

## MRSC3380: Nuclear Medicine Professional Practice 3B

Callaghan

Semester 2 - 2023



THE UNIVERSITY OF  
NEWCASTLE  
AUSTRALIA

## OVERVIEW

<b>Course Description</b>	This course allows students to consolidate their basic professional skills and to refine their advanced professional skills by participating in lectures at university and by successfully completing a professional placement at an accredited Nuclear Medicine clinical centre.
<b>Review of Progress Requirements</b>	<p>This course is a compulsory program requirement for students in the following program(s):</p> <ul style="list-style-type: none"><li>- Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)</li></ul> <p>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.</p>
<b>Requisites</b>	Students must be concurrently enrolled in MRSC3355, successfully completed MRSC3305 and MRSC3330, and be active in the Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine) [40011] program to enrol in this course.
<b>Assumed Knowledge</b>	MRSC3305 MRSC3330
<b>Contact Hours</b>	<p><b>Callaghan Clinical *</b></p> <p>Face to Face Off Campus 40 hour(s) per Week for 6 Weeks Complete a minimum of 30 shifts of compulsory professional practice during the placement</p> <p><b>Lecture *</b></p> <p>Face to Face On Campus 2 hour(s) per Week for 1 Weeks Clinical de-briefing - compulsory attendance</p> <p>* This contact type has a compulsory requirement.</p>
<b>Unit Weighting</b>	10
<b>Workload</b>	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

## Course Coordinator

### Callaghan

Mr David Lyall  
Room 308, ICT Building  
David.Lyall@newcastle.edu.au  
0249215083

### Alternate Contact

Associate Professor  
Daphne James  
Room 376A, ICT Building  
[Daphne.james@newcastle.edu.au](mailto:Daphne.james@newcastle.edu.au)  
02 49215596

Other teaching staff will be advised on the course Canvas site.

## School Office

### School of Health Sciences

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# SYLLABUS

## Course Content

1. Skeletal system
2. Pulmonary system
3. Endocrine system
4. Gastro-intestinal system
5. Genito-urinary system
6. Tumour imaging
7. Cardiovascular system
8. Infection localisation
9. Paediatrics
10. Therapy
11. Positron Emission Tomography (PET), PET/CT & SPECT/CT, & CT
12. Bone densitometry
13. Central nervous system
14. Lymphatics
15. Molecular imaging

## Course Learning Outcomes

### On successful completion of this course, students will be able to:

1. Demonstrate competence with performing complex Nuclear Medicine procedures involving pharmaceutical contraindication knowledge
2. Perform complex image analysis.
3. Demonstrate a professional attitude towards members of the public and other health care workers
4. Demonstrate clinical reasoning / management skills consistent with their level of experience
5. Combine good communication skills with members of the public and other health care workers in the delivery of patient care
6. Practice within an ethical and legal framework
7. Describe the current and future roles that may be required to practice within and reflect on the need for continual learning to improve clinical practice

8. Apply the skills and knowledge necessary to employ an evidenced based approach to decision making in healthcare practice

9. Reflect upon, and evaluate and critique his or her role within and during the clinical placement, 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:

- Clinical There is a compulsory attendance requirement in this course.
- Lecture There is a compulsory attendance requirement in this course.

### Course Assessment Requirements:

- Assessment 1 - Report: 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 1 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*	Tuesday 12 <sup>th</sup> September, 2023, 10am  - Clinical Supervisors Report - Case Study Reports - Competency	Individual	100%  (50%)* (40%) (10%)	1, 2, 3, 4, 5, 6, 7, 8, 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.

## Assessment 1 - Report - Professional Placement Workbook

<b>Assessment Type</b>	Report
<b>Description</b>	<p>All parts of the Clinical supervisors report are to be completed and signed by the clinical supervisor.</p> <p>The workbook details the work to be completed during the professional placement and includes:</p> <ul style="list-style-type: none"><li>- Clinical Supervisors Reports</li><li>- Competency Evaluation forms</li><li>- Clinical Case Study Reports</li></ul>
<b>Weighting</b>	100%
<b>Compulsory Requirements</b>	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.
<b>Due Date</b>	Tuesday 12 <sup>th</sup> September 2023, 10am
<b>Submission Method</b>	Clinical Workbooks will be submitted to the Courses Coordinator and case study reports submitted via turnitin, both by the due date.
<b>Assessment Criteria</b>	This assessment is has compulsory requirements, please read above
<b>Return Method</b>	Clinical workbooks will be available for pick up from the course coordinator or other person as advised.
<b>Feedback Provided</b>	Clinical workbooks will be available for pick up from the course coordinator or other person as advised
<b>Opportunity to Reattempt</b>	There is no opportunity to reattempt

# 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: face to face, email and phone

## 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>.

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**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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