

# MRSC3020: MRS Cross-Sectional Imaging 1

Callaghan

Semester 1 - 2024



THE UNIVERSITY OF  
NEWCASTLE  
AUSTRALIA

## OVERVIEW

<b>Course Description</b>	Medical radiation practitioners acquire, manage and manipulate 3D data sets to produce diagnostic medical images which are used to assist in patient management and treatment planning. All medical radiation practitioners are required to demonstrate knowledge of equipment safety requirements, explain principles of cross-sectional imaging, and implement CT imaging.
<b>Academic Progress Requirements</b>	Nil
<b>Requisites</b>	Students must have successfully completed: MRSC2150 and MRSC2160, <b>OR</b> MRSC2250 and MRSC2270, <b>OR</b> MRSC2350 and MRSC2380.
<b>Assumed Knowledge</b>	Completion of program specific Year 2 MRSC Methods and Professional Practice courses.
<b>Contact Hours</b>	<b>Callaghan Lecture</b> Face to Face On Campus, 2 hour(s) per week(s) for 9 week(s) starting Week 1  <b>Tutorial</b> Online 2 hour(s) per week(s) for 6 week(s)
<b>Unit Weighting Workload</b>	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

<b>Course Coordinator</b>	<b>Callaghan</b> Dr Cameron Younger Cameron.Younger@newcastle.edu.au Consultation: via email
<b>Teaching Staff</b>	Other teaching staff will be advised on the course Canvas site.
<b>School Office</b>	<b>School of Health Sciences</b> Room 302, ICT Building, Callaghan SchoolHealthSciences@newcastle.edu.au +61 2 4921 7053

# SYLLABUS

<b>Course Content</b>	<ul style="list-style-type: none"><li>Advanced anatomical imaging planes and orientation</li><li>Visual recognition of imaging modality</li><li>Image acquisition types</li><li>Imaging modality specific hardware and safety aspects</li><li>Multi-modality imaging anatomy of thorax and abdomen</li></ul>
<b>Course Learning Outcomes</b>	<b>On successful completion of this course, students will be able to:</b> <ol style="list-style-type: none"><li>Demonstrate recognition of imaging planes</li><li>Recognise the appearance of different imaging modalities</li><li>Identify normal anatomical structures on cross-sectional images.</li><li>Identify how anatomical variants, injuries and diseases differ from normal anatomy.</li></ol>
<b>Course Materials</b>	Provided

# COMPULSORY REQUIREMENTS

In order to pass this course, each student must:

- Attempt all assessment items, and
- Gain a grade of 50% or greater over the sum of all assessment items.

# SCHEDULE

To be advised via Canvas site

# ASSESSMENTS

This course has 4 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Online Quiz*	AW2/3 (March 8 <sup>th</sup> )	Individual	20%	1, 2
3	Online Quiz*	AW10/11 (May 17 <sup>th</sup> )	Individual	40%	3, 4
4	Formal Examination*	TBA (Examination Team to Advise)	Individual	40%	3, 4

\* This assessment has a compulsory requirement.

<b>Late Submissions</b>	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.
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## Assessment 1 – Online Quiz

<b>Assessment Type</b>	Online Quiz
<b>Description</b>	An online quiz assessing cross-sectional terminology and safety.
<b>Weighting</b>	20%
<b>Compulsory</b>	Submit assessment item - Must submit this assessment to pass the course..
<b>Requirements</b>	
<b>Due Date</b>	Academic Week 2/3 (~March 8 <sup>th</sup> ); final date and time to be finalised.
<b>Submission Method</b>	Online.
<b>Assessment Criteria</b>	
<b>Return Method</b>	Nil
<b>Feedback Provided</b>	Via Course Convenor
<b>Opportunity to Reattempt</b>	Students WILL NOT be given the opportunity to reattempt this assessment.

## Assessment 2 - Online Quiz

<b>Assessment Type</b>	Case Study / Problem Based Learning
<b>Description</b>	An online quiz
<b>Weighting</b>	40%
<b>Due Date</b>	Academic Week 10/11 (~March 17 <sup>th</sup> ); final date and time to be finalised.
<b>Submission Method</b>	Online
<b>Assessment Criteria</b>	
<b>Return Method</b>	Nil
<b>Feedback Provided</b>	Via Course Convenor
<b>Opportunity to Reattempt</b>	Students WILL NOT be given the opportunity to reattempt this assessment.

## Assessment 3 - Formal Examination

<b>Assessment Type</b>	Formal Examination
<b>Description</b>	Online Formal Examination
<b>Weighting</b>	40%
<b>Due Date</b>	TBA (Examinations Team)
<b>Submission Method</b>	
<b>Assessment Criteria</b>	
<b>Return Method</b>	
<b>Feedback Provided</b>	
<b>Opportunity to Reattempt</b>	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).

<b>Communication Methods</b>	Communication methods used in this course include email and Zoom discussions.
<b>Course Evaluation</b>	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.
<b>Oral Interviews (Vivas)</b>	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 <a href="#">Oral Examination (viva) Procedure</a> . 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 <a href="#">Student Conduct Rule</a> .
<b>Academic Misconduct</b>	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 <a href="https://policies.newcastle.edu.au/document/view-current.php?id=35">https://policies.newcastle.edu.au/document/view-current.php?id=35</a> .
<b>Adverse Circumstances</b>	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: <ol style="list-style-type: none"> <li>the assessment item is a major assessment item; or</li> <li>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;</li> <li>you are requesting a change of placement; or</li> <li>the course has a compulsory attendance requirement.</li> </ol> Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at: <a href="https://policies.newcastle.edu.au/document/view-current.php?id=236">https://policies.newcastle.edu.au/document/view-current.php?id=236</a>
<b>Important Policy Information</b>	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 <a href="https://www.newcastle.edu.au/current-students/respect-at-uni/policies-and-procedures">https://www.newcastle.edu.au/current-students/respect-at-uni/policies-and-procedures</a> 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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