

## MRSC1220: Radiation Therapy Professional Practice 1B

Callaghan

Semester 2 - 2023



THE UNIVERSITY OF  
NEWCASTLE  
AUSTRALIA

## OVERVIEW

### Course Description

This course provides students with the opportunity to begin to develop professional knowledge, skills, attitudes, and experience, by participating in professional skill labs at university and by attending a professional placement at an accredited radiation therapy clinical centre. The labs and professional placement will increase confidence and competence in undertaking and participating in basic professional procedures. The labs must be passed to be allowed to attend professional placement 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) (Radiation Therapy)

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

### Requisites

This course is only available to students who are concurrently enrolled in MRSC1201, successfully completed MRSC1010, HLSC1000 & HUBS1105 and active in the Bachelor of Medical Radiation Science (Honours) (Radiation Therapy) [40010] program.

### Assumed Knowledge Contact Hours

HUBS1105, HUBS1401, MRSC1010, HLSC1000

#### Callaghan Clinical \*

Face to Face Off Campus  
80 hour(s) per Term Full Term  
80 hours professional placement

#### Laboratory \*

Face to Face on Campus  
2 hour(s) per Week for 8 Weeks

#### Lecture \*

Face to Face on Campus  
2 hour(s) per Term Full Term  
1-hour Clinical briefing prior to placement and 1-hour de-briefing after completion of placement.

\* This contact type has a compulsory requirement.

### Unit Weighting Workload

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

<b>Course Coordinator</b>	<b>Callaghan</b> <b>Ms Laura Feighan</b> Laura.Feighan@newcastle.edu.au Consultation: Please email to organise a time to meet, or book a drop-in session via the Canvas calendar
<b>Clinical Placement Coordinator</b>	<b>Debra Lee</b> <a href="mailto:Debra.Lee@newcastle.edu.au">Debra.Lee@newcastle.edu.au</a> Work Phone: (02) 4913 8181.
<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>	<ol style="list-style-type: none"><li>1. An introduction to radiation therapy professional practice</li><li>2. An introduction to radiation therapy simulation, planning and treatment</li><li>3. An introduction to radiation oncology departments and other service departments</li><li>4. Basic professional skills in planning and treatment</li><li>5. Conventional and conformal radiation therapy approaches</li><li>6. Effective communication, ethical practice</li><li>7. Patient care including occupational health &amp; safety, infection control, aseptic techniques. physical and pain assessment, recording clinical history and responding to medical emergencies.</li></ol>
<b>Course Learning Outcomes</b>	<p><b>On successful completion of this course, students will be able to:</b></p> <ol style="list-style-type: none"><li>1. Demonstrate skills in the design and quality assurance checking of basic level treatment plans, and implementation of plans into treatment</li><li>2. Evaluate plans against ICRU criteria and ensure that they meet recognised and accepted criteria (ICRU 50/62)</li><li>3. Apply and participate in basic level radiation therapy treatment, planning and simulation procedures</li><li>4. Demonstrate a professional attitude towards members of the public and other health care workers</li><li>5. Demonstrate effective communication to members of the public and other health care workers, such as information gathering, active listening and empathy</li><li>6. Practice within an ethical and legal framework</li><li>7. Develop clinical reasoning / management skills</li><li>8. Apply the skills and knowledge necessary to employ an evidenced based approach to decision making in healthcare practice</li><li>9. Reflect upon, and evaluate and critique his or her role within and during the clinical period</li><li>10. Observe and identify the role and function of medical radiation practitioners and health care team members in the delivery of health care</li></ol>

11. Demonstrate an understanding of the importance of occupational health and safety issues relevant to their profession
12. Demonstrate an ability to perform a physical and pain assessment including written clinical history documentation
13. Identify the signs and symptoms of medical emergencies that may occur in medical imaging or radiation therapy departments and demonstrate actions that may be taken to manage these.

**Course Materials**

Supplied on Canvas

**Recommended:** A PC mouse is highly recommended for use of software while completing planning activities off-campus.

## COMPULSORY REQUIREMENTS

To pass this course, each student must complete ALL of the following compulsory requirements:

**Contact Hour Requirements:**

**COMPULSORY 100% ATTENDANCE REQUIRED FOR LABS, LECTURES (Clinical Briefings) & PLACEMENT**

**Lecture:** Students must attend both lectures (Week 6 and 11) to pass this course.

**Laboratory:** 2 hours per week for 8 weeks

**Placement:** Maximum of 80 hours / 10 days rostered shifts of compulsory practice during semester.

**2023 Pre-Placement Requirements:**

Students must complete the following pre-placement requirements in preparation for placement in 2023: • First Aid Certificate - students must complete a First Aid Certificate issued by an approved provider. Students must have a current Work Cover approved First Aid Certificate. • NSW Health Verification Requirements - Mandatory NSW Health Verification Requirements must be met. Mandatory NSW Health Verification Requirements must be met. For more information, please visit [www.newcastle.edu.au/health-medicine-placement](http://www.newcastle.edu.au/health-medicine-placement) and the MRS Canvas site • WHS Requirement - Students must complete a Workplace Safety Induction or Risk Assessment

Students will be allocated a clinical placement in 2023. Students cannot change their clinical placement site due to not being able to demonstrate the above requirements. Any student excluded from placement because they are unable to demonstrate the above requirements will not be able to pass this course and will be given a failed grade (FF) for the course. Any student not able to fulfil the above requirements, or who are unwilling to meet these requirements, need to make an appointment with the course coordinator to discuss their progress in this course and the degree.

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

**Course Assessment Requirements:**

**Assessment 1 - Laboratory Exercises:**

Minimum Grade / Mark Requirement - Minimum Grade Requirement: The overall assessment item must be passed to be allowed to attend Professional Placement, and to pass the course. There are 3 individual lab exercises requiring submission. Students will be allowed to re-submit only 1 unsatisfactory lab quiz/exercise. More than 1 unsatisfactory submission will lead to an unsatisfactory assessment for the assessment item. Students who receive an unsatisfactory assessment for the lab exercises will not meet the essential criteria requirements for the assessment item and will be given a fail grade (FF) for the course. No opportunity for remediation in the lab exercises will be allowed unless accompanied by the appropriate Adverse Circumstance documentation.

**Assessment 2 - Portfolio:** Attempt / Submission Requirement - Students must attempt/submit all parts of the Professional Placement Workbook including written reports. The workbook outlines the work to be completed during the Professional Placement.

**Assessment 3 – Placement Practical Demonstration:** Minimum Grade / Mark Requirement: In order to pass the course, a student must obtain the following grades in the Assessment: A minimum of a Satisfactory level of achievement in the following sections:

- Section 3: Professionalism & Ethical Practice
- Section 4: Care & Clinical Management
- Section 5: Fitness to Practise

**OH&S Requirements** Students undertaking this Course must have the appropriate personal protective equipment to be allowed to undertake their studies. These include, but are not limited to:

- Personal Radiation Monitoring whilst undertaking Clinical Practicum and approved uniform and covered shoes.
- Site-determined Personal Protective Equipment (PPE) whilst undertaking Clinical Practicum. Students must have the minimum necessary Personal Protective Equipment to undertake their Clinical Practicum, and the Clinical Practicum Centre reserve the right to ensure safe practice by excluding students attending their clinical centre without appropriate PPE. Students have a responsibility for their own appropriate PPE. This must be confirmed with the Clinical Centre prior to commencement of their clinical practicum.

## 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	Laboratory Exercises*	<p>Quiz 1: To be submitted by: 4pm Friday 11th August (Week 4) - 10%</p> <p>Quiz 2: To be completed at: 2pm – 3pm, Wednesday 23rd August (Week 6) - 20%</p> <p>Lab Exercise Assessment Week 13 Time TBA - 30%</p> <p>Contouring Activities – S/NS Dates as per Canvas</p>	Individual	60%	1 - 3
2	Professional Placement Workbook*	Dates dependent on placement week. Workbook and reports due 10 days post placement completion at 11am.	Individual	40%	4 - 12
3	Professional Placement*	As per SONIA online placement system	Individual	S/NS	1 - 10

### 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 - Laboratory Exercises

<b>Assessment Type</b>	Laboratory Exercises and Quizzes
<b>Description</b>	The Laboratory Exercises and assessments are a Compulsory Course Component, i.e. students must attempt and pass this assessment item to pass the course. There are 3 graded assessments totalling 60% of the final course mark. Submission of Formative contouring activities is compulsory
<b>Weighting</b>	<p>Total 60%:</p> <p>Quiz 1: 10%</p> <p>Quiz 2: 20%</p> <p>Lab Assessment: 30%</p> <p>Contouring submissions: S/NS</p>
<b>Compulsory Requirements</b>	Compulsory 100% ATTENDANCE REQUIRED
<b>Due Date</b>	<p>Minimum Grade Requirement: Students must pass this assessment item overall to pass the course.</p> <p>Quiz 1: To be submitted by: 4pm Friday 11th August (Week 4) Canvas - 10%</p> <p>Quiz 2: To be completed at 2pm – 3pm, Wednesday 23rd August (Week 6) Live via ZOOM and</p>

	Canvas - 20%
	Lab Exercise Assessment Week 13 Time TBA via Canvas - 30%
	Contouring Activities
	Dates as per Canvas
<b>Submission Method</b>	Canvas
<b>Assessment Criteria</b>	As per Canvas
<b>Return Method</b>	Via Canvas
<b>Feedback Provided</b>	Yes
<b>Opportunity to Reattempt</b>	Students WILL be given the opportunity to reattempt this assessment on one occasion. Opportunity for remediation may be permitted only if accompanied by the appropriate Adverse Circumstance documentation and if within policy guidelines.

## Assessment 2 - Professional Placement Workbook

<b>Assessment Type</b>	Portfolio
<b>Description</b>	Completion of all parts of the Professional Placement Workbook and reports. Professional Placement Workbook: The placement workbook contains a series of three critical analysis and reflection reports.
<b>Weighting</b>	40%
<b>Compulsory Requirements</b>	Attempt / Submission Requirement - Students must attempt/submit this assessment item to pass the course.
<b>Due Date</b>	Dates dependent on placement week. Workbook and reports due 10 days post placement completion at 11am.
<b>Submission Method</b>	Canvas
<b>Assessment Criteria</b>	As per Canvas
<b>Return Method</b>	Canvas
<b>Feedback Provided</b>	Yes
<b>Opportunity to Reattempt</b>	Opportunity for remediation may be permitted only if accompanied by the appropriate Adverse Circumstance documentation and if within policy guidelines.

## Assessment 3 - Professional Placement

<b>Assessment Type</b>	Practical Demonstration/Observation
<b>Description</b>	Clinical Professional Practice Professional Placement Hours or Shifts: Students are expected to meet the attendance requirements (10 days) for Professional Placement. Students not meeting the attendance requirements for Professional Placement will not meet the essential criteria requirements for the assessment item and will be given a failed grade (FF) for the course. No opportunity for remediation for the Professional Placement will be allowed unless accompanied by the appropriate Adverse Consideration documentation.
<b>Weighting</b>	This is a formative assessment and will not contribute to your final grade.
<b>Compulsory Requirements</b>	Minimum Grade / Mark Requirement - Students must obtain a specified minimum grade / mark in this assessment item to pass the course. Satisfactory in following sections: <ul style="list-style-type: none"> <li>• Professionalism</li> <li>• Fitness to Practise</li> </ul>
<b>Due Date</b>	As per SONIA
<b>Submission Method</b>	Submitted by clinical placement supervisor. Emailed to RTPlacement@newcastle.edu.au
<b>Assessment Criteria</b>	Due 10 days post placement completion at 11am.
<b>Return Method</b>	N/A
<b>Feedback Provided</b>	No
<b>Opportunity to Reattempt</b>	Opportunity for remediation may be permitted only if accompanied by the appropriate Adverse Circumstance documentation and if within policy guidelines.

## 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 Canvas announcements (primary method) and email.
<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>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> <p>Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at:</p>

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<https://policies.newcastle.edu.au/document/view-current.php?id=236>

**Important Policy  
Information**

The 'HELP for Students' tab in UoNline contains important information that all students should be familiar with, including various systems, policies, and procedures.

*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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