



MEDI12003 *Imaging Procedures 1*

Term 1 - 2024

Profile information current as at 13/05/2024 02:20 pm

All details in this unit profile for MEDI12003 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit focuses on developing your skills in performing routine radiographic examinations of the appendicular skeleton, shoulder, pelvis, thorax and abdomen on an ambulant adult at an advanced beginner level. You will demonstrate high levels of patient care and radiation safety. You will develop skills to evaluate radiographs with regard to image quality and determine if an image is diagnostic. The principles of image interpretation will be introduced and common trauma/disease processes of the chest, abdomen and musculoskeletal system explored. The practical and simulated experiential learning element of this unit is performed in the University's Medical Imaging clinical simulation laboratories. This supports your readiness to put your knowledge and skills to use in your first 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

Corequisites: MEDI12001 Radiation Science MEDI12002 Science and Instrumentation 1 Prerequisites: BMSC11001 Human Body Systems 1 and BMSC11002 Human Body Systems 2 OR BMSC11010 Human Anatomy and Physiology 1 and BMSC11011 Human Anatomy and Physiology 2 ESSC11004 Study and Research Skills for Health Sciences MEDI11001 Fundamentals of Imaging Professions MEDI11003 Relational Anatomy MEDI11004 Professional Practice MEDI11005 Patient Care in the Allied Health Professions

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 1 - 2024

- 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. **Online Quiz(es)**

Weighting: 20%

3. **Reflective Practice Assignment**

Weighting: Pass/Fail

4. **Portfolio**

Weighting: 30%

5. **Practical Assessment**

Weighting: Pass/Fail

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

Weighting: 50%

7. **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 SUTE and Medical Imaging Team discussions

Feedback

Although the academic team considers the image critique portfolio as an effective learning and assessment tool, some students commented that the image critique portfolio was very time consuming.

Recommendation

Explicitly emphasise to the students about the role of the image critique portfolio and the weekly engagement required to complete the task.

Feedback from Student comments & SUTE

Feedback

A minority of students commented that they would like more resources focusing on image interpretation and image anatomy.

Recommendation

Investigate resources to fit both outgoing Imaging Procedures 1 in 2024 and new Radiographic Anatomy and Appearances units in 2025.

Feedback from Student comments to coordinator & SUTE

Feedback

Students found the labs and tutorials useful to apply their knowledge.

Recommendation

Maintain imaging labs and tutorials.

Unit Learning Outcomes

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

1. Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations 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 of the appendicular skeleton, shoulder girdle, pelvic girdle, thorax and abdomen
6. Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for a radiographic examination and in discussing radiographic images and their appearances
7. Discuss the indications for, anatomical features demonstrated by and technical set-ups, patient care requirements and specific imaging goals of the various radiographic examinations of the upper and lower extremities, shoulder and pelvic girdles, thorax and abdomen.

This unit maps to the following components of the Medical Radiation Practice Board of Australia's Professional Capabilities for Medical Radiation Practice (2020 version):

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

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
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

MEDI12003

Prescribed

Accident and Emergency Radiology: A Survival Guide

3rd Edition (2015)

Authors: Raby, Berman, Morley, De Lacey

Elsevier

Sydney , New South Wales , Australia

ISBN: 9780702042324

Binding: Paperback

MEDI12003

Prescribed

Bontrager's Handbook of Radiographic Positioning and Techniques

10th Edition (2021)

Authors: John P. Lampignano & Leslie E. Kendrick

Elsevier

St. Louis , Missouri , United States of America

ISBN: 9780323694223

Binding: Spiral

MEDI12003

Prescribed

Bontrager's Textbook of Radiographic Positioning and Related Anatomy

10th Edition (2021)

Authors: John P. Lampignano & Leslie E. Kendrick

Elsevier

St. Louis , Missouri , United States of America

ISBN: 9780323653671

Binding: Hardcover

[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: [Vancouver](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Karen Finlay Unit Coordinator

k.finlay@cqu.edu.au

Schedule

Week 1 - 04 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Introduction to Radiographic Technique & Radiography of the Fingers & Thumb

Bontrager's Textbook Ch 4
Bontrager's Handbook Ch 2

Simulated radiographic techniques lab
- Fingers & Thumb
On-campus tutorial

Week 2 - 11 Mar 2024

Module/Topic

Chapter

Events and Submissions/Topic

Radiography of the Hand & Wrist

Bontrager's Textbook Ch 4
Bontrager's Handbook Ch 2

Simulated radiographic techniques lab
- Hand & Wrist
On-campus tutorial

Week 3 - 18 Mar 2024

Module/Topic

Chapter

Events and Submissions/Topic

Radiography of the Forearm & Elbow

Bontrager's Textbook Ch 4
Bontrager's Handbook Ch 2

Simulated radiographic techniques lab
- Forearm & Elbow
On-campus tutorial

Week 4 - 25 Mar 2024

Module/Topic

Chapter

Events and Submissions/Topic

Review of the Upper Extremity

On-campus tutorial
Image-taking session 1

Week 5 - 01 Apr 2024

Module/Topic

Chapter

Events and Submissions/Topic

Radiography of the Humerus & Shoulder Girdle

Bontrager's Textbook Ch 5
Bontrager's Handbook Ch 3

Simulated radiographic techniques lab
- Humerus & Shoulder
Zoom tutorial

Practical Assessment 1 Due: Week 5 Friday (5 Apr 2024) 11:45 pm AEST

Vacation Week - 08 Apr 2024

Module/Topic

Chapter

Events and Submissions/Topic

Week 6 - 15 Apr 2024

Module/Topic

Chapter

Events and Submissions/Topic

Radiography of the Thorax

Bontrager's Textbook Ch 2 & 10
Bontrager's Handbook Ch 1 & 7

Simulated radiographic techniques lab
- Thorax
On-campus tutorial

Online Quiz Due: Week 6 Tuesday (16 Apr 2024) 12:30 pm AEST

Week 7 - 22 Apr 2024

Module/Topic

Chapter

Events and Submissions/Topic

Radiography of the Abdomen

Bontrager's Textbook Ch 3
Bontrager's Handbook Ch 9

Simulated radiographic techniques lab
- Abdomen
On-campus tutorial

Reflection and Action Plan Due: Week 7 Friday (26 Apr 2024) 4:00 pm AEST

Week 8 - 29 Apr 2024

Module/Topic

Chapter

Events and Submissions/Topic

Radiography of the Pelvis & Hips

Bontrager's Textbook Ch 7
Bontrager's Handbook Ch 5

Simulated radiographic techniques lab
- Pelvis & Hips
Image-taking session 2
On-campus tutorial

Week 9 - 06 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Knee & Femur	Bontrager's Textbook Ch 6 Bontrager's Handbook Ch 4	Simulated radiographic techniques lab - Knee & Femur Zoom tutorial

Week 10 - 13 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Ankle & Tibia/Fibula	Bontrager's Textbook Ch 6 Bontrager's Handbook Ch 4	Simulated radiographic techniques lab - Ankle & Tibia/Fibula On-campus tutorial

Week 11 - 20 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
Radiography of the Toes, Foot & Calcaneus	Bontrager's Textbook Ch 6 Bontrager's Handbook Ch 4	Simulated radiographic techniques lab - Toes, Foot & Calcaneus On-campus tutorial

Week 12 - 27 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
Consolidation		Image-taking session 3 Simulated radiographic techniques labs - Assessment practice On-campus tutorial Image Evaluation Portfolio Due: Week 12 Friday (31 May 2024) 4:00 pm AEST

Review/Exam Week - 03 Jun 2024

Module/Topic	Chapter	Events and Submissions/Topic
		Final practical assessment In-Class Test Due: Review/Exam Week Wednesday (5 June 2024) 11:45 pm AEST Professional Behaviours Due: Review/Exam Week Friday (7 June 2024) 4:00 pm AEST

Exam Week - 10 Jun 2024

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

This unit is delivered in on-campus mode at Mackay Ooralea campus running from Weeks 1 to 14. You will need to be on campus for tutorials, labs, practical and theory assessments and practical re-tests from Week 1 onwards. 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.

Each week's timetabled tutorial lab activities build on the content of the pre-recorded lectures for the week, 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.

Note that 150 hours of student engagement is required for this unit, which equates on average to 10 - 12 hours per week. In most weeks your engagement should include the following activities:

- Complete pre-reading (1 hour per week)
- View all lectures (2 hours per week)
- Build your study notes (1 - 2 hours per week)
- Attend and participate in supervised labs (2.5 hours per week) and independent labs (1.5 hour per week)
- Prepare for tutorials (1 hour per week)
- Attend and participate in tutorials (1.5 hours per week)
- Revise for assessments (1 hour per week)

This unit is designed to run concurrently with MEDI12001 Radiation Science and MEDI12002 Science & Instrumentation 1. You are expected to apply your knowledge and skills from those two units to both learning activities and assessments in this unit.

The unit coordinator for this unit is: Karen Finlay

Preferred contact is by email at k.finlay@cqu.edu.au. Alternatively, I can be contacted by phone on (07) 4940 7598 / Ext 57598

Assessment Tasks

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 10-minute practical assessment in the x-ray suite. You will perform one simulated radiography examination on one anatomical region using a peer as your patient. You may be assigned any of the projections that have been covered in Weeks 1 - 3. Feedback provided from this assessment will enable you to structure

your learning and make improvements to your performance in preparation for Practical Assessment 2 in Week 13.

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 10 minutes to complete the assessment. Any practical elements not completed within the allocated 10 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 a pass score on your first attempt, you will be given two additional opportunities to perform the assessment. The first re-attempt will be scheduled within 7 calendar days of receiving the scores and feedback of the original assessment. If you do not achieve the minimum score at the first re-attempt, a second re-attempt will be scheduled within 7 calendar days of receiving the scores and feedback of the first re-attempt. The 7 calendar days do not include Vacation Week.

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 attend your practical at your timetabled date and time, you must apply for an assessment extension. See Section 5 of the University's 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 practical date/time which will be set according to the availability of the imaging facilities and assessor. It is your responsibility to ensure that you can attend at that new assigned date/time. In the absence of an approved extension, you will not be able to complete this task at a later date and would thus receive a Fail grade for the assessment task, which would result in a Fail grade for the unit.

Assessment Due Date

Week 5 Friday (5 Apr 2024) 11:45 pm AEST

Assessment will be held during the timetabled practical lab sessions on Friday of Week 5

Return Date to Students

Written feedback provided within 7 calendar days of assessment

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Your performance will be scored on your ability to perform the tasks to complete the assigned radiographic imaging examination following the posted performance standards for the assessment.

Your performance target is to perform each task completely and correctly at the level of the stated standard. Tasks designated as 'critical' must be performed with no errors or omissions.

To achieve a 'Pass' for this assessment, by your third attempt you must:

- Complete all 8 critical tasks with no errors or omissions (scored 5/5 on the feedback form) **AND**
- Attempt all 22 non-critical tasks and of those:
 - Perform at least 5 with no errors or omissions (scored 5/5)
 - Perform no more than 7 with two errors and/or component omissions (scored 3/5)
 - Perform the rest with at most one error or component omission (scored 4/5)

- Perform no tasks with errors or omissions which lead to a score of 1/5 or 2/5

Referencing Style

- [Vancouver](#)

Submission

Offline

Learning Outcomes Assessed

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
- Demonstrate patient care and professional behaviours in the simulated clinical environment

2 Online Quiz

Assessment Type

Online Quiz(zes)

Task Description

This online test assesses your knowledge and understanding of content covered in Weeks 1 to 5 inclusive.

This test is a Moodle quiz. It will be available to you between 11am and 12.30pm AEST on Tuesday 16th April 2024. This means that you have a window of one and a half hours to complete the quiz. Once opened, the quiz will remain open for 60 minutes. Once you open the test you will not be able to pause or re-start it. Any unanswered questions or unsaved responses will receive a mark of zero. Note that if you start the test less than 60 minutes prior to the stated closing time, the test will close at that stated time and you will have less than 60 minutes to complete the test.

You must undertake the test as an individual and not with classmates or others. As with all other University assessments, colluding with other students on a non-group work task is considered academic misconduct and will be dealt with in accordance with the Student Academic Integrity Policy. If you answer the questions using any information resource other than unit lectures or the prescribed texts, you must cite your sources using the Vancouver referencing system. Failure to cite sources constitutes a breach of academic integrity and will be dealt with in accordance of the relevant policy. The test is open book, but be mindful of the time-limited nature of the test.

In the absence of an approved assessment extension, if you do not complete the test by the stated due date and time, you will receive a mark of zero for this assessment.

Number of Quizzes

1

Frequency of Quizzes

Assessment Due Date

Week 6 Tuesday (16 Apr 2024) 12:30 pm AEST

The quiz will open at 11am AEST and close at 12.30pm AEST

Return Date to Students

Test results will be released two weeks after students have completed the test (including those with approved extensions)

Weighting

20%

Assessment Criteria

Your responses are scored on the following criteria:

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

- Evidence of problem-solving and critical thinking

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

Referencing Style

- [Vancouver](#)

Submission

Online

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 of the appendicular skeleton, shoulder girdle, pelvic girdle, thorax and abdomen
- Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for a radiographic examination and in discussing radiographic images and their appearances
- Discuss the indications for, anatomical features demonstrated by and technical set-ups, patient care requirements and specific imaging goals of the various radiographic examinations of the upper and lower extremities, shoulder and pelvic girdles, thorax and abdomen.

3 Reflection and Action Plan

Assessment Type

Reflective Practice Assignment

Task Description

This assessment further develops your skills of reflection on your practice so that you may apply what you have learned to improve your practice. You learned how to reflect in MEDI11004 Professional Practice, and you will now use reflection to develop as a professional by self-assessing the weaker areas of your performance. You will also receive feedback from your lab supervisor and peers during weekly practical lab sessions that you will document and use to reflect upon.

During lab sessions, each student will be required to observe their peers and provide constructive feedback to the student who is playing the role of "radiographer". You will provide feedback based on the technical performance and patient care and communication skills demonstrated. You are to log on the Feedback Form any feedback you receive from your lab supervisor and/or peers, plus add your own observations. Then, select an attribute that you feel requires improvement and reflect on your performance for this attribute.

By applying a deeper understanding of your thinking and actions that you have obtained from your reflection, you must develop an action plan that you will implement in the labs for the remainder of the term in preparation for your upcoming clinical placement. Discuss how you plan to raise the performance of your selected attribute by setting a SMART goal (specific, measurable, action-oriented, realistic and time-based). By addressing each item in the SMART acronym you will articulate specific actions that you will implement in order to improve your performance related to that attribute.

A Word template will be provided for this assessment item, so that you can enter your response under each heading to address the required content points. As this is a reflective report, you are to write in the first person. The Reflection and Action Plan should be 600-800 words in length, with a maximum word count of 1000.

In the event that your submission does not meet the 'Pass' requirements as per the posted rubric, you will be provided detailed feedback and guidance by the unit coordinator. You will then have one week to respond to the feedback and re-submit the Reflection and Action Plan assessment.

Assessment Due Date

Week 7 Friday (26 Apr 2024) 4:00 pm AEST

Return Date to Students

Week 9 Friday (10 May 2024)

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

The reflection and action plan submissions are assessed for:

- completeness of the submission (providing a response in each area of the template to address the stated questions and instructions in the task description)
- depth of discussions (analysis, interpretation, evaluation, recognition of own thinking and actions)
- relevance and practicality of the proposed actions
- clarity and format of writing (including logical flow, spelling, punctuation, grammar and correct use of Vancouver system in citing external sources)
- adhering to word limit

A marking rubric will be posted on the unit Moodle site to specify the 'Pass' requirements for each criterion listed above.

Referencing Style

- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

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

4 Image Evaluation Portfolio

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.

This task assesses your knowledge and skills in the evaluation of radiographic images for technical sufficiency. You will demonstrate that you know how each radiograph ought to appear, that you are able to determine whether or not the image matches the expected appearances and that if it does not, you would know how to correct any noted errors or omissions.

You will be provided with a portfolio of radiographs, with the projections taken from weekly content. You will then evaluate the technical sufficiency of **all** of these images, documenting your evaluation using the supplied proforma. 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.

The images that you will evaluate will be from the list of radiographic projections that you are expected to learn and perform each week. In total, ten (10) images will be provided and must be evaluated, one image from each content week.

You will compile your evaluated image evaluations into a portfolio. The required structure of your portfolio document will be detailed on the Moodle site.

Your evaluation proformas must be your own work. Any identified cases of potential collusion will result in a breach of academic integrity case being raised.

Not all of your image evaluations will be assessed. Your submissions will be scored with the marker selecting two image evaluations at random for assessment.

Assessment Due Date

Week 12 Friday (31 May 2024) 4:00 pm AEST

Return Date to Students

Results will be released within 2-weeks of the submission date

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

This portfolio is assessed on the following aspects:

- Completeness relative to the requirements stated in the Task Description regarding the number and type of projection images and their evaluations. All 10 image evaluations must be submitted. Any submissions containing less than 10 submissions will receive a mark of zero for this assessment task.
- Correctness and completeness of the scored image evaluations

Each image evaluation has nine (9) individual factors. Each factor is scored as 1, 0.5 or 0 using the criteria stated below. The maximum possible score for one image evaluation is nine (9) points.

To receive any marks for each individual factor you **MUST** correctly determine if the image meets acceptance criteria in each of the stated factors. If this section is incorrect, no marks will be awarded for that factor. If the follow-up action section is left blank, no marks will be awarded for that factor.

You will receive full marks for each factor if:

- You correctly determine whether the image meets acceptance criteria AND
- You correctly and completely justify the decision regarding whether the factor meets acceptance criteria, describing the acceptance requirements and comparing this with the image being evaluated AND
- You correctly and completely describe any follow-up action required to improve each factor if that factor does not meet acceptance criteria. If no follow-up action is required, this must be stated explicitly. Leaving this section blank will garner zero marks for that factor.

You will receive half-marks for each factor if:

- You have correctly determined if the image meets acceptance criteria AND
- Your justification regarding whether the factor meets acceptance criteria is mostly correct and complete, with only 1 or 2 errors or omissions OR
- Your follow-up action required to improve each factor if that factor does not meet acceptance criteria is mostly correct and complete, with 1 or 2 errors or omissions. If no follow-up action is required, this must be stated explicitly.

You will receive zero marks for each factor if:

- You incorrectly determine the image meets acceptance criteria in each of the stated factors OR
- You have left the section related to follow-up action blank OR
- Your justification is significantly incomplete or inaccurate OR
- Your stated follow-up action is significantly incomplete or inaccurate OR
- Both the justification AND follow up action demonstrate 1 or 2 errors or omissions.

Referencing Style

- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations 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

5 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. Attending the supervised and independent practice lab sessions is crucial to your learning success and preparation for your clinical placements.

Practical Assessment 2 measures your skill in performing radiographic projections of body regions covered in this unit, MEDI12003 - Imaging Procedures 1.

Practical Assessment 2 is an individual 15 minute practical assessment in the x-ray suite. This assessment is to be completed during your timetabled assessment session during Monday - Tuesday of Week 13 (3rd-4th June).

Using a peer as your patient, you will be required to perform one simulated x-ray examination consisting of **two** projections that have been covered in the material for this term. This assessment will be comprehensive, including patient care, 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. The assessment will be stopped after that time and any tasks not yet done will be scored as not attempted.
- You must present for your individual practical assessment wearing your Medical Imaging clinical uniform.
- This assessment task 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 meet minimum requirements on your first attempt you will be given one re-attempt. The re-attempt will be scheduled for Thursday 6th June.

If you have extenuating circumstances that cause you to be unable to attend your practical at your timetabled date and time, you must apply for an assessment extension. See Section 5 of the University's 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 practical date/time which will be set according to the availability of the imaging facilities and supervising staff. It is your responsibility to ensure that you can attend at that new assigned date/time. In the absence of an approved extension, you will not be able to complete this task at a later date and would thus receive a Fail grade for the assessment task, which would result in a Fail grade for the unit.

Assessment Due Date

Assessment will be held during the timetabled practical assessment lab sessions on Monday and Tuesday of Week 13

Return Date to Students

Review/Exam Week Thursday (6 June 2024)

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Your performance will be scored on your ability to perform the tasks to complete the assigned radiographic imaging examination following the posted performance standards for the assessment.

Your performance target is to perform each task completely and correctly at the level of the stated standard. Tasks designated as 'critical' must be performed with no errors or omissions.

To achieve a 'Pass' for this assessment, by your second attempt you must:

- Complete all 11 critical tasks with no errors or omissions (scored 5/5 on the feedback form)
- Attempt all 29 non-critical tasks and of those:
 - Perform at least 12 with no errors or omissions (scored 5/5)
 - Perform no more than 7 with two errors and/or component omissions (scored at 3/5)
 - Perform the rest with at most one error or component omission (scored 4/5)
 - Perform no tasks with errors or omissions which lead to a score of 1/5 or 2/5

Referencing Style

- [Vancouver](#)

Submission

Offline

Learning Outcomes Assessed

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
- Demonstrate patient care and professional behaviours in the simulated clinical environment

6 In-Class Test

Assessment Type

In-class Test(s)

Task Description

This assessment is an in-class closed-book online Moodle test taking place on campus. As health care professionals, radiographers must consider many variables during the radiographic imaging process and be able to apply their imaging knowledge and skills to solve problems as they present clinically. This test is focusing on professional content that you should have as 'ready' knowledge in preparation for entry to your first clinical placement.

This in-class test includes the use of images in the form of referrals, diagrams, 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, radiographic pathology, radiographic technique and patient care. You are required to review the included images and to answer all questions related to each image.

This test will demonstrate your ability to apply the concepts, theory and use the terminology from Imaging Procedures 1.

You will sit this test at your timetabled assessment time on the due date in your assigned testing room. There are two back-to-back sittings of this test so your test start and end time will depend on your registered session. You will be admitted entry to the test room at the 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 timetabled 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.

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 your timetabled 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, according to availability of a test supervisor and an appropriate room. It is your responsibility to ensure that you can attend at that new assigned date/time. Please see Section 5 of the the University's Assessment Policy and Procedure for details regarding Assessment Management, specifically around assessment extension.

Assessment Due Date

Review/Exam Week Wednesday (5 June 2024) 11:45 pm AEST

Sitting times 9am and 10.30 am. Specific time for individual students to be confirmed.

Return Date to Students

Results will be released within 2-weeks of the completion of the in-class test by all students, including approved extensions.

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

Your responses are scored on the following criteria:

- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked
- Correct use of professional terminology
- Correct selection and application of core concepts to the specific content of the question
- Evidence of problem-solving and critical thinking

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

Referencing Style

- [Vancouver](#)

Submission

Online

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 of the appendicular skeleton, shoulder girdle, pelvic girdle, thorax and abdomen
- Use technical terminology correctly in discussing the set-up of the beam, patient and image receptor for a radiographic examination and in discussing radiographic images and their appearances
- Discuss the indications for, anatomical features demonstrated by and technical set-ups, patient care requirements and specific imaging goals of the various radiographic examinations of the upper and lower extremities, shoulder and pelvic girdles, thorax and abdomen.

7 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. Following your final lab class in Week 12 you are required to upload the completed form into Moodle by the due date.

In the absence of an approved extension, you will not be able to submit this task 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

Review/Exam Week Friday (7 June 2024) 4:00 pm AEST

Return Date to Students

Results will be returned within 2-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 the required form 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 achieve a 'Pass' for this assessment item you must:

- Receive 80% of the available points for the term, based on 8 points per supervised practical lab class
- Submit your completed form via the unit Moodle site by 4pm AEST on Friday 7th June 2024.

Referencing Style

- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

- Safely and effectively perform at an advanced beginner level simulated radiographic examinations of the appendicular skeleton, pelvic and shoulder girdles and of the thorax and abdomen, focusing on commonly requested examinations on ambulant adults
- 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