

MRSC3105: Diagnostic Radiography Methods 111A

Callaghan

Semester 1 - 2024



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

OVERVIEW

Course Description	This course consolidates conventional diagnostic radiography approaches and extends the students' understanding of complex imaging modalities with particular focus on Computed Tomography (CT) as required for AHPRA accreditation and registration. Patient assessments for suitable imaging approaches are consolidated. Students will refine clinical reasoning skills to manage patients/clients, and professional practice and procedures.
Academic Progress Requirements	Nil
Requisites	Students must be concurrently enrolled in MRSC3111, have successfully completed HUBS1401, HUBS2103, MRSC2150 & MRSC2160, and be active in the BMRS (Honours) (Diagnostic Radiography) [40002] program to enrol in this course.
Assumed Knowledge	MRSC2150, MRSC2160
Contact Hours	Callaghan Computer Lab Face to Face On Campus 2 hour(s) per week(s) for 2 week(s) Assessments will be undertaken during these sessions in weeks 10 and 12. Lecture Face to Face On Campus 2 hour(s) per week(s) for 8 week(s) starting Week 1 Tutorial Face to Face On Campus 2 hour(s) per week(s) for 8 week(s) starting Week 1
Unit Weighting Workload	10 Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course.

COURSE OUTLINE

CONTACTS

Course Coordinator **Callaghan**
Miss Bianca Alcevski
Bianca.Alcevski@newcastle.edu.au
(02) 4913 8792
Consultation: Email to book an appointment

Teaching Staff Other teaching staff will be advised on the course Canvas site.

School Office **School of Health Sciences**
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SYLLABUS

Course Content This course focusses on developing knowledge and skills for a radiographer working in Computed Tomography (CT) . The course outlines the requirements to be able to conduct safe and effective Computed Tomography (CT) examinations as required to obtain AHPRA Registration.

In addition, this course covers areas of general radiography and fluoroscopy to both revise and consolidate the earlier semesters in the program.

Consideration is given to patient presentations such as Trauma, Paediatrics and Geriatrics.

Course Learning Outcomes **On successful completion of this course, students will be able to:**

1. Describe and apply profession specific diagnostic radiography practice and procedures for the regions being covered
2. Demonstrate clinical reasoning skills with regard to patient management and image evaluation which reflects the understanding of the clinical history and/or the impact on differential diagnosis to ensure the appropriate imaging pathway.
3. Demonstrate their knowledge of mechanisms of injury and/or the causes of disease processes on varying patient presentations
4. Continue to identify key imaging anatomy/surface anatomy to expand pattern recognition skills so as to identify radiographic pathology
5. Demonstrate and apply self-learning skills

Course Materials All course materials will be available on the MRSC3105 Canvas site.

ASSESSMENTS

This course has 3 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Quizzes	15 May 2024 (Quiz 1) 29 May 2024 (Quiz 2)	Individual	60%	1, 2, 3, 4, 5
2	Formal Examination	As timetabled in the formal exam period.	Individual	40%	1, 2, 3, 4, 5

Late Submissions The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 10% of the possible maximum mark for

that assessment item for each day or part day that the assessment item is late. Note: this applies equally to week and weekend days.

Assessment 1 - Quizzes

Assessment Type	Quiz
Description	Questions are accessed via Canvas. Students are allocated a time for the quiz and attend the allocated computer lab to complete the quiz. Contains content from weeks leading up to quiz. Quiz 1- Weeks 1, 2, 8, 9. Quiz 2- Weeks 1, 2, 8, 9, 10,11.
Weighting	60% (30% for each quiz)
Due Date	15 May 2024 (Quiz 1) 29 May 2024 (Quiz 2)
Submission Method	In allocated quiz time as per timetable. Invigilated closed-book exam on Canvas.
Return Method	Via Canvas
Feedback Provided	Marks available in Grades on Canvas. Class feedback posted on Canvas.

Assessment 2 - Formal Examination

Assessment Type	Formal Examination
Description	Computer exam to evaluate individual student knowledge of delivered content throughout the entire semester.
Weighting	40%
Due Date	As timetabled in formal exam period.
Submission Method	Formal Exam
Return Method	Not returned
Feedback Provided	Results are provided via Canvas

ADDITIONAL INFORMATION

Grading Scheme

This course is graded as follows:

Range of Marks	Grade	Description
85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.
75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.
65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.
50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.
0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.

*Skills are those identified for the purposes of assessment task(s).

Communication Methods	Communication methods used in this course include: <ul style="list-style-type: none">- Canvas Course Site: Students will receive communications via the posting of content or announcements on the Canvas course site.- Email: Students will receive communications via their student email account.- Face to face: communication will be provided via face to face meetings or supervision.
Course Evaluation	Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.
Oral Interviews (Vivas)	As part of the evaluation process of any assessment item in this course an oral examination (viva) may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the Oral Examination (viva) Procedure . In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the Student Conduct Rule .
Academic Misconduct	<p>All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. For the Student Academic Integrity Policy, refer to https://policies.newcastle.edu.au/document/view-current.php?id=35.</p> <p>The use of live-response ("homework helper") websites or applications during assessment items may be considered to be academic misconduct, and will be referred to the Student Academic Conduct Officer (SACO) under the University's Student Conduct Rule.</p> <p>The submission of generative AI chatbot (e.g. ChatGPT) products or materials, in whole or in part, and represented as a student's own original work, could be considered "dishonest or reckless conduct by a student to gain an advantage". This may be considered Academic Misconduct under the University's Student Conduct Rule.</p> <p>The use of websites or applications during assessment items ("Tabbing" or "Alt-Tabbing") may be considered to be academic misconduct, and will be referred to the Student Academic Conduct Officer (SACO) under the University's Student Conduct Rule. In all cases, unless your Course Co-Ordinator has explicitly allowed a resource, then you must assume that a resource (text, website and/or application) is not to be used during an assessment item.</p> <p>Academic Misconduct has the potential for serious consequences, including failing the course, or being suspended or excluded from the University.</p>
Adverse Circumstances	<p>The University acknowledges the right of students to seek consideration for the impact of allowable adverse circumstances that may affect their performance in assessment item(s). Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where:</p> <ol style="list-style-type: none">1. the assessment item is a major assessment item; or2. the assessment item is a minor assessment item and the Course Co-ordinator has specified in the Course Outline that students may apply the online Adverse Circumstances system;3. you are requesting a change of placement; or4. the course has a compulsory attendance requirement. <p>Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at: https://policies.newcastle.edu.au/document/view-current.php?id=236</p>
Important Policy Information	The Help button in the Canvas Navigation menu contains helpful information for using the Learning Management System. Students should familiarise themselves with the policies and procedures at https://www.newcastle.edu.au/current-students/respect-at-uni/policies-and-procedures that support a safe and respectful environment at the University.

This course outline was approved by the Head of School. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.