

MRSC2100: Diagnostic Radiography Methods IIA

Callaghan

Semester 1 - 2024



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

OVERVIEW

Course Description	This course consolidates conventional diagnostic radiography approaches and introduces imaging of more complex areas of the appendicular skeleton and introducing the axial skeleton. Patient assessments for suitable imaging approaches are reviewed. Students will continue to develop clinical reasoning skills to manage patients/clients, and professional practice and procedures.
Academic Progress Requirements	Nil
Requisites	Students must be concurrently enrolled in MRSC2110, have successfully completed MRSC1150 and MRSC1110, and be active in the Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography) [40002] program to enrol in this course.
Assumed Knowledge	MRSC1150 Diagnostic Radiography Professional Methods 1A MRSC1110 Diagnostic Radiography Professional Practice 1A
Contact Hours	<p>Callaghan Computer Lab * Face to Face On Campus 2 hour(s) per week(s) for 7 week(s) starting Week 1</p> <p>Examination (Laboratory) * Face to Face On Campus 2 hour(s) per term starting Week 7 Practical based scenario examination.</p> <p>Lecture Face to Face On Campus 2 hour(s) per week(s) for 6 week(s) starting Week 1</p> <p>* This contact type has a compulsory requirement.</p>
Unit Weighting	10
Workload	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 Dr Cameron Younger Cameron.Younger@newcastle.edu.au Consultation: via email
Teaching Staff	Other teaching staff will be advised on the course Canvas site.
School Office	School of Health Sciences Room 302, ICT Building Callaghan SchoolHealthSciences@newcastle.edu.au +61 2 4921 7053

SYLLABUS

Course Content	Diagnostic Radiography specific components: <ul style="list-style-type: none">• Musculoskeletal Imaging• Generic Health Science components• Critical appraisal of the scientific literature
Course Learning Outcomes	On successful completion of this course, students will be able to: <ol style="list-style-type: none">1. Describe and apply profession specific diagnostic radiography practice and procedures for the regions being covered which includes the axial skeleton. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Computed Tomography, MRI, Ultrasound, Fluoroscopy and Digital Imaging.2. To describe and apply profession specific diagnostic radiography practice and procedures for all patient presentations, including paediatric presentations in medical imaging. Consideration is given to all aspects of paediatric presentations in medical imaging.3. Further develop 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.4. Further develop their knowledge of mechanisms of injury and/or the causes of disease processes on varying patient presentations5. Identify key imaging anatomy/surface anatomy to continue development of pattern recognition skills so as to identify radiographic pathology
Course Materials	Provided.

COMPULSORY REQUIREMENTS

In order to pass this course, each student must complete ALL of the following compulsory requirements:

Contact Hour Requirements:

- Examination (Laboratory) has compulsory attendance
- Computer Lab Attend 80% of sessions

Course Assessment Requirements:

- Assessment 1 – Online, in term test: Pass Requirement - Students must pass this assessment item to pass the course.
- Assessment 2 – Written, in term test: Pass Requirement - Students must pass this assessment item to pass the course.
- Assessment 3 - Computer based exam: Pass Requirement - Students must pass this assessment item to pass the course.

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	Online in term test	Friday, April 5 th , 2024 (8pm submission)	Individual	30%	1, 2, 3, 4, 5
2	Online in term test	Friday, June 7 th (8pm submission)	Individual	30%	1, 2, 3, 4, 5
3	Written in term test	Per Exam Timetabling	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: 2-hour, online, in-term Examination (Interpretation Exam)

Assessment Type	2 hour online examination.
Description	Assessment of radiographic image interpretation, anatomy and critiquing.
Weighting	30%
Due Date	Friday, April 5 th , 2024 (8pm submission)
Submission Method	Online, via Canvas
Assessment Criteria	This assessment item is a Compulsory Course Component. A mark of 50% or greater is required to complete this assessment item.
Return Method	Nil
Feedback Provided	Discussion with Course Co-Ordinator
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 2: 2-hour, online, in-term Examination (Theory Exam)

Assessment Type	2 hour online examination.
Description	Assessment of radiographic theory.
Weighting	30%
Due Date	Fri, June 7 th , 2024 (submission time 8pm)
Submission Method	Online, via Canvas
Assessment Criteria	This assessment item is a Compulsory Course Component. A mark of 50% or greater is required to complete this assessment item.
Return Method	Nil
Feedback Provided	Discussion with Course Co-Ordinator
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 1: 2-hour, written, in-term Examination (Scenario Exam)

Assessment Type	2 hour written examination.
Description	Assessment of clinical knowledge and reasoning.
Weighting	40%
Due Date	Per Exam Timetable
Submission Method	Written paper
Assessment Criteria	This assessment item is a Compulsory Course Component. A mark of 50% or greater is required to complete this assessment item.
Return Method	Nil
Feedback Provided	Discussion with Course Co-Ordinator
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

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:

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 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>.

Adverse Circumstances 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:

1. the assessment item is a major assessment item; or
2. 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; or
4. the course has a compulsory attendance requirement.

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>

**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.

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