

## MRSC2380: Nuclear Medicine Professional Practice 2B

Callaghan

Semester 2 - 2023



THE UNIVERSITY OF  
NEWCASTLE  
AUSTRALIA

## OVERVIEW

### Course Description

This course provides students with the opportunity to further develop Nuclear Medicine professional knowledge, skills, attitudes and experience, by participating in professional skill labs at university and by attending a professional placement at an accredited Nuclear Medicine clinical centre. The labs must be passed to be allowed to attend professional practice, and pass the course.

### Review of Progress Requirements

This course is a compulsory program requirement for students in the following program(s):

- Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)

In addition to meeting the University's overall requirements for academic progression, students enrolled in these program(s) must satisfactorily complete this course in order to progress in their program.

### Requisites

Students must be concurrently enrolled in MRSC2350, have successfully completed MRSC2300 & MRSC2330, and be active in the Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine) [40011] program to enrol in this course.

### Assumed Knowledge

MRSC2300  
MRSC2330

### Contact Hours

**Callaghan Clinical \***  
Face to Face Off Campus  
40 hour(s) per Week for 5 Weeks

**Laboratory \***  
Face to Face On Campus  
2 hour(s) per Week for 8 Weeks

**Lecture \***  
Face to Face On Campus  
2 hour(s) per Week for 3 Weeks

### Unit Weighting Workload

\* This contact type has a compulsory requirement.  
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

[www.newcastle.edu.au](http://www.newcastle.edu.au)

CRICOS Provider 00109J

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# CONTACTS

**Course Coordinator**      **Callaghan**  
Mr Andrew Lloyd  
Andrew.Lloyd@newcastle.edu.au  
49217069  
Consultation:

**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**

1.	Skeletal system
2.	Pulmonary system
3.	Endocrine system
4.	Gastro-intestinal system
5.	Genito-urinary system
6.	Radioimmunoassay
7.	Tumour imaging
8.	Infection imaging
9.	Therapy
10.	Cardiovascular
11.	Radiopharmacy

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

1. Demonstrate competence in the preparation and performance of more complex Nuclear Medicine procedures
2. Evaluate patients clinical presentation in conjunction with previous medical procedures
3. Demonstrate a professional attitude towards members of the public and other health care workers
4. Demonstrate effective communication to members of the public and other health care workers, such as information gathering, active listening and empathy
5. Practice within an ethical and legal framework
6. Develop clinical reasoning / management
7. Be able to apply the skills and knowledge necessary to employ an evidenced based approach to decision making in healthcare practice
8. Reflect upon, and evaluate and critique his or her role within and during the clinical period, according to the level of experience
9. Demonstrate radiopharmacy procedures

# COMPULSORY REQUIREMENTS

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

## Contact Hour Requirements:

- Clinical There is a compulsory attendance requirement in this course. Students must complete a minimum of 200 hours
- Laboratory There is a compulsory attendance requirement in this course.
- Lecture There is a compulsory attendance requirement in this course. Week 8 - Clinical Briefing - compulsory attendance

## Course Assessment Requirements:

- Assessment 1 - Report: Pass Requirement - Students must pass this assessment item to pass the course.

Assessment 2 - Tutorial / Laboratory Exercises: Pass Requirement - Students must pass this assessment item to pass the course.

## Pre-Placement Requirements:

- First Aid Certificate - students must complete a First Aid Certificate issued by an approved provider.
- NSW Health Verification Requirements - Mandatory NSW Health Verification Requirements must be met.

# 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	Report - Professional Placement Workbook*	14th November	Individual	50%	1, 2, 3, 4, 5, 6, 7, 8
2	Laboratory Skills Test*	Week 9 timetabled Laboratory Class. This may change due to availability of Tc99m activity.	Individual	10%	1, 9
3	Case Study	14 <sup>th</sup> November	Individual	30%	1, 2, 3, 4, 5, 6, 7, 8
4	Hotlab Quizzes	5 quizzes to be completed prior to attending the associated Lab Class.	Individual	10%	1, 9

\* 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. Late submission of Hotlab quizzes will not be marked.

## Assessment 1 - Professional Placement Workbook & Report

Assessment Type	Report
Purpose	To describe and measure the achievements of the student on their clinical placement.
Description	Students will receive a mark from their Clinical Supervisor, they will complete one case study, and two competency reports.
Weighting	50%
Compulsory Requirements	Pass Requirement - Students must receive an overall Supervisor grade of the expected level or above as well as in each criteria of their final report in order to pass this course.
Due Date	14th November
Submission Method	Online
Assessment Criteria	The final report filled in by the Clinical Supervisor will contribute 50% of the total marks for the course.

<b>Return Method</b>	Reflective reports will be marked satisfactory or unsatisfactory in accordance to a marking rubric provided on the Canvas site and explained during the pre-clinical lecture.
<b>Feedback Provided</b>	Online
<b>Opportunity to Reattempt</b>	Online - 30th of November. Students WILL NOT be given the opportunity to reattempt this assessment. No re-attempt for clinical placement without adverse circumstance application

## Assessment 2 – Hotlab Skills Test

<b>Assessment Type</b>	Skills Test
<b>Purpose</b>	To ensure students reach a minimum standard of competence in basic Hotlab Skills.
<b>Description</b>	A basic practical skills test will be carried out at the end of semester. The content of the test will be explained and demonstrated during the semester. Students must attend at least 6 Hotlab classes.
<b>Weighting</b>	10%
<b>Compulsory Requirements</b>	Pass Requirement - Students must pass this assessment item to pass the course.
<b>Length</b>	15 minutes
<b>Due Date</b>	Week 9 timetabled Laboratory Class. This may change due to availability of Tc99m activity.
<b>Submission Method</b>	In Class
<b>Assessment Criteria</b>	Demonstrated competence in an observed and timed skills test.
<b>Return Method</b>	Online
<b>Feedback Provided</b>	Online - Two weeks from completed assessment.

## Assessment 3 – Case Study

<b>Assessment Type</b>	Case Study
<b>Purpose</b>	To develop skills in communication and recognising clinical applications. To gain understanding of pathology and clinical pathways.
<b>Description</b>	Case Study
<b>Weighting</b>	30%
<b>Compulsory Requirements</b>	None
<b>Due Date</b>	14th November
<b>Submission Method</b>	Online
<b>Assessment Criteria</b>	The Case study will be marked in accordance to a marking rubric provided on the Canvas site and explained during the pre-clinical lecture.
<b>Return Method</b>	Online
<b>Feedback Provided</b>	Online - 30th of November.

## Assessment 4 - Laboratory Exercises

<b>Assessment Type</b>	Pre-Laboratory Exercises & Quizzes
<b>Purpose</b>	To ensure students engage with Hotlab content prior to attending classes.
<b>Description</b>	There will be 5 pre-class quizzes or exercises posted on the Canvas site, which will need to be completed before the timetabled Hotlab class for that week. Students must attend at least 6 Hotlab classes.
<b>Weighting</b>	2% per quiz, total of 10%
<b>Compulsory Requirements</b>	Quizzes must be completed before class or they will not contribute to grade.
<b>Length</b>	10-20 minutes per quiz
<b>Due Date</b>	Prior to timetabled classes
<b>Submission Method</b>	Online
<b>Assessment Criteria</b>	
<b>Return Method</b>	Online
<b>Feedback Provided</b>	Online & in Hotlab Class

# 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: Canvas announcements, Canvas discussion board, Canvas Mail, email ([Andrew.Lloyd@newcastle.edu.au](mailto:Andrew.Lloyd@newcastle.edu.au)), face to face and phone contact (49217069)

## 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. Students should participate in this process by completing the Course Experience Survey.

## 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>.

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](#).

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](#).

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.

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

#### **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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