65%

Assessment Criteria

The skills test will assess scanning technique, image optimisation, demonstration of required anatomy on images obtained, and adherence to scan protocols. The non-scanning component will assess communication, professional behaviour, patient care, infection control, and ergonomics. The sonography tutor will observe the student's performance of the full scanning procedure and assess each task relative to the stated standards of the ARC tool. The ARC tool and

supporting details can be found on the unit Moodle site.

Please ensure to bring in a hard copy of the ARC tool to your Mock Assessment (week 7) should your assessor need to use it on the day. If you do not bring (or forget to bring) in a paper (hard copy) of the ARC tool on the day of your Mock Assessment day, this may warrant a LiP point. You do not require to bring in (hard copy) of the ARC tool on your assessment day (WEEK 9 SKILLS TEST) as this will be arranged and prepared by the on-campus staff.

The criteria to receive a PASS grade for Practical Assessment 2 [SKILLS TEST] are as follows:

- A pass mark of 65% for both Technical and Professional components.
- Professional Component: All **bolded items** in the professional component must be achieved (completed accurately) in order to pass the assessment. Failure to do any of the bolded items results in a FAIL grade for the professional component of the practical assessment.
- Technical Component: Please review the ARC tool for specific marking guidelines for the technical component of the practical assessment.

All assessments will be marked by *at least* one assessor. Often this will include your assessor on the day and one co-coordinator (from another campus) and/or unit coordinator. Your grade (PASS/FAIL) will be allocated upon completion of all marking, moderating and reviewing of the practical assessment.

Practical Assessment 2 RESIT Information:

In the event that a student does not achieve a minimum of 65% or higher or fails one of the bolded items in the professional component of the ARC tool, they will be given ONE opportunity to resit the technical and/or professional components on the Week 12 Thursday Lab. If the student has failed only the professional component, the full assessment will be repeated but the student will only be marked on the professional component. For this, the 'technical component' will be performed until all required professional actions can be demonstrated. If the student has failed only the technical component, only this component will need to be reassessed during the resit opportunity.

Please be aware that all practical skills assessments will be video recorded. Videos may be viewed by CQU sonography staff and tutors for the purposes of marking and moderation of assessments. It also may be required to be viewed by other CQU staff in the event of a student requesting a review and/or appeal of grade. However the videos will not be released to students for review. Please be aware that the ARC tool (or specific marks within the ARC tool) will not be available to review due the PASS/FAIL nature of the assessment. All students will be given the back feedback page (with detailed comments) and an opportunity for a feedback session to discuss overall performance of the practical assessment.

Referencing Style

- [Vancouver](#)

Submission

No submission method provided.

Submission Instructions

No student Moodle submissions required.

Learning Outcomes Assessed

- Apply knowledge of anatomy, physiology and embryology of superficial structures to the sonographic examination.
- Differentiate the clinical appearance, sonographic appearance and aetiology of pathologies of superficial structures.
- Analyse clinical scenarios to provide a differential diagnosis and produce a sonographic report.
- Apply the practical skills and critical thinking necessary to perform a sonographic examination of the thyroid.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

3 Online Quizzes

Assessment Type

Online Quiz(zes)

Task Description

It is necessary for a sonographer to have a thorough understanding of the anatomy, physiology of structures being sonographically examined. It is also important to recognise sonographic appearance of normal, variants and abnormal structures in ultrasound as well as associated pathologies and clinical indications. This assessment requires students to

demonstrate their ability to understand basic anatomy, physiology, clinical indications and sonographic appearance of normal and abnormal structures within the domain of superficial structures.

There will be **two separate online tests** (quizzes) to assess your knowledge of the unit material. These are open book, and will be held in **Weeks 5 and 12**. Once available, the quiz will be open for 32 hours (i.e. open at 10:00 AEST Monday and close Tuesday at 18:00 AEST).

- The content of these quizzes will be anatomy, scanning planes, image optimisation, pathology, patient care, communication, ergonomics, sonographic terminology, and infection control. Each quiz will have 20 questions. You will be allowed **ONE** attempt at each quiz.
- Once the quiz has commenced, approximately 1 minute per question will be given, for example, a 20 question quiz would be given a time limit of 20 minutes to complete.
- Quiz dates and topics are available on the unit Moodle site.
- In the event that you are unable to complete the quiz in the allocated time and have suitable medical documentation for exceptional circumstances as discussed under Term Specific Information in this Unit Profile, you need to notify the unit coordinator by email before the end time of the quiz (Tuesday 1800 AEST) to be granted an extension to the quiz time.
- Failure of technology or sudden interruptions is not recognised as reasonable grounds for an extension request, so ensure plenty of time prior to the quiz closing to attempt the quiz.
- If you do not have adequate internet capacity at home, please ensure you attempt the quiz on campus premises in a quiet area.
- In the absence of an approved extension, there will be no opportunity to complete a quiz after it has closed.

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

Week 5 Tuesday (6 Apr 2021) 6:00 pm AEST

Quiz 1 is open at 1000 AEST Monday and closes 1800 AEST on Tuesday Week 5. Quiz 2 is open at 1000 AEST Monday and closes 1800 AEST on Tuesday Week 12

Return Date to Students

Review/Exam Week Friday (11 June 2021)

Students will receive their score (quiz specific mark) via the unit Moodle site once all students have completed the quiz.

Weighting

Pass/Fail

Minimum mark or grade

70% cumulatively

Assessment Criteria

Students must achieve a **cumulative** pass rate of 70% across both (two) (2) quizzes to pass this assessment. **Failure to complete one quiz means a maximum possible cumulative score of 50% = a FAIL for the quiz assessment and a fail grade for MEDS12003.**

- Students will receive their score for each quiz once all students have completed that quiz. Questions and answers in the quiz should not be discussed between students as there may be students who have approved extensions who may not have attempted the quiz at the time.
- Each quiz will have 20 questions with a 20min time limit. You will only be allowed **ONE** attempt at each quiz.
- In the event that you fail to reach this standard, you will receive a FAIL grade for Assessment 3.

This is an open book quiz, so you have the opportunity to consult your notes, lecture slides, text books, and unit Moodle page. Answers will either be correct or incorrect and it will be tabulated by the unit's online Moodle system however you will not be able to see the grade until all students in the cohort have completed this assessment. This assessment is to be undertaken as an individual. Please see the Academic Misconduct Procedure document for implications of misconduct.

Referencing Style

- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

- Apply knowledge of anatomy, physiology and embryology of superficial structures to the sonographic examination.
- Differentiate the clinical appearance, sonographic appearance and aetiology of pathologies of superficial

structures.

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

4 Professional Behaviour Assessment and Formative Feedback and Lab Attendance Record

Assessment Type

On-campus Activity

Task Description

Professional behaviour is a critical part of any medical imaging profession, and encompasses the manner in which we treat our colleagues, patients, and the professional settings and equipment provided to us. The purpose of this assessment is to ensure that students from the medical sonography course are well-equipped to embody the high standards of professionalism that are expected from CQUniversity students while on their upcoming clinical placements. Professional conduct includes, punctuality, role integrity, accountability and coachability. It also includes proper conduct in and outside of the lab environment as per set guidelines and rules/regulations.

This assessment will require you to treat each of your lab sessions as a scheduled "work shift" and to exhibit high quality professional attributes to ensure you are prepared to enter the work force with the skills required to provide safe patient care and professional behaviour. As such, this assessment is based on continuous and ongoing assessment of student application and attendance during labs. Note this extends to all behaviour exhibited by you during your time studying this unit, up until the end of exam week. This includes participation in forums and online tutorials, labs, GoogleDocs booking system, social media etiquette, team work, attitude towards constructive feedback, attitude towards peers and staff, and all official correspondence with university staff and peers.

Expected behaviour and its relevance to the clinical environment is listed under the Assessment 4: Professional Behaviour Assessment Description on the unit Moodle site. You must review this information and be aware of what is expected of you for this unit. It is very important that you familiarise yourself with the CODE OF CONDUCT in the Lab Manual as well as ASAR CODE OF CONDUCT and the CQU CODE OF CONDUCT. All of these documents are posted on the unit Moodle site for your information. Below is a list of areas this on-campus assessment assess:

- Student application - live active participation in Moodle activities (such as discussions through the Case of The Week Forum).
- Student attendance' - recording 100% lab attendance which is sighted and signed by the on-campus tutor.
- Student unit 'engagement' - frequent discussion on Q&A and Zoom participation.

The 'Formative Feedback, Application and Lab Attendance Record' is the document which assesses the above areas. It records student engagement and on-campus activity and throughout the term. It allows student to monitor your performance in each lab (through tutor formative feedback), record lab attendance and document variety of Moodle activities. **This document is one of the (main) submissions required for Assessment 4 due in Week 12 Friday at 1800 AEST.**

Submissions for Assessment 4 includes:

1. Signed Lab Agreement Form, upload to the unit Moodle site under Lab Agreement (Assessment 4A) - **Due Week 1 Friday 1800 AEST**
2. Signed Consent Form, upload to the unit Moodle site under Consent Form (Assessment 4B) - **Due Week 1 Friday 1800 AEST**
3. Formative Feedback and Lab Attendance Record, upload under Assessment 4: Formative Feedback and Lab Attendance - **Due Week 12 Friday 1800 AEST.**

Please submit these documents in PDF format only under the relevant Assessment Item. Failure to submit these documents by due time and specification will result in a LiP point.

Assessment Due Date

Week 12 Friday (4 June 2021) 6:00 pm AEST

Please submit these documents (in PDF format only) as 3 separate files under the relevant Assessment 4 submissions task and due date.

Return Date to Students

Exam Week Friday (18 June 2021)

The results of the assessment will be made available via the unit Moodle site. You will be informed of a pass/fail (P or F) within two (2) weeks of the due date.

Weighting

Pass/Fail

Minimum mark or grade

PBA Rubric: 12/15 (with less than 4 LiPs accumulated throughout term). Completed Formative Feedback and Lab Attendance Record (minimum criteria stated above)

Assessment Criteria

If unprofessional attitude or behaviour is reported, a staff member will follow this incident and if deemed appropriate, a LiP (lapse in professional) point will be issued. When a LiP is issued, it will be discussed between the student and either the on-campus lecturer or the unit coordinator. Written documentation explaining the reason for the issued LiP point will be signed by the on-campus lecturer, tutor or the unit coordinator and sent to the student via email.

LiPs

All interactions with staff and peers pertaining to this unit will be treated as a replica of the clinical work environment. You will be expected to demonstrate all of the professional behaviour that will be expected of you in a formal work environment. LiPs can be issued in three different categories:

1. Professional behaviour towards colleagues and staff,
2. Professional behaviour towards patients, and
3. Professional behaviour towards professional settings and equipment and clinical (lab) environment.

Up to **THREE** LiPs can be issued before the assessment is graded as a FAIL. **However, if any exhibited attitude or behaviour is deemed as unsafe or inappropriate for clinical practice, the professional behaviour assessment will be graded as a FAIL at the discretion of the unit coordinator.**

Formative Feedback and Lab Attendance Record:

Overall performance (tutor comments), participation (lab attendance), professional behaviour (LiP record) and Moodle activity (application record) are monitored via the '**Formative Feedback, Application and Lab Attendance record**' document. Less than 100% compulsory Lab attendance (unless otherwise discussed with unit coordinator) and poor engagement with Moodle interaction will be graded as a FAIL for this Assessment.

Note: You will be required to bring this 'formative feedback' document in for each of your labs in Weeks two to six (2 - 6) (i.e. Labs 1-3), but not for the dates of your Lab Orientation, Mock (pre-preparation test) and Skills Test (practical assessment) as this will be assessed via the ARC tool. If you do not bring (or forget to bring) in your Formative Feedback and Lab Attendance Record on the day of your Compulsory Lab, this will warrant a LiP point. Inadequate Moodle interaction can be determined as students who do not log onto the MEDS12003 Moodle site frequently (minimum requirement at least once a week) and students who do not participate in at least one (1) 'Case of the Week' discussion through the 'Case of the Week Forum'. Required specification for this discussion is outlined in the Formative Feedback and Lab Attendance Record document. It is also highly recommended to participate in Q&A forums throughout the term to address any unit specific queries.

Submissions for Assessment 4 includes:

1. Signed Lab Agreement Form, upload to the unit Moodle site under Lab Agreement (Assessment 4A) - **Due Week 1 Friday 1800 AEST**
2. Signed Consent Form, upload to the unit Moodle site under Consent Form (Assessment 4B) - **Due Week 1 Friday 1800 AEST**
3. Formative Feedback and Lab Attendance Record, upload under Assessment 4: Formative Feedback and Lab Attendance - **Due Week 12 Friday 1800 AEST.**

Please submit these documents in PDF format only under the relevant Assessment Item. Failure to submit these document by due time and specification will result in a LiP point or even FAIL grade.

Professional Behaviour Assessment Rubric:

This is a **PASS/FAIL assessment**. This assessment is marked using the Professional Behaviour Assessment (PBA) rubric and incorporates LiPs (lapses in professionalism). If a student accrues more than **THREE** LiPs (Lapse in Professionalism) points, a Professional Behaviour Assessment Rubric is issued by the UC and the Assessment is graded as a FAIL. If a student accrues *less than three* LiP points, then the PBA is *not* issued by the UC which means the student can PASS this Assessment 4. *The rubric will only be issued by the UC in the event of a student receiving more than 3 LiP points thus a FAIL grade for Assessment 4.* To summarise, to pass the PBA rubric the student can only **accrue a maximum of three LiPs across all descriptor in total** (thus a PBA score of 12/15). If a fourth LiP is issued, the UC will issue a PBA rubric as the maximum PBA rubric mark would be 11/15 thus a FAIL grade for Assessment 4.

If a PBA Rubric needs to be issued the UC will manage this documentation. The UC will complete the PBA and discusses the outcome of the PBA rubric with the student. Both UC and student are required to sign this document and the student will need to upload it on the Moodle site. The UC will provide a copy to the student and will retain the original.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

A Pass/fail grade will be uploaded to the unit Moodle site within (two) 2 weeks of due date.

Learning Outcomes Assessed

- Apply the practical skills and critical thinking necessary to perform a sonographic examination of the thyroid.

- Display professional behaviour, teamwork and communication skills and criteria to meet safe sonographic practice

Graduate Attributes

- Communication
- Problem Solving
- Team Work
- Cross Cultural Competence
- Ethical practice

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