



# MEDI13006 *Imaging Procedures 4*

## Term 2 - 2017

Profile information current as at 28/04/2024 05:16 am

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 - 2017

- 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. **Written Assessment**

Weighting: 25%

#### 2. **Practical Assessment**

Weighting: 35%

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

Weighting: 40%

#### 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 Have your say student feedback. Staff feedback.

##### Feedback

Students felt this course should be held earlier in the programme.

##### Recommendation

Clinical course preceeding MEDI 13006 should be shortened from 8 weeks to 5 weeks and cover ambulant patient scenarios covered in MEDI12006. Adapted and modified techniques learned in this course will be relevant to assessment tasks in following clinical courses.

#### Feedback from unable to remove this section

##### Feedback

unable to remove this section

##### Recommendation

unable to remove this section

## 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

MEDI13006

#### Prescribed

#### **Merrill's Atlas of Radiographic Positioning & Procedures Volumes 1, 2 & 3**

Edition: Twelfth (2012)

Authors: Frank, E, Long, B & Smith, B

Elsevier Mosby

St. Louis , Missouri , USA

ISBN: 978-0-323-07321-9

Binding: Hardcover

#### **Additional Textbook Information**

The Merrill's Atlas textbook set is normally purchased as a three-volume set. Students should already have purchased Volumes 1 and 2 as they are required texts for the courses MEDI12003 Imaging Procedures 1 and MEDI12006 Imaging Procedures 2 which preceded this course.

### IT Resources

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

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

## Referencing Style

All submissions for this unit must use the referencing style: [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 - 10 Jul 2017**

Module/Topic	Chapter	Events and Submissions/Topic
- Inter-professional Collaboration & Teamwork - Adaptive Techniques	Paper reviews on Moodle site	

### **Week 2 - 17 Jul 2017**

Module/Topic	Chapter	Events and Submissions/Topic
- Mobile Radiography & Image Evaluation - Poly-trauma & Emergency Imaging	Merrill's, Volume 3, Chapter 28 – Mobile Radiography, pp 170-7 Accident and Emergency Radiology - A Survival Guide, Raby, 2nd edition, Chapter 1 - Basic Principles Merrill's, Volume 2, pp 20-57 - Trauma Radiography Pre-reading links on Moodle site	

### **Week 3 - 24 Jul 2017**

Module/Topic	Chapter	Events and Submissions/Topic
- Neonatal & Paediatric Imaging, Bariatric Imaging - Imaging of the Elderly, Mental Health Imaging	Merrill's, Volume 3, pp 102-8 - Principles of Pediatric Imaging Merrill's, Volume 1, pp 44-52 - Working Effectively with Obese Patients Merrill's, Volume 3, pp 160-7 - Patient Care in Geriatric Radiography	

#### Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
- Fluoroscopy & Interventional Imaging - Theatre Imaging	Merrill's Volume 2, Chapter 12 Contrast Arthrography Pages 8 – 17 Merrill's Volume 2, Chapter 17 Digestive System Anatomy and Technical Considerations Pages 99 – 109 and 112 – 119 Merrill's Volume 2, Chapter 18 Urinary System Radiography Pages 192 – 205 Review Anatomy if required: Pages 185 – 189	

#### Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
		<b>In-class Test</b> Due: Week 5 Friday (11 Aug 2017) 9:00 am AEST <b>Professional Behaviours Assessment</b> Due: Week 5 Friday (11 Aug 2017) 11:45 pm AEST

#### Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

#### Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

#### Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

#### Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
		Written Assessment Due  <b>Written Assessment</b> Due: Week 8 Friday (8 Sept 2017) 3:00 pm AEST

#### Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

#### Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

#### Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

#### Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

**Review/Exam Week - 09 Oct 2017**

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

**Exam Week - 16 Oct 2017**

Module/Topic	Chapter	Events and Submissions/Topic
--------------	---------	------------------------------

## 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. 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 25 hours per week on campus for this unit. This includes lecture, supervised and practice lab sessions, tutorials and your personal study time. An additional 25 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 Written Assessment

**Assessment Type**

Written Assessment

**Task Description**

This task requires you to complete an essay in the form of a Word document. The essay is to be approximately 2000 words in length, with a maximum 2500 words, using references where appropriate.

You will be assigned 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.

**Assessment Due Date**

Week 8 Friday (8 Sept 2017) 3:00 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**

The essay must be approximately 2000 words in length, with a maximum of 2500 words. 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

## 2 Practical Assessment

### Assessment Type

Practical Assessment

### Task Description

**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 the performance of yourself and the team as a whole in completing the imaging procedure.

#### Please note:

- Pairs of students for the practical assessment will be chosen at random by the unit coordinator.
- You will be provided with the name of your assessment partner at the start of the term, to give you the opportunity to coordinate practice lab times with your assigned partner.
- Detailed assessment criteria and scoring rubric will be available on Moodle.
- You must present for your individual 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.
- The examination is timed. 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.
- Following this practical task you will complete a questionnaire that will be scored, where you justify the technique you have used as a team and assess your individual and teamwork skills.
- 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 this assessment out without referring to any guidance resources (eg. notes, texts, electronic devices) - this is a closed book assessment.

#### Please note the following advice from the University Assessment Procedures:

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.



If you fail to meet the minimum requirements on your first attempt, a second attempt will be scheduled two days after the original assessment day.

### **Assessment Due Date**

Week 5 during the timetabled lab session. Specified date and time to be confirmed via the unit Moodle site.

### **Return Date to Students**

Global verbal feedback provided within 2 working days 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)
- Accurate critique of the team and individual 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.
- You must achieve the minimum required score for the assessment. If you do not achieve the minimum score, you will be given one additional opportunity to perform the assessment, to be scheduled two days after the day of the assessment.
- In the event that one student of the pair fails the individual part of the practical assessment, the partner of the failed student will also return to play the role of the team member, but will not be assessed.
- In the event that one or both team members cannot attend the practical assessment on the assigned day due to illness, the assessment will be rescheduled for both students two days after the original day of assessment.

### **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

## 3 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. 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 closed book assessment 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 test under examination conditions as detailed in the Assessment Procedures. You 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. 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 (11 Aug 2017) 9:00 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

### 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

# 4 Professional Behaviours Assessment

## Assessment Type

Practical Assessment

## Task Description

Professional Behaviours Assessment

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 instructed labs. This form details the behaviours required. Your lab tutor will assess your performance relative to the stated standards. One demerit point will apply for any category where you have not demonstrated the behaviour to the standard. Your lab tutor will complete and sign the form every session. If you fail to bring your form to your scheduled lab session you will receive one demerit.

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 (11 Aug 2017) 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:

- Adherence to dress code
- Punctuality
- Use of materials
- Use of class time
- Team behaviour
- Professional behaviour
- Acceptance of feedback

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

## 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