



MEDI12006 *Imaging Procedures 2*

Term 2 - 2022

Profile information current as at 08/05/2024 11:47 am

All details in this unit profile for MEDI12006 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

Imaging Procedures 2 will build upon your foundation knowledge and skills developed in Imaging Procedures 1. On completion of this unit, you should be able to perform routine radiographic examinations of the axial and appendicular skeleton, chest, abdomen and craniofacial structures. You will expand your image assessment and interpretation skills to radiography of the axial skeleton. You will be introduced to additional areas of radiographic practice, including mammography, bone mineral densitometry and mobile x-ray imaging. This unit includes a large element of clinical simulation to enhance readiness for clinical placement.

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-requisites: MPAT12001 Medical Pathophysiology MEDI12001 Radiation Science MEDI12002 Science and Instrumentation 1 MEDI12003 Imaging Procedures 1 Co-requisites: MEDI12004 Medical Imaging Clinical Placement 1MEDI12005 Science and Instrumentation 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 - 2022

- Mackay

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. **Practical Assessment**

Weighting: Pass/Fail

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

Weighting: 30%

3. **Portfolio**

Weighting: Pass/Fail

4. **Online Quiz(zes)**

Weighting: 20%

5. **Online Test**

Weighting: 50%

6. **Practical Assessment**

Weighting: Pass/Fail

7. **Practical Assessment**

Weighting: Pass/Fail

8. **Laboratory/Practical**

Weighting: Pass/Fail

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 Coordinator reflection

Feedback

In 2021 the summative assessment of radiographic skills and imaging theory was expanded to include both radiographic examinations newly learned in this unit and those learned in the prerequisite unit. Testing both supports currency of knowledge and skill in the full range of examinations that students will be expected to perform in their Term 3 clinical placement.

Recommendation

Continue to assess previous Imaging Procedures unit content to facilitate clinical placement readiness.

Feedback from Coordinator reflection

Feedback

The new learning activity and assessment task of the image assessment portfolio used the virtual reality (VR) radiography learning system. This self-paced student learning activity was effective for supporting image assessment skill development.

Recommendation

Investigate further structured learning activities that focus on image evaluation using the VR system (in addition to the image evaluation and portfolio assessment) to facilitate clinical placement readiness.

Unit Learning Outcomes

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

1. Perform safely and effectively at an advanced beginner level simulated radiographic examinations of all body regions, focusing on commonly requested examination on ambulant adults
2. Demonstrate patient care and professional behaviours in the simulated clinical environment
3. Assess radiographs for technical sufficiency
4. Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy
5. Identify radiographic appearances of normal anatomical structures, common normal variants and common pathologies on radiographic images all body regions
6. Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for radiographic examinations and in discussing radiographic images and their appearances
7. Discuss the indications for, anatomical features demonstrated by, technical set-ups, patient care requirements and specific imaging goals of routine radiographic projections of all body regions of ambulant adult patients
8. Discuss the techniques, patient care requirements and safety considerations of mammography, bone mineral densitometry, dental imaging and, at an introductory level, mobile and theatre imaging.

Medical Radiation Practice Board of Australia (MRPBA) Professional Capabilities for Medical Radiation Practice (2020)

Domain 1: Medical radiation practitioner: capabilities 1, 2, 4, 6, and 7

Domain 1A: Diagnostic radiographer: capability 1

Domain 2: Professional and ethical practitioner: capabilities 1 and 2

Domain 3: Communicator and collaborator: capabilities 1 and 2

Domain 4: Evidence-informed practitioner: capabilities 1 and 2

Domain 5: Radiation safety and risk manager: capabilities 1 and 2

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	6	7	8
1 - Practical Assessment - 0%	•	•						
2 - In-class Test(s) - 30%			•	•	•	•	•	
3 - Portfolio - 0%	•		•	•				
4 - Online Quiz(zes) - 20%								•
5 - Online Test - 50%			•	•	•	•	•	
6 - Practical Assessment - 0%	•	•						
7 - Practical Assessment - 0%	•	•						
8 - Laboratory/Practical - 0%		•						

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes							
	1	2	3	4	5	6	7	8
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								

Textbooks and Resources

Textbooks

MEDI12006

Prescribed

Accident and Emergency Radiology: A Survival Guide

3rd Edition (2015)

Authors: Raby, Berman, De Lacey

Elsevier

Sydney , NSW , Australia

ISBN: 9780702042324

Binding: Paperback

MEDI12006

Prescribed

Bontrager's Handbook of Radiographic Positioning and Techniques

10th Edition (2021)

Authors: John P. Lampignano & Leslie E. Kendrick

Elsevier

St. Louis , Missouri , USA

ISBN: 9780323694223

Binding: Spiral

MEDI12006

Prescribed

Bontrager's Textbook of Radiographic Positioning and Related Anatomy

10th Edition (2021)

Authors: John P. Lampignano & Leslie E. Kendrick

Elsevier

St. Louis , Missouri , USA

ISBN: 9780323653671

Binding: Hardcover

Additional Textbook Information

The textbooks for MEDI12006 - Imaging Procedures 2, are the same textbooks previously used for MEDI12003 - Imaging Procedures 1.

If you have not previously purchased these prescribed texts, copies can be purchased at the CQUni Bookshop here:

<http://bookshop.cqu.edu.au> (search on the unit code).

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

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

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Lauren Macdonald Unit Coordinator

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Schedule

Week 6 - 22 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Imaging of the Cervical Spine & Thoracic Spine	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 8	Tutorial
	Bontrager's Handbook of Radiographic Positioning and Techniques (10th ed.), Chapter 6	

Week 7 - 29 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Imaging of the Lumbar Spine & Sacrococcygeal Spine	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 9	Tutorial
	Bontrager's Handbook of Radiographic Positioning and Techniques (10th ed.), Chapter 6	

Week 8 - 05 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Imaging of the Skull	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 11	Tutorial
	Bontrager's Handbook of Radiographic Positioning and Techniques (10th ed.), Chapter 8	

Week 9 - 12 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Imaging of the Facial Bones & Paranasal Sinuses	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 11	Tutorial
	Bontrager's Handbook of Radiographic Positioning and Techniques (10th ed.), Chapter 8	1 Practical Assessment 1 Due: Week 9 Monday or Tuesday (12 - 13 Sept 2022)

Week 10 - 19 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Mammography	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 20, Part 5	Tutorial
		2 In-Class Test Due: Week 10 Monday (19 Sept 2022) 4:00 pm AEST

Week 11 - 26 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Mobile & Theatre Radiography	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 15	Tutorial
	Bontrager's Handbook of Radiographic Positioning and Techniques (10th ed.), Chapter 10	3 Image Portfolio and Evaluation Due: Week 11 Monday (26 Sept 2022) 5:00 pm AEST

Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Dental Radiography & Bone Densitometry	Bontrager's Textbook of Radiographic Anatomy (10th ed.), Chapter 11 p.436 & Chapter 20, Part 6	Tutorial
		8 Professional Behaviours Due: Week 12 Friday (7 Oct 2022) 5:00 pm AEST

Review/Exam Week - 10 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
		6 Practical Assessment 2 Due: Review/ Exam Week Tuesday or Wednesday (11 - 12 Oct 2022)
		4 Online Quiz Due: Review/Exam Week Monday (10 Oct 2022) 11:00 am AEST

Exam Week - 17 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
		7 Practical Assessment 3 Due: Exam Week Tuesday or Wednesday (18 - 19 Oct 2022)
		5 Online Test Due: Exam Week Monday (17 Oct 2022) 11:00 am AEST

Term Specific Information

This is a condensed unit running at Mackay Ooralea campus from Week 6 until Week 14. You will need to be on campus for tutorials, labs, practical assessments and re-sits, from Week 6 until Thursday of Week 14. Tutorials will not be recorded.

High fidelity clinical simulation is a core component of this unit. This simulation includes use of actual x-ray equipment with simulated patients in the Medical Imaging labs as well as computer-based immersive virtual reality (VR) simulation of radiographic positioning and imaging.

Each week's tutorial and lab activities builds on the content of the pre-recorded lectures for the weeks, so you need to ensure you have watched the lectures prior to attending labs and tutorials. This is a lab intensive unit. You should plan to attend all labs and tutorials as this will be integral to the development of knowledge and skills required for the assessments of the unit. You are expected to practice your positioning techniques during the timetabled practice sessions that are timed between the first and second lab class each week. The pace of class lab activities has been set with this expectation of practice and corresponding skill development. You are required to wear the Medical Imaging uniform for all learning activity in the x-ray labs. This includes the Medical Imaging course shirt with dress pants/shorts/skirts and safe, closed-in footwear.

Even though this unit is condensed in length, note that the requirement of 150 hours of student engagement with the unit still holds. You should expect to spend approximately 19 hours per week on campus for this unit. This includes pre-recorded lectures, supervised and practice lab sessions, tutorials and your personal study time.

This includes, per week:

- Pre-readings: 1 hour
- Pre-recorded Lectures: 2-3 hours
- Supervised labs: 3 hours
- Independent labs: 1 hour
- VR practice: 1 hour
- Tutorials: 1 hour
- Personal study time and test preparation: 9 hours

This unit is designed to run concurrently with MEDI12005 Science & Instrumentation 2. You are expected to apply your knowledge and skills from MEDI12005 to the learning activities and assessments in this unit.

Assessment Tasks

1 1 Practical Assessment 1

Assessment Type

Practical Assessment

Task Description

Performing simulated radiography techniques in the x-ray lab environment allows you to apply your learned skills, by positioning your peers as patients for simulated x-ray examinations and modifying technical factors. Attending the supervised and independent practice lab sessions is crucial to your learning success and preparation for your clinical placements.

Practical Assessment 1 is an individual 15 minute practical assessment in the x-ray suite. You will perform two simulated conventional radiography projections on one assigned region of the spine using a peer as your patient. Feedback provided from this assessment will enable you to structure your learning and make improvements to your performance in preparation for Practical Assessments 2 & 3 in Weeks 13 & 14, respectively.

Practical Assessment 1 will evaluate your performance of patient care and communication, examination justification, patient positioning, imaging technique, safe practice and management of the radiographic process.

Please note:

- This is a timed examination. You will have 15 minutes to complete the assessment. Any practical elements not completed within the allocated 15 minutes will be scored as not attempted.
- You must present for this assessment wearing the Medical Imaging clinical uniform.
- Your performance will be video recorded to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (e.g. notes, texts, electronic devices) – this is a closed book assessment.

If you do not achieve the minimum requirements, you will only be given one additional opportunity to perform the assessment. The re-attempt will be scheduled within 7 days of your initial attempt.

This is a pass/fail assessment item that must be completed during your timetabled practical session on a specified due date. If you have extenuating circumstances that cause you to be unable to perform the assessment at the due date and time, you must apply for an assessment extension. See Section 5 of the CQUniversity Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new due date/time. It is your responsibility to be available at that assigned time. In the absence of an approved extension, you will not be able to perform this assessment at a later date and would thus receive a Fail grade for the assessment, which would result in a Fail grade for the unit.

Assessment Due Date

At your timetabled practical session on Monday or Tuesday of Week 9 (12 - 13 September 2022)

Return Date to Students

Summative feedback for initial attempt to be provided within one day. Detailed feedback within two weeks of assessment.

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Areas assessed:

- Interpretation and justification of the clinical request
- Preparation of the x-ray room and ancillary equipment
- Positive identification of patient and introduction
- Verification of anatomical area and relevant clinical history
- Determination of pregnancy status
- Gaining informed consent
- Projections performed effectively

- Projections performed in a timely manner
- Use of primary anatomical markers
- Safe use of equipment
- Appropriate debrief and dismiss of patient
- Infection control
- Communication skills
- Professionalism

Each main category has one or more tasks. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

Please note:

- Each performance criterion has a specified minimum score of 4 or 5 out of 5.
- All critical criteria must score 5 out of 5, allowing for no errors or omissions.
- For non-critical criteria, 5 non-critical criteria must score 5, with the remaining non-critical criteria scored at 4 or above.

To achieve a Pass for this assessment:

- All critical criteria and 5 non-critical criteria must score 5, with the remaining non-critical criteria scored at 4 or above.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Offline

Submission Instructions

Practical Assessment in the X-Ray Laboratory

Learning Outcomes Assessed

- Perform safely and effectively at an advanced beginner level simulated radiographic examinations of all body regions, focusing on commonly requested examination on ambulant adults
- Demonstrate patient care and professional behaviours in the simulated clinical environment

2 2 In-Class Test

Assessment Type

In-class Test(s)

Task Description

You will write an in-class closed-book supervised online Moodle test to demonstrate your ability to apply the concepts and use the terminology from Weeks 6-9 of the unit.

Question tasks will be of the same types that you will practice in tutorials. These question tasks may include analysis of diagrams, explanations of concepts, application of concepts to specific scenarios, definitions and discussions. The weekly tutorials will provide you practice in analysing questions, formulating responses and assessing the quality of your responses.

This in-class online Moodle test includes the use of images in the form of photographs, radiographic images, and line drawings. These images are used as a basis for a series of questions related to each image. Subjects covered include amongst others, patient positioning, image quality and improvement, anatomy, and radiographic pathology. You are required to review the included images and to answer all questions related to each image.

The radiographic images offered may be of the following examination categories:

- Cervical spine
- Thoracic spine
- Lumbar spine
- Skull
- Facial Bones

- Paranasal Sinuses

This test must be written at the timetabled date and time. There are two back-to-back sittings of this test so your test start and end times will depend on your registered session. You will be admitted entry to the test room ten minutes prior to your test start time. You will use this time to log onto your computer workstation and into Moodle. The test will open at the scheduled time for your registered session, giving you 60 minutes of time to enter your responses. As with any Moodle test, your test will close automatically when the 60 minutes has elapsed.

There is no provision for a late submission and no late penalty can be applied. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not completed it by the scheduled date and time. If you have an approved extension, you will be assigned a new test date and time as soon as possible after the original test date. It is your responsibility to ensure that you can attend at that new assigned date/time. Please see Section 5 of the University's Assessment Policy and Procedure for details regarding Assessment Management, specifically around assessment extension.

Assessment Due Date

Week 10 Monday (19 Sept 2022) 4:00 pm AEST

Return Date to Students

Within two weeks of assessment.

Weighting

30%

Assessment Criteria

Assessed on:

- Application of knowledge to assess technical sufficiency of radiographic images
- Application of knowledge to modify positioning and/or technical setup to improve image quality
- Identification of normal anatomy
- Identification of common pathologies on radiographic images
- Correct use of scientific terminology when describing technical setup
- Correct use of scientific terminology when describing radiographic images and their appearances
- Clinical indications for routine imaging
- Patient care requirements for routine imaging
- Accurate description of technical setups for routine imaging
- Accurate description of anatomy best demonstrated and evaluation criteria for routine radiographic projections

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked.

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated on the test paper.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Via the unit Moodle site.

Learning Outcomes Assessed

- Assess radiographs for technical sufficiency
- Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy
- Identify radiographic appearances of normal anatomical structures, common normal variants and common pathologies on radiographic images all body regions
- Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for

- radiographic examinations and in discussing radiographic images and their appearances
- Discuss the indications for, anatomical features demonstrated by, technical set-ups, patient care requirements and specific imaging goals of routine radiographic projections of all body regions of ambulant adult patients

3 3 Image Portfolio and Evaluation

Assessment Type

Portfolio

Task Description

It is important that Radiographers have the necessary skills and knowledge to safely and effectively image patients. This involves patient positioning, equipment set-up and appropriate technical factor selection. Another important aspect is the ability to evaluate resultant images for technical sufficiency.

You will use the Skilitics Virtual Radiography system to perform simulations of radiographic examinations. This includes positioning the x-ray tube, patient and image receptor, selecting the technical parameters and capturing the radiographs. You will then evaluate the technical sufficiency of images that you have acquired, documenting your evaluation using the supplied proforma. The proforma requires that you provide 24 information items in your image evaluation. In tutorials you will practice image evaluation using the proforma to support your understanding of the depth of response required for each section and the appropriate use of technical terminology to articulate your responses.

In Weeks 6-9, using the Skilitics Virtual Radiography system, you must acquire and evaluate two (2) images from these anatomical regions:

- Cervical Spine
- Thoracic Spine
- Lumbar Spine
- Facial Bones

You will acquire and evaluate eight (8) images in total. You will compile your evaluated images and their documented evaluations into a portfolio. The required structure of your portfolio document will be detailed on the Moodle site.

Note that the radiographs themselves are not being scored. Whether or not the radiograph that you produce would meet all acceptance criteria is not being assessed here. It is your evaluation of your images that is being assessed. You are demonstrating that you know how each radiograph ought to appear, that you are able to determine whether or not your image matches the expected appearances and that if it does not, you would know how to correct that. Your responses on your proforma will need to address the image that you have acquired and thus will not necessarily be the same as those of your classmates.

You must use your own unique Skilitics Virtual Radiography login to produce these images. Your image portfolio and evaluation proformas must be your own work. Any identified cases of potential collusion will result in a breach of academic integrity case being raised.

Once submitted, two image evaluation proformas will be chosen randomly for assessment. You will not be informed in advance which examinations will be assessed. Image evaluation proforma minimum score requirements are detailed in the Assessment Criteria section below. Scores for the two image evaluation proformas are categorised into three levels: meets the minimum requirement, slightly below the minimum requirement, and far below the minimum requirement.

- If your initial submission is complete but your score for your two image evaluation proformas is slightly below the minimum requirement (24 - 37 points), you will be afforded one further opportunity to achieve a Pass for this assignment. You will then be required to produce two additional images (of projections not already submitted) and their evaluation proformas. You must meet the minimum requirement (38-48 points) on this second submission.
- If your initial submission is not complete in content and/or your image evaluation proforma score is far below the minimum requirement (0 -23 points), you will not be allowed any further submissions and your score on this assessment task will be a Fail.

This is a pass/fail assessment item that must be submitted by a specified due date. If you have extenuating circumstances that cause you to be unable to submit the assessment on the due date, you must apply for an assessment extension. See Section 5 of the CQUniversity Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you

will be assigned a new due date. In the absence of an approved extension, you will not be able to submit this assessment at a later date and would thus receive a Fail grade for the assessment, which would result in a Fail grade for the unit.

Assessment Due Date

Week 11 Monday (26 Sept 2022) 5:00 pm AEST

Return Date to Students

Within two weeks of assessment.

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Assessed on:

- Completeness relative to the requirements stated in the Task Description regarding the number and type of projection images, and the use of the supplied proforma to document image evaluations
- Correctness and completeness of the scored image evaluation proformas.

Each image evaluation proforma requires you to provide 24 information items, each of which scores one point when correct and complete for a total of 24 possible points. Two image evaluation proformas will be chosen randomly for this assessment, which gives a maximum score of 48 possible points.

Image evaluation proforma minimum score requirements:

- Meets the minimum requirement: 38 – 48 points
- Slightly below the minimum requirement: 24 – 37 points
- Far below the minimum requirement: 0 – 23 points

To achieve a Pass for this assessment, you must:

- submit your portfolio by the due date, AND
- ensure your portfolio content is fully completed, AND
- meet the minimum score requirement on your two (2) scored image evaluation proformas.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Via the unit Moodle site.

Learning Outcomes Assessed

- Perform safely and effectively at an advanced beginner level simulated radiographic examinations of all body regions, focusing on commonly requested examination on ambulant adults
- Assess radiographs for technical sufficiency
- Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy

4 4 Online Quiz

Assessment Type

Online Quiz(zes)

Task Description

You will write an online Moodle quiz to demonstrate your ability to apply the concepts and use the terminology from Weeks 10-12 of the unit.

All questions will be based on the posted weekly learning goals for those weeks. Question tasks will be of the same types

that you will practice in tutorials. These question tasks may include analysis of diagrams, explanations of concepts, application of concepts to specific scenarios, definitions and discussions. The weekly tutorials will provide you practice in analysing questions, formulating responses and assessing the quality of your responses.

You may be required to answer questions relating to the theory of:

- Mammography & Breast U/S imaging
- Dental Imaging
- Bone Densitometry
- Mobiles & Theatre Imaging

This test is of 45 minutes duration. This time factors in perusal, planning time and writing time. The time allowed will provide adequate time to plan and type your answers, plus any potential lag of internet services. The stated due date/time listed below is when the test availability will close in Moodle, so plan to start your test 45 minutes before that time.

To complete the test, ensure that you have arranged to use a computer in good working order with adequate power/charged battery and a reliable internet connection.

This is an open book test. It means that during the test you may access your study notes, textbook, the unit Moodle site and/or any website. You may use that content in formulating your responses. Inserting answers copied from other published sources (including lecture slides) is considered plagiarism. If you copy any content word-for-word from ANY source, you must put that content in quotation marks and formally cite your source.

Your test responses must be your own work. The rules of academic integrity still apply. You cannot seek assistance or make use of assistance from another person during this test. You may not communicate with any other person during the test (whether verbally, electronically or in writing) for any purpose relating to the test questions or your responses. You may not share the test content with any other person for any reason. At the start of the test you will need to make a declaration that you understand these rules of academic integrity and that you agree to abide by them. Any identified cases of potential collusion will result in a breach of academic integrity case being raised.

This test must be written at the timetabled date and time. There is no provision for a late submission and no late penalty can be applied. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not completed it by the scheduled date and time. If you have an approved extension, you will be assigned a new test date and time as soon as possible after the original test date. It is your responsibility to ensure that you can attend at that new assigned date/time. Please see Section 5 of the University's Assessment Policy and Procedure for details regarding Assessment Management, specifically around assessment extension.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

Review/Exam Week Monday (10 Oct 2022) 11:00 am AEST

Return Date to Students

Certification of Grades

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

Assessed on:

- Application of technical knowledge of mammography, bone mineral densitometry, dental imaging, and mobile and theatre imaging
- Patient care
- Radiation safety

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked.

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated on the test paper.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Via the unit Moodle site.

Learning Outcomes Assessed

- Discuss the techniques, patient care requirements and safety considerations of mammography, bone mineral densitometry, dental imaging and, at an introductory level, mobile and theatre imaging.

5 5 Online Test

Assessment Type

Online Test

Task Description

You will write an online Moodle test to demonstrate your ability to apply the concepts and use the terminology from Imaging Procedures 1 and 2. Question tasks will be of the same types that you will practice in tutorials. These question tasks may include analysis of diagrams, explanations of concepts, application of concepts to specific scenarios, definitions and discussions. The weekly tutorials will provide you practice in analysing questions, formulating responses and assessing the quality of your responses.

This online test includes the use of images in the form of photographs, radiographic images, line drawings, and referrals. These images are used as a basis for a series of questions related to each image. Subjects covered include amongst others, patient positioning, image quality and improvement, anatomy, and radiographic pathology. You are required to review the included images and to answer all questions related to each image. The radiographic images offered may be from any examination category covered in Imaging Procedures 1 or 2.

This test is of 90 minutes duration. This time factors in perusal, planning time and writing time. The time allowed will provide adequate time to plan and type your answers, plus any potential lag of internet services. The stated due date/time listed below is when the test availability will close in Moodle, so plan to start your test 90 minutes before that time.

To complete the test, ensure that you have arranged to use a computer in good working order with adequate power/charged battery and a reliable internet connection.

This is an open book test. It means that during the test you may access your study notes, textbook, the unit Moodle site and/or any website. You may use that content in formulating your responses. Inserting answers copied from other published sources (including lecture slides) is considered plagiarism. If you copy any content word-for-word from ANY source, you must put that content in quotation marks and formally cite your source.

Your test responses must be your own work. The rules of academic integrity still apply. You cannot seek assistance or make use of assistance from another person during this test. You may not communicate with any other person during the test (whether verbally, electronically or in writing) for any purpose relating to the test questions or your responses. You may not share the test content with any other person for any reason. At the start of the test you will need to make a declaration that you understand these rules of academic integrity and that you agree to abide by them. Any identified cases of potential collusion will result in a breach of academic integrity case being raised.

This test must be written at the timetabled date and time. There is no provision for a late submission and no late penalty can be applied. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not completed it by the scheduled date and time. If you have

an approved extension, you will be assigned a new test date and time as soon as possible after the original test date. It is your responsibility to ensure that you can attend at that new assigned date/time. Please see Section 5 of the University's Assessment Policy and Procedure for details regarding Assessment Management, specifically around assessment extension.

Assessment Due Date

Exam Week Monday (17 Oct 2022) 11:00 am AEST

Return Date to Students

Certification of Grades

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

Assessed on:

- Application of knowledge to assess technical sufficiency of radiographic images
- Application of knowledge to modify positioning and/or technical setup to improve image quality
- Identification of normal anatomy
- Identification of common pathologies on radiographic images
- Correct use of scientific terminology when describing technical setup
- Correct use of scientific terminology when describing radiographic images and their appearances
- Clinical indications for routine imaging
- Patient care requirements for routine imaging
- Accurate description of technical setups for routine imaging
- Accurate description of anatomy best demonstrated and evaluation criteria for routine radiographic projections

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked.

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated on the test paper.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Via the unit Moodle site.

Learning Outcomes Assessed

- Assess radiographs for technical sufficiency
- Discuss methods to modify a radiographic examination to improve technical sufficiency and/or better demonstrate required anatomy
- Identify radiographic appearances of normal anatomical structures, common normal variants and common pathologies on radiographic images all body regions
- Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for radiographic examinations and in discussing radiographic images and their appearances
- Discuss the indications for, anatomical features demonstrated by, technical set-ups, patient care requirements and specific imaging goals of routine radiographic projections of all body regions of ambulant adult patients

6 6 Practical Assessment 2

Assessment Type

Practical Assessment

Task Description

Performing simulated radiography techniques in the x-ray lab environment allows you to apply your learned skills, by positioning your peers as patients for simulated x-ray examinations and modifying technical factors. By the end of this unit, your radiographic skills should be at the level of advanced beginner for general radiography on non-complex patients. This ensures your technical readiness for your next clinical placement unit.

Practical Assessment 2 measures your skill in performing radiographic projections of body regions covered in this unit, MEDI12006 - Imaging Procedures 2.

Practical Assessment 2 is an individual 15 minute practical assessment in the x-ray suite. You will perform two simulated conventional radiography projections on one anatomical region using a peer as your patient.

This assessment will assess your patient care and communication, examination justification, patient positioning, imaging technique, safe practice and management of the radiographic process.

Please note:

- This is a timed examination. You will have 15 minutes to complete the assessment. Any practical elements not completed within the allocated 15 minutes will be scored as not attempted.
- You must present for this assessment wearing the Medical Imaging clinical uniform.
- Your performance will be video recorded to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (e.g. notes, texts, electronic devices) – this is a closed book assessment.

If you do not achieve the minimum requirements, you will only be given one additional opportunity to be re-assessed. The re-attempt will be scheduled within 7 days of your initial attempt.

This is a pass/fail assessment item that must be completed during your timetabled practical session on a specified due date. If you have extenuating circumstances that cause you to be unable to perform the assessment at the due date and time, you must apply for an assessment extension. See Section 5 of the CQUniversity Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new due date/time. It is your responsibility to be available at that assigned time. In the absence of an approved extension, you will not be able to perform this assessment at a later date and would thus receive a Fail grade for the assessment, which would result in a Fail grade for the unit.

Assessment Due Date

At your timetabled practical session on Tuesday or Wednesday of Review/ Exam Week (11 - 12 October 2022)

Return Date to Students

Summative feedback for initial attempt to be provided within one day. Detailed feedback within two weeks of assessment.

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Areas assessed:

- Interpretation and justification of the clinical request
- Preparation of the x-ray room and ancillary equipment
- Positive identification of patient and introduction
- Verification of anatomical area and relevant clinical history
- Determination of pregnancy status
- Gaining informed consent
- Projections performed effectively
- Projections performed in a timely manner
- Use of primary anatomical markers
- Safe use of equipment
- Appropriate debrief and dismissal of patient

- Infection control
- Communication skills
- Professionalism

Each main category has one or more tasks. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

Please note:

- Each performance criterion has a specified minimum score of 4 or 5 out of 5.
- All critical criteria must score 5 out of 5, allowing for no errors or omissions.
- For non-critical criteria, 5 non-critical criteria must score 5, with the remaining non-critical criteria scored at 4 or above.

To achieve a Pass for this assessment:

- All critical criteria and 5 non-critical criteria must score 5, with the remaining non-critical criteria scored at 4 or above.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Offline

Submission Instructions

Practical Assessment in the X-Ray Laboratory

Learning Outcomes Assessed

- Perform safely and effectively at an advanced beginner level simulated radiographic examinations of all body regions, focusing on commonly requested examination on ambulant adults
- Demonstrate patient care and professional behaviours in the simulated clinical environment

7 7 Practical Assessment 3

Assessment Type

Practical Assessment

Task Description

Performing simulated radiography techniques in the x-ray lab environment allows you to apply your learned skills, by positioning your peers as patients for simulated x-ray examinations and modifying technical factors. By the end of this unit, your radiographic skills should be at the level of advanced beginner for general radiography on non-complex patients. This ensures your technical readiness for your next clinical placement unit.

Practical Assessment 3 measures your skill in performing radiographic examinations of body regions covered in the prerequisite unit, MEDI12003 - Imaging Procedures 1.

Practical Assessment 3 is an individual 15 minute practical assessment in the x-ray suite. You will perform two simulated conventional radiography projections on one anatomical region using a peer as your patient.

This assessment will assess your patient care and communication, examination justification, patient positioning, imaging technique, safe practice and management of the radiographic process.

Please note:

- This is a timed examination. You will have 15 minutes to complete the assessment. Any practical elements not completed within the allocated 15 minutes will be scored as not attempted.
- You must present for this assessment wearing the Medical Imaging clinical uniform.
- Your performance will be video recorded to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (e.g. notes, texts, electronic devices) – this is a closed book assessment.

If you do not achieve the minimum requirements, you will only be given one additional opportunity to be re-assessed. The re-attempt will be scheduled on Week 14 Thursday 20th October 2022.

This is a pass/fail assessment item that must be completed during your timetabled practical session on a specified due date. If you have extenuating circumstances that cause you to be unable to perform the assessment at the due date and time, you must apply for an assessment extension. See Section 5 of the CQUniversity Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new due date/time. It is your responsibility to be available at that assigned time. In the absence of an approved extension, you will not be able to perform this assessment at a later date and would thus receive a Fail grade for the assessment, which would result in a Fail grade for the unit.

Assessment Due Date

At your timetabled practical session on Tuesday or Wednesday of Exam Week (18 - 19 October 2022)

Return Date to Students

Summative feedback for initial attempt to be provided within one day. Detailed feedback within two weeks of assessment.

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Areas assessed:

- Interpretation and justification of the clinical request
- Preparation of the x-ray room and ancillary equipment
- Positive identification of patient and introduction
- Verification of anatomical area and relevant clinical history
- Determination of pregnancy status
- Gaining informed consent
- Projections performed effectively
- Projections performed in a timely manner
- Use of primary anatomical markers
- Safe use of equipment
- Appropriate debrief and dismiss of patient
- Infection control
- Communication skills
- Professionalism

Each main category has one or more tasks. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

Please note:

- Each performance criterion has a specified minimum score of 4 or 5 out of 5.
- All critical criteria must score 5 out of 5, allowing for no errors or omissions.
- For non-critical criteria, 5 non-critical criteria must score 5, with the remaining non-critical criteria scored at 4 or above.

To achieve a Pass for this assessment:

- All critical criteria and 5 non-critical criteria must score 5, with the remaining non-critical criteria scored at 4 or above.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Offline

Submission Instructions

Practical Assessment in the X-Ray Laboratory

Learning Outcomes Assessed

- Perform safely and effectively at an advanced beginner level simulated radiographic examinations of all body regions, focusing on commonly requested examination on ambulant adults
- Demonstrate patient care and professional behaviours in the simulated clinical environment

8 8 Professional Behaviours

Assessment Type

Laboratory/Practical

Task Description

Professional behaviour is a vital component of competency as a health care professional. As such you will be expected to demonstrate this consistently whilst working in the simulated clinical environment of the imaging labs.

The Professional Behaviours Assessment Form, which contains both the detailed descriptors of required behaviours and your record of performance, is available on the unit Moodle site. You must bring it with you to each of your scheduled supervised practical lab classes for this unit. This form details the behaviours required. Your lab supervisor will assess your performance relative to the stated standards. Your lab supervisor will complete and sign the form every session.

You are encouraged to make a copy or scan of your form periodically during the term as there is no way to re-do this form if you misplace it.

This is a pass/fail assessment item that must be submitted by a specified due date. If you have extenuating circumstances that cause you to be unable to submit the assessment on the due date, you must apply for an assessment extension. See Section 5 of the CQUniversity Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new due date. In the absence of an approved extension, you will not be able to submit this assessment at a later date and would thus receive a Fail grade for the assessment, which would result in a Fail grade for the unit.

Assessment Due Date

Week 12 Friday (7 Oct 2022) 5:00 pm AEST

Return Date to Students

Within two weeks of submission.

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Assessed upon:

- Attendance
- Punctuality
- Professional attire
- Preparedness
- Productivity
- Teamwork
- Professional decorum
- Feedback

Detailed assessment criteria and a marking rubric are available on the unit Moodle site.

You will receive 8 points per lab class if all assessment criteria are met. Points will be deducted for any criteria, including attendance, where you have not demonstrated the behaviour to the required standard.

To attain a 'Pass' for this assessment, you must:

- Receive 80% of available points for the professional behaviours evaluation, AND
- Upload your completed professional behaviours form by the due date.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Via the unit Moodle site.

Learning Outcomes Assessed

- Demonstrate patient care and professional behaviours in the simulated clinical environment

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