MEDI11001 *Fundamentals of the Imaging Professions*
Term 2 - 2020

Profile information current as at 14/12/2025 03:41 pm

General Information

Overview
This unit is the first step in your journey as a student medical radiation practitioner. The principle aim of this unit is to provide you with an introduction to the field of Medical Imaging and associated medical radiations professions. The theoretical and laboratory content of this unit enables you to develop the knowledge and skills to perform safely and professionally within your scope of practice.

Details
Career Level: *Undergraduate*
Unit Level: *Level 1*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites
Enrollment in CG92 Bachelor of Medical Imaging course.
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 - 2020

- Mackay
- Mixed Mode

Attendance Requirements
All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website
This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

Regional Campuses
Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses
Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Online Test**
Weighting: 15%
2. **Laboratory/Practical**
Weighting: 25%
3. **Online Test**
Weighting: 60%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Policy for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the CQUniversity Policy site.
You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the CQUniversity Policy site.

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Unit coordinator and student evaluations

Feedback
The assessment items supported student learning.

Recommendation
Continue with current assessment items.

Feedback from Instructional team

Feedback
The data for the lab workbook assessment was acquired in groups, making this suitable as a group assessment.

Recommendation
The workbook assessment was set up as an individual assessment. However, the labs were conducted and data was collected in groups, with follow-up group discussions of the results.

Feedback from Student comments

Feedback
Students appreciated the choice of dates offered with two residential schools.

Recommendation
Continue to offer the choice between two residential schools if enrolment numbers are suitable.

Unit Learning Outcomes

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

1. Discuss the responsibilities, role and scope of practice of medical radiation practitioners, particularly in the contexts of professional, medico-legal and regulatory frameworks
2. Discuss the Australian healthcare system and the provision of diagnostic imaging services within it
3. Discuss the scientific and humanistic aspects of the various diagnostic and therapeutic branches of the medical radiation sciences
4. Discuss learning strategies and professional attributes that enable student health professionals to learn and operate effectively within the culture of the clinical workplace
5. Apply basic concepts of radiation science and instrumentation to radiographic imaging.

This unit links at an introductory level to the following professional capabilities of the medical radiation practitioner as detailed by the Medical Radiation Practice Board of Australia:

- Domain 1: Professional and Ethical Conduct - Parts 1, 2 and 3
- Domain 3: Evidence-based Practice and Professional Learning - Part 2
- Domain 4: Radiation Safety and Risk Management - Parts 1, 4 and 5
- Domain 5: Practice in Medical Radiation Science - Parts 2, 3 and 4
- Domain 5A: Practice in Diagnostic Radiography - Parts 1 to 6

Alignment of Learning Outcomes, Assessment and Graduate Attributes

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

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Online Test - 15%	•				•
2 - Laboratory/Practical - 25%				•	•
3 - Online Test - 60%	•	•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

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

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Online Test - 15%	•	•						•		
2 - Laboratory/Practical - 25%	•	•	•			•				
3 - Online Test - 60%	•		•					•		

Textbooks and Resources

Textbooks

There are no required textbooks.

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

Linden Williams Unit Coordinator
l.williams@cqu.edu.au

Schedule

Week 1 - 13 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Learning the Profession • role of the radiographer • being an adult learner	See Moodle unit resources and links	One hour tutorial

Week 2 - 20 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Fundamentals of x-ray production • x-ray production • radiographic equipment	See Moodle unit resources and links	One hour tutorial

Week 3 - 27 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Fundamentals of x-ray imaging • aspects of image quality • controls of image appearances	See Moodle unit resources and links	One hour tutorial

Week 4 - 03 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Fundamentals of the imaging procedure • imaging workflow - referrals, RIS and PACS • radiographic examination	See Moodle unit resources and links	One hour tutorial

Week 5 - 10 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Fundamentals of Radiation	See Moodle unit resources and links	One hour tutorial

Vacation Week - 17 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Break Week		

Week 6 - 24 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
The clinical environment • the medical imaging team • scope of practice • communication • professional boundaries	See Moodle unit resources and links	One hour tutorial **Online Test** Due: Week 6 Monday (24 Aug 2020) 8:00 pm AEST

Week 7 - 31 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Regulation of Medical Radiation Practice • Registration • MRPBA Professional Capabilites • Radiation Use and Licencing - being safe and legal	See Moodle unit resources and links	One hour tutorial

Week 8 - 07 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Learning in the Clinical Environment • assessing performance • giving and receiving feedback • reflection on practice	See Moodle unit resources and links	One hour tutorial

Weeks 9 & 10 - 14 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Beyond the radiograph - other imaging modalities and medical radiation professions • Advanced radiography - fluoroscopy and CT • MRI • Sonography • Nuclear medicine • Radiation therapy	See Moodle unit resources and links	The content listed here will take 2 weeks of study, to complete during Weeks 9-10. One hour tutorial

Week 11 - 28 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
The big picture - The provision of diagnostic imaging within the Australian Healthcare System	See Moodle unit resources and links	One hour tutorial **Lab Attendance & Workbook** Due: Week 11 Monday (28 Sept 2020) 5:00 pm AEST

Week 12 - 05 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
Revision week		One hour tutorial

Review/Exam Week - 12 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
		End of term online test date TBC

Exam Week - 19 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
		End of term online test date TBC

Term Specific Information

MEDI11001 is a 6-credit point unit, which means you should plan to spend about 10-12 hours per week studying the unit content. For each week, a suggested breakdown of your time would be:

- Watching recorded lectures: 2 hours
- Weekly readings and guided learning activities in Moodle: 3-4 hours
- Making your own notes based on the weekly learning goals: 2 hours
- Tutorial: 1 hour
- Online lab activities and lab workbook: 1-2 hours

Throughout term you will also need to spend time revising material for the online tests.

The online lab activities and an on-campus residential school provide you with an opportunity to observe and work with the radiographic imaging equipment, applying the theory concepts covered in the unit and developing skills that will be required for Year 2 study. These activities are also an essential component for completing the Lab Workbook assessment. Online lab activities will be provided in Moodle. The specific dates and times of a residential school are yet to be confirmed. When attending res school you will be required to adhere to all occupational health and safety requirements related to the use of the Medical Imaging laboratories, including completion of the mandatory radiation safety and lab induction prior to your first session. You are required to adhere to the Medical Imaging Dress Code for all practical lab sessions at res school. If a res school cannot be held on campus due to restrictions associated with the COVID-19 pandemic then it will be scheduled in the week prior to the start of Term 1 2021.

Tutorials are interactive sessions where your participation enables you to check your understanding of and your ability to apply the week's concepts. Your regular participation strongly supports your success in the unit. While online tutorials will be recorded, these recordings are not intended to replace your active participation in live sessions. As a student in this unit, you are part of a learning community that will be home to you for the next few years. I encourage you to be an active participant and to connect with your classmates. Head to the Moodle site regularly. Use the Moodle forums regularly. Participate in tutorials and discussions. Enjoy your learning journey!

Assessment Tasks

1 Online Test

Assessment Type
Online Test

Task Description
You will complete an online test in Week 6 to demonstrate your understanding and ability to apply the concepts and use the terminology from Weeks 1 - 5 (inclusive).

- All questions will be based on the posted weekly learning goals. The question types may include multiple choice, matching terms, labelling diagrams, fill-in-the-gap and short written responses. Question tasks may include definitions, analysis of radiographs/photographs/diagrams, explanations and discussions.
- The test will be 40 marks. 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.

The online test will be available on Monday of Week 6 (24 August 2020) from 8:00am AEST to 8pm AEST. You must log into Moodle during this time period to complete the test. Once the test is accessed it will remain open for 60 minutes. You can only attempt the online test once and it must be completed in a single session. You cannot save your answers and return to the test at a later time.

This assessment is to be undertaken as an individual. As with all other university assessment, colluding with other students on non-group work tasks is considered academic misconduct. Inserting answers copied from other websites at the time of the online test is considered plagiarism. The online test is an open book assessment. However, you must remain mindful of the time you are taking to answer each question and have an understanding of the content and also familiarity with your resources to use them effectively.

It is your responsibility to log on to Moodle and complete the online test during the time the test is available. There is no opportunity to apply a late penalty. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not completed it by the scheduled date

and time.

Assessment Due Date
Week 6 Monday (24 Aug 2020) 8:00 pm AEST

The online test is open on Monday 24 August 2020 from 8:00am AEST to 8:00pm AEST. Once the test is accessed it remains open for 60 minutes. Only one attempt is allowed.

Return Date to Students
Week 7 Friday (4 Sept 2020)

Weighting
15%

Assessment Criteria
Question responses will be scored on the following criteria:

- correct use of 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
Online

Submission Instructions
You must log in to Moodle to complete the Online Test (a link can be found in the 'Online Test' section in Moodle). Once you have completed the Online Test, you must click the 'Submit' button to submit your responses.

Learning Outcomes Assessed

- Discuss the responsibilities, role and scope of practice of medical radiation practitioners, particularly in the contexts of professional, medico-legal and regulatory frameworks
- Apply basic concepts of radiation science and instrumentation to radiographic imaging.

Graduate Attributes

- Communication
- Problem Solving
- Ethical practice

2 Lab Attendance & Workbook

Assessment Type
Laboratory/Practical

Task Description
The online labs and res school provide you with an opportunity to observe and work with the radiographic imaging equipment, applying the theory concepts covered in the unit. The activities will enable you to develop beginner level psychomotor skills in the use of professional equipment and occupational health and safety practices that will be required knowledge for Year 2 study. You will be provided with a workbook (in Moodle) to complete for this assessment based on the activities you will complete during the online lab activities (also provided in Moodle) and the activities you will complete at res school.
Workbook requirements:

- Use the workbook provided in Moodle and submit as a Word document.
- There is no word limit but a suggested size is approximately 1000-1500 words.
- You may include photos, images and diagrams from the labs. Ensure that any diagrams and images are properly labelled and linked to the content. All externally sourced images and/or diagrams must be acknowledged using the Harvard system. Avoid images and diagrams with very large file sizes as they will cause submission issues when you are uploading your portfolio on the unit Moodle site.
- Although you will work with classmates during res school to acquire some of the data used in your portfolio, the written component is an individual task and must be your own work. You must use data that you have personally obtained during the lab activities.

To complete the workbook, it will be essential for you to attend the res school. The specific dates and times are to be confirmed. If the res school cannot be held on-campus during Term 2 due to restrictions associated with the COVID-19

pandemic then it will be scheduled in the week prior to the start of Term 1 2021. In the absence of an approved extension there will be no opportunity to 'catch-up' on missed lab activities and you will be unable to complete sections of the workbook which may result in a 'Fail' grade for this assessment item.

Assessment Due Date
Week 11 Monday (28 Sept 2020) 5:00 pm AEST

Return Date to Students
Review/Exam Week Monday (12 Oct 2020)

Weighting
25%

Minimum mark or grade
50%

Assessment Criteria
The workbook is assessed on the following criteria:

- completeness of all sections of the workbook
- factual correctness of stated observations and unit content
- application of unit content in describing and discussing lab activities
- depth and breadth of responses to discuss and explain questions
- use of professional terminology
- clarity of communication

A detailed scoring rubric and further information will be available on the unit Moodle site.

Referencing Style

- Harvard (author-date)

Submission
Online

Learning Outcomes Assessed

- Discuss learning strategies and professional attributes that enable student health professionals to learn and operate effectively within the culture of the clinical workplace
- Apply basic concepts of radiation science and instrumentation to radiographic imaging.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence

3 Online Test

Assessment Type
Online Test

Task Description
You will complete an online test to demonstrate your understanding and ability to apply the concepts and use the terminology from all weeks of the unit excepting Weeks 2 and 3. All questions will be based on the posted weekly learning goals. The question types may include multiple choice, matching terms, labeling diagrams, fill-in-the-gap and short written responses. Question tasks may include definitions, analysis of photographs/diagrams/referrals, explanations and discussions.

This assessment is to be undertaken as an individual. As with all other university assessment, colluding with other students on non-group work tasks is considered academic misconduct. Inserting answers copied from other websites at the time of the online test is considered plagiarism. The online test is an open book assessment, however, you must remain mindful of the time you are taking to answer each question and have an understanding of the content and also familiarity with your resources to use them effectively.

Please note: It is your responsibility to log on to Moodle and complete the online test during the time the test is available. In the absence of an approved extension there can be no late penalty applied and you will receive a score of zero for this assessment.

Assessment Due Date

During the University Exam period - date and time to be advised

Return Date to Students

Certification of grades

Weighting
60%

Minimum mark or grade
50%

Assessment Criteria
Question responses will be scored on the following criteria:

- correct use of 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
Online

Learning Outcomes Assessed

- Discuss the responsibilities, role and scope of practice of medical radiation practitioners, particularly in the contexts of professional, medico-legal and regulatory frameworks
- Discuss the Australian healthcare system and the provision of diagnostic imaging services within it
- Discuss the scientific and humanistic aspects of the various diagnostic and therapeutic branches of the medical radiation sciences
- Discuss learning strategies and professional attributes that enable student health professionals to learn and operate effectively within the culture of the clinical workplace

Graduate Attributes

- Communication
- Critical Thinking
- 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