



# **MEDI13006 Imaging Procedures 4**

## **Term 2 - 2019**

Profile information current as at 14/12/2025 03:36 pm

All details in this unit profile for MEDI13006 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 is the fourth and final Imaging Procedures unit in the course. There are two main areas of focus for the unit - adaptation radiography and fluoroscopic procedures. You will build on your knowledge and skills from prior theory units and clinical placements and further develop your problem-solving skills in the planning and execution of imaging procedures on complex patients and in complex environments such as theatre, casualty and wards. A range of fluoroscopic procedures will be discussed with respect to goals, technique, environments and the radiographer's role. You will examine the critical contribution of interpersonal skills such as effective communication and teamwork to the radiographer's ability to perform effectively and efficiently in these procedure areas.

#### Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

#### Pre-requisites or Co-requisites

Prerequisites: MEDI12004 Medical Imaging Clinical Course 1, and MEDI12005 Science & Instrumentation 2, and MEDI12006 Imaging Procedures 2 Co-requisites: MEDI13004 Medical Imaging Clinical Course 2

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

#### Offerings For Term 2 - 2019

- 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: 35%

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

Weighting: 40%

#### 3. **Written Assessment**

Weighting: 25%

#### 4. **Practical Assessment**

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 Student Survey

##### Feedback

Relevant content, with clear links to clinical practice was particularly appreciated by students

##### Recommendation

Maintain relevance and contextualisation of content, with clear links to clinical practice.

#### Feedback from Student Survey

##### Feedback

Supportive and approachable unit coordinator helped the students feel supported and increased confidence

##### Recommendation

Ensure support and approachability is maintained for future iterations of this unit.

## Unit Learning Outcomes

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

1. Analyse the technical and psychosocial aspects of imaging procedures within complex circumstances.
2. Formulate strategies for the efficient and effective performance of adaptation radiography in complex circumstances relative to best practices.
3. Perform mobile and complex radiographic imaging procedures in a simulated clinical environment.
4. Discuss commonly performed diagnostic and interventional fluoroscopic procedures.
5. Interpret radiographic appearances for complex radiographic and fluoroscopic procedures.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Written Assessment - 25%	•	•		•	
2 - Practical Assessment - 35%	•	•	•		•
3 - In-class Test(s) - 40%	•			•	•
4 - Practical Assessment - 0%			•		

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving	•	•	•		•
3 - Critical Thinking		•	•		
4 - Information Literacy	•	•	•	•	•
5 - Team Work	•	•	•		
6 - Information Technology Competence	•	•	•		•
7 - Cross Cultural Competence	•	•	•		
8 - Ethical practice	•	•	•		
9 - Social Innovation					
10 - Aboriginal and Torres Strait Islander Cultures					

## Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 25%	•	•		•		•	•			
2 - Practical Assessment - 35%	•	•	•	•	•	•	•	•		
3 - In-class Test(s) - 40%	•	•		•	•		•	•		
4 - Practical Assessment - 0%	•	•			•			•		

## Textbooks and Resources

### Textbooks

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#### Prescribed

##### **Bontrager's Handbook of Radiographic Positioning and Techniques 9th Edition (2017)**

Edition: 9th edn (2017 )

Authors: John Lampignano & Leslie E. Kendric

Elsevier

St Louis , Missouri , USA

ISBN: 9780323399661

Binding: Hardcover

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#### Prescribed

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Edition: 9th edn (2017 )

Authors: John Lampignano & Leslie E. Kendrick

Elsevier

St Louis , Missouri , USA

ISBN: 9780323485258

Binding: Spiral

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#### Supplementary

##### **Accident and Emergency Radiology: A Survival Guide**

3rd Edition (2015)

Authors: Authors: Raby, Berman, De Lacey

Elsevier

Philadelphia , usa

ISBN: 9780702042324

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

**You will need access to the following IT resources:**

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

## Referencing Style

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

For further information, see the Assessment Tasks.

## Teaching Contacts

**Natalie Sciascia** Unit Coordinator

[n.sciascia@cqu.edu.au](mailto:n.sciascia@cqu.edu.au)

## Schedule

### Week 1 - 15 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
- Inter-professional Collaboration & Teamwork	Bontrager Textbook, Chapters 1, 2, 4, 6-9	
- Adaptive Techniques	Bontrager Handbook, Chapters 2-6, 10	

### Week 2 - 22 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
- Mobile Radiography & Image Evaluation	Bontrager Textbook, Chapters 2, 5, 7, 8, 15	
- Poly-trauma & Emergency Imaging	Bontrager Handbook, Chapters 3, 5, 6, 8, 10	

### Week 3 - 29 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
- Neonatal & Paediatric Imaging, Bariatric Imaging	Bontrager Textbook, Chapters 2-9, 11, 14, 16	
- Imaging of the Elderly, Mental Health & Imaging	Bontrager Handbook, Chapters 1, 2, 4, 5, 9	

### Week 4 - 05 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
- Fluoroscopy & Interventional Imaging	Bontrager Textbook, Chapters 1, 3, 12, 15, 17	
- Theatre Imaging	Bontrager Handbook, Chapters 9, 10	

### Week 5 - 12 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
		Re-tests Practical Assessment Week 5 Thursday 15th August 2019
		<b>Practical Assessment</b> Due: Week 5 Wednesday (14 Aug 2019) 11:45 pm AEST
		<b>In-class Test</b> Due: Week 5 Friday (16 Aug 2019) 10:00 am AEST
		<b>Professional Behaviours Assessment</b> Due: Week 5 Friday (16 Aug 2019) 11:45 pm AEST

### Vacation Week - 19 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 26 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 7 - 02 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 8 - 09 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Written Assessment</b> Due: Week 8 Friday (13 Sept 2019) 4:00 pm AEST

## Term Specific Information

This is a condensed unit running at Mackay Ooralea campus from Week 1 until Week 5. The practical assessment and the in-class test for this unit are timetabled for Week 5. Be prepared to remain on campus up to and including Friday of Week 5. Your final written assessment piece is due at the end of Week 8, but this can be completed and submitted via distance.

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 24 hours per week of engagement for this unit. This includes, per week:

- Pre-readings 2 hours
- Lectures 4 hours
- Supervised and practice lab sessions 5.5 hours
- Tutorials 1.5 hours
- Personal study time and test preparation 11 hours
- An additional 30 hours will be required to prepare for your final written assignment.

This is a lab intensive unit. You should plan to attend all lectures, 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.

The unit coordinator for this unit is: **Natalie Sciascia**.

Preferred contact is by email at [n.sciascia@cqu.edu.au](mailto:n.sciascia@cqu.edu.au). Alternatively, I can be contacted by phone on (07) 4940 7482 or Ext. 57482.

## Assessment Tasks

### 1 Practical Assessment

#### Assessment Type

Practical Assessment

#### Task Description

Radiographers regularly work in imaging teams when imaging complex patients or in complex environments. Each team member must contribute technical expertise and operate as an effective team member to optimise the examination outcomes. In the clinical environment, your team mate may be whomever is rostered to the same working area or is available, so you must be adaptable and communicate well.

**The Practical Assessment is a 20 minute group and individual assessment in the Imaging Labs.**

In teams of two students you will be presented with a referral for a simulated complex imaging scenario. In your team you must analyse the referral, plan your approach to the imaging task and work together to safely, effectively and efficiently complete the imaging procedure on a full body anthropomorphic phantom, whilst demonstrating a high level of patient care and imaging technique. You will then critique your images and your performance.

#### Please note:

- Pairs of students for the practical assessment will be chosen at random by the unit coordinator just prior to the assessment.
- This is a timed examination. You will have 20 minutes to complete the practical elements of the task. If the practical element of the examination is not completed within the allocated 20 minutes, the practical element will be stopped and you will be marked based on your performance to that point.
- You must present for your practical assessment dressed as you would present to the clinical environment. Any student not adhering to the dress code may be excluded from the assessment.
- This assessment task may be recorded using a video camera to enable moderation.
- As this is a simulation of a clinical procedure, you must carry out this assessment without referring to any

- guidance resources (eg. notes, texts, electronic devices) - this is a closed book assessment.
- You must achieve the minimum required score for the assessment. If you do not achieve the minimum score, you will be given only one additional opportunity to perform the assessment, timetabled for day after the original practical assessment.

**Please note the following advice from the University Assessment Policy and Procedure:**

This assessment task must be completed as specified in the Assessment Due Date below. In the absence of an approved extension, there will be no opportunity to complete the task after this date.

**Assessment Due Date**

Week 5 Wednesday (14 Aug 2019) 11:45 pm AEST

During the timetabled lab session on Wednesday of Week 5. Student's specified time to be confirmed via the unit Moodle site.

**Return Date to Students**

Global verbal feedback provided within 1 working day following the assessment. Written feedback within two weeks of assessment.

**Weighting**

35%

**Minimum mark or grade**

50%

**Assessment Criteria**

**You will be assessed on the following criteria:**

- Effective planning of the imaging procedure
- Interpretation and justification of the clinical request
- Positive identification of the patient and introduction
- Verification of anatomical area and relevant clinical history
- Determine pregnancy status
- Gaining consent
- Effective teamwork in completing the task
- Individual contribution to completing the task
- Patient care
- Infection control
- Professional communication
- Choice of views and safe adaptation of technique
- Choice of imaging parameters
- Use of primary anatomical markers
- Quality of the resultant images
- Accurate critique of the procedure and resultant image/s

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:**

- Your mark will be a combination of your team score and an individual score.
- **You must pass both the team criteria and the individual criteria as listed in the Marking Rubric.**
- Detailed assessment criteria and a scoring rubric will be made available on the unit Moodle site.

**Referencing Style**

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

**Submission**

Offline



## Learning Outcomes Assessed

- Analyse the technical and psychosocial aspects of imaging procedures within complex circumstances.
- Formulate strategies for the efficient and effective performance of adaptation radiography in complex circumstances relative to best practices.
- Perform mobile and complex radiographic imaging procedures in a simulated clinical environment.
- Interpret radiographic appearances for complex radiographic and fluoroscopic procedures.

## Graduate Attributes

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

## 2 In-class Test

### Assessment Type

In-class Test(s)

### Task Description

A two hour in-class written assessment.

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 in-class test offers written scenarios and images in the form of photographs, radiographic images and line-drawn images. You will then be asked a series of questions surrounding the scenario/s. You are required to review all of the images offered and to answer all of the questions related to each of the images.

This is a formal closed-book test and no notes, texts or electronic devices are allowed into the class during this assessment task. You will have a five minute perusal time prior to the allotted writing time. You will write the in-class test under supervised test conditions, and will submit your test paper and rough paper at the end of the test period.

This test must be written at the timetabled date and time. As per the Assessment Procedures, this task is to be completed during a defined period. There is no opportunity to apply a late penalty. If you arrive late, you may enter the test room up to 30 minutes after the start of the test, however, you will still be required to submit your test at the standard test end time. You will not be allowed entry more than 30 minutes after the test starts.

### Please note the following advice from the University Assessment Policy and Procedure:

This assessment task must be completed on the specified day and time. In the absence of an approved extension, there will be no opportunity for you to complete this assessment at a later time, and you will receive a mark of zero for the assessment.

### Assessment Due Date

Week 5 Friday (16 Aug 2019) 10:00 am AEST

### Return Date to Students

Written feedback within two weeks of the test date

### Weighting

40%

### Minimum mark or grade

50%

### Assessment Criteria

You will be assessed on:

- Accurate use of scientific terminology
- Description of effective and safe imaging practices for the given scenario
- Accurate description of normal, normal variant and abnormal appearances
- Accurate description of patient positioning

- Critical analysis of imaging procedures
- Accurate interpretation of radiographic appearances
- Consideration of interprofessional collaboration

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

Offline

### Submission Instructions

### Learning Outcomes Assessed

- Analyse the technical and psychosocial aspects of imaging procedures within complex circumstances.
- Discuss commonly performed diagnostic and interventional fluoroscopic procedures.
- Interpret radiographic appearances for complex radiographic and fluoroscopic procedures.

### Graduate Attributes

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

## 3 Written Assessment

### Assessment Type

Written Assessment

### Task Description

Radiographers are required to make efficient informed imaging decisions on how to approach each examination based on the patient and clinical presentation.

For this task you will write an essay on one scenario related to imaging in a complex situation. This could relate to any of the imaging procedures studied in the unit. You must consider how you would approach this examination in relation to best practice, patient care and radiation safety. Discuss the technical and psychosocial aspects of the given scenario and how best to complete the procedure safely, effectively and with as little physical and psychological impact as possible on you, the patient or any other relevant party.

Complete the essay in the form of a Word document. The essay is to be approximately 2000 words in length, with a maximum of 2500 words, using references where appropriate.

### Assessment Due Date

Week 8 Friday (13 Sept 2019) 4:00 pm AEST

### Return Date to Students

Feedback will be provided within 10 working days of due date

### Weighting

25%

**Minimum mark or grade**

50%

**Assessment Criteria**

You will be assessed on the following criteria:

- Critical analysis of the technical requirements of the imaging procedure
- Critical analysis of psychosocial aspects of the imaging procedure
- Effectiveness of proposed strategy in addressing the following:
  - Efficiency in use of time and resources
  - Effectiveness of approach in answering the clinical question
  - Minimisation of detriment to patient, self and others
  - Use of the literature to support argument
- Communication:
  - Conciseness, clarity and organisation
  - Adherence to assignment instructions regarding referencing, structure and length

A detailed rubric outlining the scoring criteria will be provided on the unit Moodle site.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Analyse the technical and psychosocial aspects of imaging procedures within complex circumstances.
- Formulate strategies for the efficient and effective performance of adaptation radiography in complex circumstances relative to best practices.
- Discuss commonly performed diagnostic and interventional fluoroscopic procedures.

**Graduate Attributes**

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence

## 4 Professional Behaviours Assessment

**Assessment Type**

Practical Assessment

**Task Description**

The purpose of this assessment is to prepare you for the clinical environment and the professional responsibilities required of a radiographer.

Professional behaviour is a vital component of your competencies 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.

A Professional Behaviours Assessment Form is available on the unit Moodle site. You must bring it with you to each of your scheduled supervised practical lab classes. 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.

Once completed this form must be uploaded via the unit Moodle site for review by the unit coordinator.

As a pass/fail item in a graded unit, this assessment item **MUST** be passed in order to pass the unit.

**Assessment Due Date**

Week 5 Friday (16 Aug 2019) 11:45 pm AEST

**Return Date to Students**

Feedback will be provided within 10 working days of due date

**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. The total number of available points for the term will be calculated on a pro-rata basis where scheduled lab sessions could not be held due to unforeseen circumstances.

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

- receive 70% of available points for the professional behaviours evaluation
- complete and upload the professional behaviours evaluation form by the due date.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Perform mobile and complex radiographic imaging procedures in a simulated clinical environment.

**Graduate Attributes**

- Communication
- Problem Solving
- Team Work
- Ethical practice

## Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

### What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

### Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

### Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

### What can you do to act with integrity?



#### Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



#### Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



#### Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem