ECHO12003 *Principles of Cardiac Assessment*
Term 2 - 2018

Profile information current as at 14/12/2025 04:55 am

General Information

Overview
An understanding of the concepts of invasive and non-invasive diagnostic and therapeutic procedures of the cardiovascular system is necessary in the field of echocardiography. In this unit you will acquire knowledge of the principles and technical components of cardiac assessment and therapeutic procedures in cardiovascular disease, focusing on echocardiography. You will apply your knowledge to case studies with cardiac assessment data, particularly echocardiographic images, to contrast the choice of procedure, calculate pressures, formulate differential diagnoses and plan patient management strategies within an ethical framework of best practice and patient safety. You will compare the outcome of echocardiographic investigations to procedures performed in the cardiac catheterisation laboratory. You will perform the standard echocardiographic protocol, with colour and spectral Doppler, in the simulated lab environment demonstrating professional behaviour and reflective practice. Attendance is required at practical activities.

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
Pre-requisite: ECHO12006 Cardiac Science ANDMEDS12001 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 2 - 2018

- 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. **Online Test**
Weighting: 40%
2. **Practical Assessment**
Weighting: Pass/Fail
3. **Performance**
Weighting: Pass/Fail
4. **Reflective Practice Assignment**
Weighting: Pass/Fail
5. **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 evaluations, emails from students and discussions with staff.

Feedback
Students and staff struggled with Moodle page table format (3 streams) as links constantly broke.

Recommendation
Move away from table format.

Feedback from Student evaluations and discussions during tutorials.

Feedback
Group task assessment was perceived as too complicated by students.

Recommendation
Assessment task will be rewritten, and an assessment video can be produced to assist students.

Feedback from Student evaluations and discussions during tutorials.

Feedback
This unit comprised multiple streams which are produced by different lecturers. Hence, the teaching style used also differed, and the students struggled to transition between the two.

Recommendation
We will attempt to address this by giving lecturers clear structure guidelines on how to present material so that it is more uniform in format.

Unit Learning Outcomes

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

1. Contrast the aetiology, diagnostic and therapeutic processes in cardiovascular disease, with particular reference to echocardiography
2. Analyse, and contrast, cardiac assessment data to calculate pressures, formulate differential diagnoses and plan patient management strategies
3. Perform the standard echocardiographic protocol with colour and spectral Doppler
4. Display professional behaviour, teamwork and communication skills consistent with safe practice
5. Apply constructive feedback to professional practice improvement.

Linked to National and International Standards
1. ASAR Accreditation Standards for Cardiac Sonography - critical practice Unit 8 - Cardiac
2. European Association of Cardiovascular Imaging Core Syllabus
3. American Registry for Cardiac Sonography Core Syllabus

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level • Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Online Test - 40%	•	•			
2 - Practical Assessment - 0%			•		
3 - Performance - 0%				•	
4 - Reflective Practice Assignment - 0%					•
5 - 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 - Practical Assessment - 0%	•	•	•	•		•	•	•		
3 - Performance - 0%	•	•	•	•	•	•	•	•	•	
4 - Reflective Practice Assignment - 0%	•	•	•	•		•		•		

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

Textbooks and Resources

Textbooks

ECHO12003

Prescribed

A Sonographer's Guide to the Assessment of Heart Disease
Edition: First (2016)
Authors: Bonita Anderson
Echotext
Brisbane , QLD , Australia
ISBN: 978-0-9923222-0-5
Binding: Hardcover
ECHO12003

Prescribed

Echocardiography: The Normal Examination and Echocardiographic Measurements
Edition: 3rd (2017)
Authors: Bonita Anderson
Echotext
Brisbane , QLD , Australia
ISBN: 978-0-9923222-1-2
Binding: Hardcover
ECHO12003

Prescribed

The Cardiac Catheterization Handbook
Edition: 6th (2015)
Authors: Morton J. Kern, Paul Sorajja, Michael J. Lim
Elsevier
US
ISBN: 9780323340397
Binding: eBook

Additional Textbook Information
These prescribed textbooks will be utilized across a number of units throughout the CV69 course.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing style: Vancouver
For further information, see the Assessment Tasks.

Teaching Contacts

Paula Boucaut Unit Coordinator
p.boucaut@cqu.edu.au

Schedule

Week 1 - Colour Doppler - 09 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Colour Doppler: • Introduction to Colour Doppler • Colour Doppler Optimisation • The Colour Doppler Examination	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 7; p 129-137 Chapter 8; p 139-148	You are required to upload: • Professional Behaviour Assessment: Lab Agreement and Consent Form All Due 4:00pm AEST FRIDAY

Week 2 - Spectral Doppler - 16 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Spectral Doppler: • Introduction to Spectral Doppler • Spectral Doppler Optimisation • Explaining the Doppler Waveforms • Basic Doppler Measurements	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 5; p 83-103 Chapter 6; p 105-128	

Week 3 - Artefacts in Spectral and Colour Flow Doppler - 23 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Artefacts in Spectral and Colour flow Doppler	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 5; p 100-102 Chapter 7; p 135-137	

Week 4 - Introduction to Doppler Haemodynmaic Calculations; CCL - The FICK Method - 30 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
• Introduction to Doppler Haemodynamic Calculations • Cardiac Catheterisation – CO calculations using the FICK method	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 11; p 203-231 Kern, M. The Cardiac Catheterization Handbook Chapter 4; p 175-238	

Week 5 - Pressure Estimation using Tricuspid and Pulmonary Regurgitation; CCL - The FICK Method Worksheets - 06 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
• Pressure estimation using Tricuspid and Pulmonary Regurgitation • Cardiac Catheterisation – The FICK method worksheets	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 11; p 213-230 Kern, M. The Cardiac Catheterization Handbook Chapter 4; p 175-238	

Vacation Week - 13 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - Findings in Pulmonary Hypertension; CCL - Cardiac Output Methodologies (Invasive) - 20 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic

	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 11; p 204t, 80f, 187t, 199-200 199f, 220f	
• Findings in Pulmonary Hypertension • Cardiac Catheterisation – Other CO methodologies (invasive)	Anderson, B. Echocardiography / A Sonographer's Guide to the Assessment of Heart Disease Chapter 4; p 96-111 Kern, M. The Cardiac Catheterization Handbook Chapter 4; p 175-238	

Week 7 - Diastolic Heart Function; CCL - Cardiac Output Methologies (Non-Invasive) - 27 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
• Diastolic heart function • Cardiac Catheterisation – Other CO methodologies (non-invasive)	Anderson, B. Echocardiography / The Normal Examination and Echocardiographic Measurements Chapter 15, pages 295-316 Anderson, B. A Sonographer's Guide to the Assessment of Heart Disease. Chapter 3, pages 57-85 Chapter 4, pages 87-112 Kern, M. The Cardiac Catheterization Handbook Chapter 4; p 175-238 ASE Guidelines 2016 - Recommendations for the Evaluation of Left Ventricular Diastolic Function by Echocardiography	The Online test opens 8.00am Monday 27th August. Maximum test time is 120 minutes (2 hours). Ensure you allow sufficient time to complete before test closes. **Online Test** Due: Week 7 Friday (31 Aug 2018) 4:00 pm AEST

Week 8 - Findings in Systemic Hypertension; CCL - Catheters, Guides and Wires - 03 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
• Findings in Systemic Hypertension • Cardiac Catheterisation – Catheters, Guides and Wires	Anderson, B. Echocardiography / A Sonographer's Guide to the Assessment of Heart Disease Chapter 4; p 87-95	

Week 9 - Qualitative Assessment of MR and AR; CCL - Percutaneous Coronary Interventions - 10 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
• Qualitative assessment of mitral regurgitation • Qualitative assessment of aortic regurgitation • Cardiac Catheterisation – Percutaneous coronary interventions (PCI)	Anderson, B. A Sonographer's Guide to the Assessment of Heart Disease. Chapter 7, p 177-176; p 196-212 Chapter 8, p 215-216; p 235-252 Kern, M. The Cardiac Catheterization Handbook Chapter 10; p 419-416 ASE Guidelines and Standards - Recommendations for Noninvasive Evaluation of Native Valvular Regurgitation	

Week 10 - Qualitative Assessment of TR and PR; CCL - Acute Coronary Syndromes - 17 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic

• Qualitative assessment of tricuspid regurgitation • Qualitative assessment of pulmonary regurgitation • Cardiac Catheterisation – Acute Coronary Syndromes	Anderson, B. A Sonographer's Guide to the Assessment of Heart Disease. Chapter 9, p 255-257; p 264-274, p 276-277; p 284-290 ASE Guidelines and Standards - Recommendations for Noninvasive Evaluation of Native Valvular Regurgitation	

Week 11 - Clincal Case Studies - 24 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
• Clinical Case Studies		• 2D ECHO MOCK Practical Skills Assessment scheduled for Tuesday 25th September • MOCK QLab Measurement assessment will be conducted offline using workstations in computer laboratory on Tuesday 25th September • FINAL 2D ECHO Practical Skills Assessment scheduled for Friday 28th September. • FINAL QLab Measurement assessment will be conducted offline using workstations in computer laboratory on Friday 28th September. **2D, Colour and Spectral Doppler Practical Skills Assessment (including QLab measurement assessment)** Due: Week 11 Friday (28 Sept 2018) 5:00 pm AEST

Week 12 - Revision - 01 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
Revision		• RESIT 2D ECHO Practical Skills Assessment and QLab Measurement Assessments scheduled for Friday 5th October. Upload: • **Reflective Practice Assessment**: completed Formative Feedback forms x8 and Mock Skills Feedback form x1 • **Professional Behaviour Assessment**: completed Professional Behaviour Assessment Rubric and Lab Attendance Page **Professional Behaviour Assessment** Due: Week 12 Friday (5 Oct 2018) 4:00 pm AEST **Reflective Practice Assessment** Due: Week 12 Friday (5 Oct 2018) 4:00 pm AEST

Review/Exam Week - 08 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 15 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

This unit contains pre-recorded lectures introducing you to the Echocardiographic application of colour and spectral Doppler. A number of cardiac catheterisation lectures will also be provided, comparing and contrasting assessment data between the different modalities.
Each week live tutorial sessions will be hosted by a lecturer. Weekly tutorial schedule and Zoom ID link can be found on Moodle site. Tutorials will be recorded and subsequently posted under the corresponding week on Moodle. The tutorials will focus on clarification of course concepts and/or assessment requirements and clinical case studies which will link the course content with clinical practice. To give yourself the best chance of success with the unit, please ensure that you undertake all the additional readings and activities that are provided to you.
Skills labs for this course are mandatory. During weekly labs, you will learn to apply the theoretical knowledge learnt in a practical setting. Labs missed for a valid reason require supporting documentation, and students are advised to contact the unit coordinator to organise time to make up for the missed scanning time during practice sessions. Any lab missed without valid reason or supporting documentation will warrant a 'lapse in professionalism'. Please pay close attention to the lab schedule for this unit. The routine lab schedule will vary some weeks. The campus specific weekly lab schedule can be found on the Moodle site. Students are required to adhere to the Course Dress code when using the ultrasound simulation labs and a 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'.
Absenteeism / What you need to know if you are off sick:
Skills labs for this unit are mandatory. You must notify staff and the unit coordinator before the start of compulsory labs if you are not able to attend - failure to notify staff (email, phone) before the start of a missed lab will result in a LiP point except in extraordinary circumstances. In the workplace, it is imperative that colleagues and patients who are depending on you are aware of whether you are attending your shift or not. Labs missed for a valid reason require supporting documentation, and students are advised to contact the unit coordinator to organise time to make up for the missed scanning time during practice sessions as soon as possible after missing the lab. Any lab missed without valid reason and supporting documentation, and/or prior approval will warrant a LiP point.
Sick Certificates:
Medical or health-related certificates must be in the approved formats articulated in the CQUniversity Assessment Policy and Procedure (HE Coursework), section 4.53. Please note, 4.53(f), A required medical or health-related certificate 'in the approved form' meets all the following criteria: Contains sufficient evidence to enable an informed decision regarding the application. Non-specific statements that are not acceptable include but are not limited to the following: "the student is not fit for duty" and "the student is suffering from a medical condition or illness". A statement that "the patient is, in my opinion, suffering from a medical condition, the exact nature of which I cannot divulge for reasons of patient privacy" would be acceptable. You must notify staff before beginning scanning on any day (compulsory labs, manned practice, unmanned practice, and practical skills assessments) if you are injured or ill. In the event that 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 and, in the event of it being a compulsory lab or practical skills assessment, will need to provide acceptable medical documentation for your absence, as described above. Students who are sick and/or injured and cannot attend a practical skills assessment on the scheduled day must notify the unit coordinator (email, phone) and local campus staff (in person, phone, email) before the start of their assessment. The practical skills assessment will be postponed to another day.
Important:
All students must ensure availability to attend campus during week 11 and 12 for practical examinations and re-sits. This is a compulsory requirement. You may be requested to act as a patient model for your peers. The Unit coordinator is responsible for student allocation of patient models for peer assessments. Students are not consulted in this process.
Contacts:
Please feel free to use the 'General Discussion' forum as a social space to communicate with other students in this course across the Sydney and Perth campuses. Please ensure that your conduct in this forum is consistent with that outlined in the Student Charter.
Teaching staff will monitor posts on the 'Q&A' forum. The Q&A forum is a great place to post questions relevant to your study or laboratory sessions. Responses from staff will be made available to all students. Don't be shy in asking questions, as you will often find that other students also share your query.
Alternatively, if you have a personal question, please do not hesitate to contact me directly by email: p.boucaut@cqu.edu.au or phone 07 3023 4108.

Assessment Tasks

1 Online Test

Assessment Type
Online Test

Task Description
Each heath profession possess a body of knowledge, the fundamentals of which must be learnt and understood. The echocardiographic profession has selected concepts relevant to your future scope of practice. These concepts will be built upon through future clinical experience.
An online test will be conducted to assess your understanding of content in this unit. The test can be accessed through the assessment tab on Moodle at the assigned time.

- The online test will comprise of 10 questions and will be open for 120 min (allowing 12 minutes per question). You have ONE attempt and once started the test cannot be paused or restarted.
- Questions may be composed of multiple components, multiple choice, short answer, image interpretation or essay style format. You will have up to 40 lines available for written answers per question.
- As the test is online and open book, you will find it useful if you have produced your own notes from the lectures and that you are familiar with the unit information.
- The questions may be drawn from any content presented up to and including week 5, including but not limited to lectures, additional resources provided or tutorial presentations.
- Questions will be drawn from a pool of questions to allow tests to be different for each student.
- You may benefit from having a calculator available when sitting the test

This assessment is to be undertaken as an individual. As with all other university examination, colluding with other students on non-group work tasks is considered academic misconduct, and may lead to action being taken the Deputy Dean of Learning and Teaching HMAS.

Assessment Due Date
Week 7 Friday (31 Aug 2018) 4:00 pm AEST

The test will be open from 8.00am Monday 27th August, to 4.00pm Friday 31st August during week 7.

Return Date to Students

Results will be made available once submissions have been marked and moderated.

Weighting
40%

Assessment Criteria
You must provide short to medium length typed responses to a series of online questions.
Multiple choice and film viewing questions may be included and you are required to be familiar with both normal and pathological echocardiographic and anatomical images.
Each question is worth 10 marks (giving a max total of 100 marks available).
Responses will be assessed according to:

- use of appropriate terminology and descriptors as well as grammar, spelling, relevance of response and competence in addressing all elements of the question
- the student's ability to appropriately interpret sonographic images/graphs/tables and then to succinctly compose an appropriate response based on their learning from the unit

Referencing Style

- Vancouver

Submission
Online

Submission Instructions
The Online test is accessed via the assessment tab in Moodle. Once the test is commenced, it cannot be paused, stopped or re-started and once you have completed the test, it cannot be retaken. The test will be open from 8.00am Monday 27th August, to 4.00pm Friday 31st August during week 7. Please note: You must commence the test before Friday 2.00pm as the test will automatically close at 4.00pm on Friday. If you have not competed the test by this time, your test may be submitted with no answers. It is your responsibility to ensure you have the test well and truly completed before 4.00pm on Friday 31st August 2018.

Learning Outcomes Assessed

- Contrast the aetiology, diagnostic and therapeutic processes in cardiovascular disease, with particular reference

to echocardiography
- Analyse, and contrast, cardiac assessment data to calculate pressures, formulate differential diagnoses and plan patient management strategies

Graduate Attributes

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

2 2D, Colour and Spectral Doppler Practical Skills Assessment (including QLab measurement assessment)

Assessment Type
Practical Assessment

Task Description
This assessment requires you to perform a complete Echocardiogram practical skills test (2D, colour and spectral Doppler) and QLab measurement assessment. Professional and technical scanning requirements are discussed in the unit lab manual, lab sessions, lectures and tutorials. This is a PASS/FAIL assessment.

Components are as follows.
Echocardiogram practical skills test

(1) Professional (pre-scan, during and post-scan) requirement:

- Apply correct 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.

(2) Technical (scanning) requirements for echocardiographic study:

- Demonstrate appropriate echocardiographic scanning technique, image optimisation, and acquisition, in a reasonable time period to an 'advanced beginner level' of competency. A scanning time limit of 1 hour will be applied to image acquisition. Students will be practically assessed using the ARC tool for 2D, colour and spectral Doppler practical skills assessment, and students are advised to carefully review this document.

QLab measurement assessment

- Perform a series of offline measurements using the QLAB workstations. A 30 min time limit will be applied to measurement acquisition and students will be assessed using the 'Assessment of Readiness for Clinical' (ARC) tool for QLAB.

To pass this assessment, all components of the Echocardiogram practical skills test (1) and (2) and QLab measurement assessment must be graded as a 'pass'. The components are graded separately, so that if one is passed and another is not, only the failed component must be repeated to pass. If you fail only the professional component, the full practical scanning assessment will be repeated, but you will only be marked on the professional component.

Assessment Due Date
Week 11 Friday (28 Sept 2018) 5:00 pm AEST

Practical and Qlab assessment will take place during week 11 on Friday the 28th of September. Should a student fail, there is only ONE opportunity to re-sit either component of the assessment item. Re-sits will be held on Friday the 5th of October.

Return Date to Students

Moderation of assessment marks needs to take place prior to students being advised practical assessment results. Students will be advised as soon as possible of their practical assessment results. Resit assessment which will be held on Friday 5th October 2018 during Week 12.

Weighting
Pass/Fail

Minimum mark or grade
Beginner level competency - minimum 65% mark to obtain a PASS for these assessment components. This assessment does not carry a weighting toward the final unit grade.

Assessment Criteria
To pass this assessment, ALL components of the Echocardiogram practical skills test (1) and (2) and QLab measurement assessment must be graded as a 'pass'. The components are graded separately, so that if one is passed and another is not, only the failed component must be repeated to pass. If you fail only the professional component, the full practical scanning assessment will be repeated, but you will only be marked on the professional component.
You will be practically assessed using the **ARC tool for 2D, colour and spectral Doppler practical skills assessment** (including professional and technical components), and the **ARC tool for QLab**. Students are advised to carefully review these documents which are available on the unit Moodle site.

Re-evaluation options:
In the event that you do not achieve a minimum 65% or higher (or fail one of the bolded items in the professional component of the ARC tool), you will be given ONE opportunity to re-sit the technical and/or professional components or QLab assessment (whichever is applicable) in week 12. Should a student fail any component, there is only ONE opportunity to re-sit the assessment item/s. Please be aware that the Echocardiogram practical skills tests will be video recorded for moderation purposes. The videos will not be released to students for review.
ALL STUDENTS ARE REQUIRED TO MAKE THEMSELVES AVAILABLE TO ACT AS A PATIENT MODEL FOR PEER ASSESSMENT IF REQUESTED BY UNIT COORDINATOR. THIS INCLUDES THE RESIT ASSESSMENT.

Referencing Style

- Vancouver

Submission
Offline

Learning Outcomes Assessed

- Perform the standard echocardiographic protocol with colour and spectral Doppler

Graduate Attributes

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

3 Professional Behaviour Assessment

Assessment Type
Performance

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 echocardiography course are well-equipped to embody the high standards of professionalism that are expected from CQUniversity students while on their upcoming clinical placements. 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 in 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, social media etiquette, phone calls, attitude towards peers and staff, and all official correspondence with university staff, peers, and community.
This assessment will require you to complete the documentation set forth in the ECHO12003 Lab Manual. All forms are available under the Lab Documentation tab on the unit Moodle page.
This includes:

- A signed Lab Agreement form to be uploaded in Week 1
- A signed Consent Form - Sonographic Examination for Teaching Purposes to be uploaded in Week 1
- A completed and signed Professional Behaviour Assessment Rubric Form to be uploaded in Week 12
- A completed Lab Attendance Page to be scanned and uploaded in Week 12

This is a PASS/FAIL assessment. This assessment is marked using the Professional Behaviour Assessment (PBA) rubric and incorporates LiPs (lapses in professionalism) - to pass this unit, you need to get 12/15 for your PBA and can receive a maximum of three LiPs across all descriptors. i.e. if a fourth LiP is issued, the maximum mark would be 11/15 and the assessment will be graded as a fail. As this is a pass/fail unit, all assessment items must be graded as a pass to pass the unit.
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.

Expected behaviour and its relevance to the clinical environment is listed under the Assessment 3: 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. Please be aware that having your Formative Feedback Forms signed after your lab day by not bringing them to lab would have consequences in departments in a clinical setting and will warrant a LiP. You will be required to fill out a Formative Feedback Form for each of your labs, but not for the dates of your practical skills tests as outlined in the lab manual. It is very important that you familiarise yourself with the CODE OF CONDUCT in the Lab Manual as well as the ASA CODE OF CONDUCT and the CQU CODE OF CONDUCT. All of these documents are posted on the unit Moodle site for your information.
If unprofessional attitude or behaviour is reported by fellow classmates and not witnessed by a staff member, a written warning detailing the allegations will be issued to the student, and the student's response documented. If further evidence of an on-going unprofessional behaviour surfaces, then a LiP may be issued. Any lack of professionalism displayed in the use of the Google Doc unmanned practice booking system, where the unit coordinator is able to access details of when practises are booked or changed will result in an automatic LiP.
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.
Note: Exemplary professional behaviour is highly valued by clinical supervisors. This information may be used to endorse students for placements if requested by clinical sites.

Assessment Due Date
Week 12 Friday (5 Oct 2018) 4:00 pm AEST

AEST.

Return Date to Students

Results will be made available once submissions have been moderated.

Weighting
Pass/Fail

Assessment Criteria
You must upload all of the required documentation for this assessment by the due date and time to obtain a 'PASS'. If you are absent for a lab, please indicate the reason for this yourself on your formative feedback form and attendance record - a tutor's signature is not required.
Ensure ALL scanned documents are labelled with *student name and document descriptor.*

Referencing Style

- Vancouver

Submission
Online

Submission Instructions
Documents to be uploaded in PDF format. A signed Lab Agreement form to be uploaded in Week 1. A signed Consent Form - Sonographic Examination for Teaching Purposes to be uploaded in Week 1. A completed and signed Professional Behaviour Assessment Rubric Form to be uploaded in Week 12. A completed Lab Attendance Page to be scanned and uploaded in Week 12.

Learning Outcomes Assessed

- Display professional behaviour, teamwork and communication skills consistent with safe practice

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice
- Social Innovation

4 Reflective Practice Assessment

Assessment Type
Reflective Practice Assignment

Task Description
The purpose of this assessment is to develop self-reflection skills by setting weekly goals and following up on progress.

This assessment will require you to complete 8 x Formative Feedback Forms and 1 x Mock Skills Feedback form; to be uploaded in Week 12.

This is a PASS/FAIL assessment.

Formative Feedback Forms must be completed BEFORE leaving at the end of each lab (as you would be required to complete documentation for each patient's scan before the end of a clinical shift), and to have it signed off by your instructor. You must upload all of the required documentation for this assessment by the due date and time to obtain a 'PASS'.

If you are absent for a lab, please indicate the reason for this yourself on your formative feedback form - a tutor's signature is not required. Please note details on the Professional Behaviour Assessment Rubric which outline procedure for lab absences.

Assessment Due Date
Week 12 Friday (5 Oct 2018) 4:00 pm AEST

Online submission via Moodle.

Return Date to Students

Results will be published after submissions have been moderated.

Weighting
Pass/Fail

Assessment Criteria
To obtain a 'PASS', all documentation must be completed correctly and submitted on or before the corresponding due date and time.
Ensure ALL scanned documents are labelled with *student name and document descriptor.*

Referencing Style

- Vancouver

Submission
Online

Submission Instructions
All documents must be legible and uploaded in PDF format only. Submission due date is Week 12

Learning Outcomes Assessed

- Apply constructive feedback to professional practice improvement.

Graduate Attributes

- Communication

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

Examination

Outline
Complete an invigilated examination.

Date
During the examination period at a CQUniversity examination centre.

Weighting
60%

Length
180 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).
Calculator - non-programmable, no text retrieval, silent only

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