

MRSC2100: Diagnostic Radiography Methods IIA

Callaghan

Semester 1 - 2023



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.

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

**Callaghan
Computer Lab ***

Face to Face On Campus

2 hour(s) per Week for 7 Weeks starting Week 1

Written Examination*

Face to Face On Campus

2 hour examination in Week 7

Lecture

Face to Face On Campus

2 hour(s) per Week for 6 Weeks starting Week 1

Unit Weighting Workload

* This contact type has a compulsory requirement.
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Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course.

COURSE OUTLINE

www.newcastle.edu.au

CRICOS Provider 00109J

CONTACTS

Course Coordinator	Callaghan Miss Bianca Alcevski Bianca.Alcevski@newcastle.edu.au (02) 4913 8792 Consultation: Email contact preferred in the first instance
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
Course Learning Outcomes	<p>On successful completion of this course, students will be able to:</p> <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 on canvas.

COMPULSORY REQUIREMENTS

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

Contact Hour Requirements:

- Computer Lab There is a compulsory attendance requirement in this course. 80% Attendance Required
- Written Examination There is a compulsory attendance requirement in this course. 50% Pass Mark

Course Assessment Requirements:

- Assessment 1 - In Term Test: Pass Requirement - Students must pass this assessment item to pass the course.
- Assessment 2 - Formal Examination: Pass Requirement - Students must pass this assessment item to pass the course.
- Assessment 3 - Formal Examination: 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	Exam - online	In class closed-book examination in: <ul style="list-style-type: none">- Academic Week 4 in assigned Computer Laboratory class (15%)- Academic Week 6 in assigned Computer Laboratory class (15%)	Individual	30%	1, 2, 3, 4, 5
2	Written exam	6 April 2023 45-minute examination held over two sessions in MS202: <ul style="list-style-type: none">- 2pm- 3pm Session time will be given via canvas.	Individual	30%	1, 2, 3, 4
3	Exam - Formal*	As scheduled in formal exam period	Individual	40%	1, 2, 3, 4, 5

* This assessment has a compulsory requirement.

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.

Reminder

Reusing one's own work, or part thereof, that has been submitted previously and counted towards another course without permission from the relevant Course Coordinator and 2) making contact or colluding with another person, contrary to instructions, during an examination, in-term test, quiz or other individual assessment item are considered forms of Academic Fraud within the [Student Academic Integrity Policy](#). This information is located in the policy [glossary](#) under *academic fraud*, the [Academic Integrity Module](#) and/or details in HLSC1000 content on Academic Integrity.

Assessment 1 - Exam - online

Assessment Type	In Term Test
Description	Assessment of theoretical radiographic knowledge including image interpretation and anatomy knowledge.
Weighting	30%
Due Date	Academic Week 4 in assigned Computer Laboratory class (15%) Academic Week 6 in assigned Computer Laboratory class (15%)
Submission Method	Closed book, on-campus, invigilated examination. This submission will be done using the Canvas assessment system.
Return Method	Returned via Canvas site.
Feedback Provided	Feedback discussed in class and can be given upon request.
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 2 - Written examination

Assessment Type	Examination
Description	Assessment of student's clinical knowledge and reasoning.
Weighting	30%
Due Date	6 April 2023
Submission Method	Paper-based Exam, Closed book, on-campus, invigilated examination.
Return Method	Not returned.
Feedback Provided	via Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 3 - Exam - Formal

Assessment Type	Formal Examination
Description	Assessment of theoretical radiographic knowledge including image interpretation and anatomy knowledge.
Weighting	40%
Compulsory Requirements	Pass Requirement - Students must pass this assessment item to pass the course. Attempt/ submission requirement- Students must attempt/submit this assessment item to pass the course.
Due Date	As scheduled in formal exam period.
Submission Method	Formal Exam, Closed book, on-campus, invigilated examination.
Assessment Criteria	The assessment item is a Compulsory Course Component. A mark of 50% or greater is required to complete this assessment item.
Return Method	Not returned.
Feedback Provided	via Canvas
Opportunity to Reattempt	Students may be given the opportunity to reattempt this assessment if a fail grade is obtained and an adverse circumstance application is approved. A resit exam will be capped at 50%.

Reminder	Reusing one's own work, or part thereof, that has been submitted previously and counted towards another course without permission from the relevant Course Coordinator and 2) making contact or colluding with another person, contrary to instructions, during an examination, in-term test, quiz or other individual assessment item are considered forms of Academic Fraud within the Student Academic Integrity Policy . This information is located in the policy glossary under academic fraud, the Academic Integrity Module and/or details in HLSC1000 content on Academic Integrity.
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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

- 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

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/no-room-for/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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