MRSC1150: Diagnostic Radiography Methods 1

Callaghan Semester 2 - 2023



OVERVIEW

Course Description	This course introduces the clinical science of Diagnostic Radiography; the roles and responsibilities of the diagnostic radiographer in the health care team; conventional diagnostic radiography approaches; and issues related to the management of a patient undergoing a radiographic examination.	
Requisites	Students must be concurrently enrolled in MRSC1110, have successfully completed HUBS1105 and MRSC1010 and be active in the B Medical Radiation Science (Diagnostic) (Honours) program to enrol in this course.	R
Assumed Knowledge	HUBS1105, HUBS1401, MRSC1010, HLSC1000	
Contact Hours	Callaghan Computer Lab Face to Face On Campus 2 hour(s) per Week for 9 Weeks starting Week 1 Students are to attend all sessions unless an absence is supported by accepted adverse circumstance documentation. Lecture Face to Face On Campus 2 hour(s) per Week for 10 Weeks 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	

www.newcastle.edu.au CRICOS Provider 00109J



CONTACTS

Course Coordinator

Callaghan Miss Bianca Alcevski Bianca.Alcevski@newcastle.edu.au (02) 4913 8792 Consultation: Please email for an appointment

Teaching StaffOther 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 1. Musculo-skeletal Imaging 2. Cardio-Respiratory Imaging **Course Learning** On successful completion of this course, students will be able to: **Outcomes** 1. To describe and apply diagnostic radiography practice and procedures 2. Develop clinical reasoning skills so as to provide optimal patient management and outcomes, based on clinical history, patient presentation and differential diagnosis to ensure the appropriate imaging pathway 3. Develop a knowledge of the mechanisms of injury and/or the causes of disease 4. Identify key imaging anatomy 5. Develop pattern recognition and image interpretation skills so as to identify and describe imaging pathology Recommended course materials: **Course Materials** 1. Bontrager, K.L. & Lampignano, J.P. (2017) Textbook of Radiographic Positioning and Related Anatomy (9th Ed). St Louis: Elsevier Mosby. 2. Eisenberg, R.L. & Johnson, N.M. (2011) Comprehensive Radiologic Pathology (5th Ed). St Louis: Mosby. 3. Fleckenstein, P. & Tranum-Jensen, J. (2014) Anatomy in Diagnostic Imaging (3rd Ed). Denmark: Munksgaard. 4. McQuillan-Martensen, K. (2000) Radiographic Critique (2nd Ed). Philadelphia: Saunders. 5. Weir, J. & Abrahams, S. P. (2011) Imaging Atlas of Human Anatomy (4th Ed). London: Mosby. 6. Canvas resources - Students in this course should be automatically enrolled into the course site: MRSC1150 Diagnostic Radiography Methods I



COMPULSORY REQUIREMENTS

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

Contact Hour Requirements:

- Students are to attend all Computer Lab sessions unless an absence is supported by accepted adverse circumstance documentation.

Course Assessment Requirements:

- Assessment 1 In Term Test: Minimum Grade / Mark Requirement Students must obtain a specified minimum grade / mark in this assessment item to pass the course. In order to pass this course students must gain a minimum mark of 50% in the cumulative quiz results.
- Assessment 2 Formal Examination: Pass Requirement Students must pass this assessment item to pass the course. In order to pass this course students must gain a minimum mark of 50% in the formal examination

ASSESSMENTS

This course has 2 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involveme nt	Weighting	Learning Outcomes
1	Quizzes*	Throughout semester during computer lab/tutorial timeslots Week beginning 7 August- Formative Week beginning 14 August 20% Week beginning 28 August 20% Week beginning 16 October 20%	Individual	60%	1, 2, 3, 4, 5
2	Formal Examination*	During the formal examination 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.

Assessment 1 - Quizzes

Assessment Type	In Term Test
Description	Students will be required to assess a number of images and will be expected to be able to
	identify key imaging anatomy, name the radiographic projection, nominate the likely mechanism of injury or aetiology of the pathology demonstrated in the radiograph, describe
	the radiographic appearance of the pathology and assess the technical quality of
	radiographic images. The examination is designed to assess knowledge of specific
Weinhtin n	professional issues. Meets course objectives 1-5
Weighting	60%
	These are summative assessments and will contribute to your final grade.
Compulsory	Minimum Grade / Mark Requirement - Students must obtain a specified minimum grade /
Requirements	mark in this assessment item to pass the course. In order to pass this course students must
•	gain a minimum mark of 50% in the cumulative quiz results.
Due Date	Week beginning 7 August - Formative
	Week beginning 14 August 20%
	Week beginning 28 August 20%

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Submission Method	Week beginning 16 October 20% Due dates dependent on allocated computer labs. Closed book, on-campus, invigilated examination. This submission will be done using the Canvas assessment system.
Return MethodOnline via CanvasFeedback ProvidedDue dates dependent on allocated computer labs.Opportunity toStudents WILL NOT be given the opportunity to reattempt this assessment.Reattempt	
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 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 <u>Student Academic Integrity Policy</u> . This information is located in the policy <u>glossary</u> under <i>academic fraud</i> , the <u>Academic Integrity Module</u> and/or details in HLSC1000 content on Academic Integrity.

Assessment 2 - Formal Examination

Assessment Type Description	Formal Examination This assessment is designed to assess knowledge and understanding of key and basic specific professional concepts. Meets course objectives 1-5
Weighting Compulsory Requirements	40% 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 the formal exam period.
Submission Method	Formal exam, closed book, on campus invigilated examination
Return Method	Online via Canvas.
Feedback Provided	Online via Canvas.
Opportunity to	Students WILL NOT be given the opportunity to reattempt this assessment.
Reattempt	No reattempt is available unless appropriate Adverse Circumstance application is submitted.
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 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 <u>Student Academic Integrity Policy</u> . This information is located in the policy <u>glossary</u> under <i>academic fraud</i> , the <u>Academic Integrity Module</u> and/or details in HLSC1000 content on Academic Integrity.

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.
0-4	19	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).

CommunicationCommunication methods used in this course include:MethodsCanvas, Email, Discussion Board, Face to Face

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 <u>Oral Examination (viva)</u> <u>Procedure</u>. 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 <u>Student Conduct Rule</u>.
- 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.

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 <u>Student Conduct Rule</u>.

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 <u>Student Conduct Rule</u>.

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 <u>Student Conduct Rule</u>. 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.

Academic Misconduct has the potential for serious consequences, including failing the course, or being suspended or excluded from the University.

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).

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Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where:

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 PolicyThe 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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