

## MRSC2330: Nuclear Medicine Professional Practice IIA

Callaghan

Semester 1 - 2024



THE UNIVERSITY OF  
NEWCASTLE  
AUSTRALIA

## OVERVIEW

**Course Description** This course provides students with the opportunity to consolidate basic 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 Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine) program

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

**Requisites** Active in BMRS (Hons) (Nuc Med) (40011), concurrently enrolled in MRSC2300 & successfully completed MRSC1350 & MRSC1330.

**Assumed Knowledge** MRSC1300  
MRSC1330

**Contact Hours** **Callaghan Clinical \***  
Face to Face Off Campus  
Fulltime equivalent roster for 6 Weeks  
Complete a minimum of 30 shifts of compulsory professional practice during the placement

**Laboratory**  
\*Face to Face On Campus  
2 hour(s) per Week for 9 Weeks

**Lecture**  
\*Face to Face On Campus, 2 hour(s) per Week for 1 Weeks

\* This contact type has a compulsory requirement.  
\*Clinical Briefing/Debriefing - compulsory attendance

**Unit Weighting** 10

**Workload** Students are required to spend on average 120-140 hours of

# COURSE OUTLINE

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

CRICOS Provider 00109J

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effort (contact and non-contact) including assessments per 10 unit course.

## CONTACTS

<b>Course Coordinator</b>	<b>Callaghan</b> Mr David Lyall david.Lyall@newcastle.edu.au 0249215083 ICT308 Consultation: By appointment
<b>Teaching Staff</b>	Other teaching staff will be advised on the course Blackboard 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>	Nuclear Medicine Professional Practice: <ol style="list-style-type: none"><li>1. Skeletal system</li><li>2. Pulmonary system</li><li>3. Endocrine system</li><li>4. Gastro-intestinal system</li><li>5. Genito-urinary system</li><li>6. Tumour imaging</li><li>7. Infection imaging</li><li>8. Therapy</li><li>9. Cardiovascular Imaging</li></ol>
<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>1. Demonstrate competence in the preparation and performance of Nuclear Medicine procedures</li><li>2. Evaluate patients' clinical presentation in conjunction with previous medical procedures</li><li>3. Demonstrate a professional attitude towards members of the public and other health care workers</li><li>4. Demonstrate effective communication to members of the public and other health care workers, such as information gathering, active listening and empathy</li></ol>

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5. Practice within an ethical and legal framework
  6. Further develop clinical reasoning / management skills
  7. 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

### Course Materials

#### 1. Essential Texts:

- Mettler, F., Guiberteau, M. (2018) Essentials of Nuclear Medicine and Molecular Imaging. (7<sup>th</sup> Ed). Philadelphia:Saunders
- Saha, G.B. (2018) Fundamentals of Nuclear Pharmacy. (7<sup>th</sup> Ed). Springer

#### 2. Recommended Texts:

- Christian, P., Waterstram-Rich, K. (2016). Nuclear Medicine & PET/CT Technology & Techniques. (8<sup>th</sup> Ed). St Louis: Mosby.

#### 3. Canvas resources

The learning materials for this course will include will be located on the Canvas site. It is the student's responsibility to find and acquire relevant information for their work in this course.

## COMPULSORY REQUIREMENTS

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

### Contact Hour Requirements:

30 Shifts during professional placement, during the timetabled professional placement period

### Course Assessment Requirements:

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

- Clinical Supervisor's reports, the Final Clinical Supervisors Report and the Clinical Supervisors Assessment must demonstrate "expected level" or "above expected" or "well above expected" in all criteria to pass this course. Students must pass this assessment item to pass the course.
- Successfully complete 30 shifts in the designated Nuclear Medicine centre.

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

- Laboratory Exercises: Students must pass the radiopharmacy 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.
- National Police Check must be satisfactory

# ASSESSMENTS

This course has 2 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*	11 <sup>th</sup> June 2024, 1pm Clinical Supervisors report Case study reports Competencies	Individual	100% (50%)* (30%) (10%)	1, 2, 3, 4, 5, 6, 7 and 8
2	Laboratory Exercises*	Week 5 in timetabled laboratory	Individual	10%	1, 3, 4, 5, 6, 8

\* This assessment has a compulsory requirement.

## Withdrawing from this course and professional placement:

This course has block placements. The final date that a student may withdraw without academic penalty from this course is 1 week prior to the commencement of the placement.

### 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 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 - Report - Professional Placement Workbook

### Assessment Type Description

Report

All parts of the Clinical supervisors report are to be completed and signed by the clinical supervisor.

The workbook details the work to be completed during the professional placement and includes:

- Clinical Supervisors Reports (50%)\*
- Competency Evaluation forms (10%)
- Clinical Case Study Reports (40%)

Total: 100

### Compulsory Requirements

Pass Requirement - Students must pass this assessment item to pass the course.

Supervisors Assessment must demonstrate "expected level" or "above expected" or "well above expected" in all criteria to pass this course.

### Due Date

11<sup>th</sup> June 2024, 1pm

### Submission Method

Clinical Workbooks will be submitted via turnitin, by the due date.

<b>Assessment Criteria</b>	This assessment is has compulsory requirements, please read above
<b>Return Method</b>	N/A
<b>Feedback Provided</b>	Feedback will be provided via Canvas and written comments in the clinical workbooks.
<b>Opportunity to Reattempt</b>	Students WILL NOT be given the opportunity to reattempt this assessment. Can not re-attempt the clinical placement

## Assessment 2 - Laboratory Exercises

<b>Assessment Type</b>	Laboratory Exercises
<b>Description</b>	Students will demonstrate safe practice and effective professional skills in a laboratory.
<b>Weighting</b>	Satisfactory/ Non Satisfactory
<b>Compulsory Requirements</b>	Pass Requirement - Students must demonstrate minimum safety standards and be able to competently complete the professional procedure to pass the course.
<b>Due Date</b>	Week 5, during timetabled laboratory
<b>Submission Method</b>	Practical in the laboratory
<b>Assessment Criteria</b>	Competency
<b>Return Method</b>	Not applicable
<b>Feedback Provided</b>	Not applicable
<b>Opportunity to Reattempt</b>	Students WILL be given the opportunity to reattempt this assessment. Only if Adverse Circumstances application is approved

## 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:
<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>	<p>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:</p> <ol style="list-style-type: none"> <li>1. the assessment item is a major assessment item; or</li> <li>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;</li> <li>3. you are requesting a change of placement; or</li> <li>4. the course has a compulsory attendance requirement.</li> </ol> <p>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></p>
<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/no-room-for/policies- and-procedures">https://www.newcastle.edu.au/current-students/no-room-for/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.*