

In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



MEDI12005 *Imaging Science 3*

Term 2 - 2025

Profile information current as at 22/11/2024 08:14 pm

All details in this unit profile for MEDI12005 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 builds on Science and Instrumentation 1 (MEDI12001) and aims to provide you with insights about the x-ray generator and timing circuit in the digital environment. You will learn to apply concepts such as digital image processing, histogram analysis, post-processing and artificial intelligence (AI) to control radiographic image appearances. You will also be introduced to the physical and operational principles of specialised equipment such as orthopantomography (OPG), bone mineral densitometry, mammography, mobile and fluoroscopic systems. This unit will help you understand how image quality and dose can be influenced for fluoroscopic systems.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisites: MEDI11006 Imaging Science 1 MEDI12002 Imaging Science 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 - 2025

- 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

Information for Class and Assessment Overview has not been released yet.

This information will be available on Monday 19 May 2025

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 Coordinator reflection

Feedback

Some students found the post-tutorial bite size explanation (BSE) videos very helpful in explaining topics that they were having trouble with.

Recommendation

Continue with the provision of the post-tutorial bite size explanation (BSE) videos in future iterations of the unit to assist students with understanding the topics that they struggle with.

Feedback from Coordinator reflection Informal feedback from students

Feedback

The revamped 2 hr lab intensive session was well received by the students and assisted them in consolidating topics related to image processing and post-processing.

Recommendation

Continue with the adaptation of the 2 hr lab intensive session to support students in consolidating topics related to image processing and post-processing.

Feedback from Informal feedback from students Student Activity Monitor (SAM) data

Feedback

Some students preferred to study the unit by referring to the pdf documents of the lecture slides instead of watching the recorded lectures.

Recommendation

Encourage students to maximize their understanding by actively engaging with recorded lecture videos, fostering a deeper comprehension of course material beyond the confines of lecture slides.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 19 May 2025

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Information for Alignment of Learning Outcomes, Assessment and Graduate Attributes has not been released yet.

This information will be available on Monday 19 May 2025

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 23 June 2025

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.