

School of Health Sciences

College of Health, Medicine and Wellbeing

MRSC2220: Radiation Therapy Professional Practice 2A

Callaghan

Semester 1 - 2024



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

OVERVIEW

Course Description

This course provides students with the opportunity to further develop professional knowledge, experience and competence, in conventional and conformal low to medium level clinical procedures, by participating in professional skill labs at University and by attending a professional placement at an accredited radiation therapy clinical centre. The labs must be passed to be allowed to attend professional placement, and pass the course. This course is mandatory and must be passed in order to progress in the Bachelor of Medical Radiation Science (Radiation Therapy) Bachelor of Medical Radiation Science (Honours) (Radiation Therapy).

This Course recognises the Professional Capabilities developed by the Medical Radiation Practice Board of Australia. The Document 'Professional Capabilities For Medical Radiation Practice' outlines via Domains the requirements for a Competent Practitioner.

Domain 1: Medical Radiation Practitioner

1C: Radiation Therapist

Domain 2: Professional and ethical practitioner

Domain 3: Communicator and collaborator

Domain 4: Evidence-informed practitioner

Domain 5: Radiation safety and risk manage

Academic Progress Requirements

This course is a compulsory program requirement and is monitored for academic progress purposes. The course must be completed to progress in the program or meet other program requirements.

Failure or withdrawal from this course will result in students being considered under the Student Academic Progress Procedure.

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

Students must be concurrently enrolled in MRSC2200, have successfully completed MRSC1201 and MRSC1220, and be active in the Bachelor of Medical Radiation Science (Honours) (Radiation Therapy) program to enrol in this course.

Assumed Knowledge

MRSC1201 Radiation Therapy Methods 1B

MRSC1220 Radiation Therapy Professional Placement 1B

COURSE OUTLINE

www.newcastle.edu.au

CRICOS Provider 00109J

Contact Hours**Callaghan****Professional Placement ***

Face to Face Off Campus
5 days per week for 6 week(s)

Laboratory

Face to Face On Campus
4 hour(s) per week(s) for 7 week(s) starting Week 1
2 hours per week supervised lab, and 2 hours per week independent practice lab.

Seminar *

Face to Face On Campus
2 hour(s) per week(s) for 1 week(s)
Pre-clinical briefing Seminar

* 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.

CONTACTS

Course Coordinator**Callaghan**

Mrs Leah Cramp
Leah.Cramp@newcastle.edu.au
(02) 4921 6381
Consultation:

Monday- Friday. Please call or email to make an appointment

Teaching Staff

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

School Office**School of Health Sciences**

Room 302, ICT Building
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SYLLABUS

Course Content

1. Isocentric Treatment & Planning
2. Conventional and Conformal Radiation Therapy approaches
3. ICRU Report 50 and Report 62 - Prescribing, Reporting and Recording External Beam Therapy
4. Dosing techniques and plan evaluation including visual assessment, statistical assessment, dose-volume histogram assessment, biological models of dosing
5. 3-dimensional planning
6. Patient assessment with regard to quality of life, living with illness, and treatment toxicity criteria

Course Learning Outcomes

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

1. Demonstrate competence in the design and quality assurance checking of basic and medium-level treatment plans and implementation of plans into treatment.
2. Evaluate plans against ICRU criteria and ensure that they meet recognised and accepted criteria (ICRU 50/62)
3. Participate in basic and medium-level radiation therapy treatment, planning and simulation procedures.
4. Demonstrate a professional attitude towards members of the public and other healthcare workers.
5. Apply effective communication to members of the public and other healthcare workers, such as information gathering, active listening and empathy.
6. Practice within an ethical and legal framework.
7. Develop clinical reasoning/management skills.
8. Apply the skills and knowledge necessary to employ an evidence-based approach to decision making in healthcare practice.
9. Reflect upon, and evaluate and critique his or her role within and during the clinical period, according to the level of experience.

COMPULSORY REQUIREMENTS

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

Contact Hour Requirements:

- Professional Placement: There is a compulsory attendance requirement in this course. Minimum of 210hours/30 shifts of compulsory clinical practice during the semester.

NOTE: Placement is a mandatory component of your degree. You will not graduate if you cannot satisfactorily complete placement. You will not be able to enter a NSW Health facility unless you have completed the pre-placement requirements.

- Seminar There is a compulsory attendance requirement in this course. Clinical Briefing 2 hrs per semester - compulsory attendance.

Course Assessment Requirements:

- Assessment 1 - Tutorial / Laboratory Exercises: Pass Requirement - Students must pass this assessment item to pass the course. Labs are a compulsory course requirement with 100% attendance required
- Assessment 2 - Portfolio: Pass Requirement - Students must pass this assessment item to pass the course.

In order to pass the course, students must obtain the following grades in the Final Summative Assessment

- A minimum of '3' (Satisfactory level of achievement) in Sections 1-4
- A minimum "S" (Satisfactory level of achievement) in Sections 5 and 6

Compulsory Placement and WHS Requirements:

- NSW Health Verification Requirements - Mandatory NSW Health Verification Requirements must be met. - Current first aid certificate
- NPC National Police Check
- International Students (additional requirements): Police Certificates from all previous countries of residence
- Students will be allocated a clinical placement. 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 is unwilling to meet these requirements needs to make an appointment with the course coordinator to discuss their progress in this course and the degree.

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

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	Laboratory Exercises*	Week 3, 6 and 7	Individual	20%	1, 2, 3
2	Professional Skills / Clinical Competence Portfolio*	7 th June 2024 by 6pm	Individual	80%	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.

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 2) 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 - Laboratory Exercises

Assessment Type

Tutorial / Laboratory Exercises

Description

The Laboratory Exercises and assessments are a Compulsory Course Component, i.e. Students must pass this assessment item to pass the course.

This assessment is made of three submissions (Procedure submission + VIVA and Online quiz).

In order to pass the course the student must attempt all assessment items and the student must obtain a mark of 50% or over for the collective assessment mark. Labs require 100% attendance. All critique and simulation report components of laboratory cases are required to be submitted to Turnitin for plagiarism checking. Submission instructions will be available on Canvas

Weighting

20% (Ass1=7%, Ass2=6% Ass3=7%)

Compulsory Requirements

Pass requirement - Must pass this assessment item to pass the course

Due Date

Weeks 3, 6 and 7

Submission Method

Online

Assessment Criteria

See assessment rubric on Canvas

Return Method

Canvas

Feedback Provided

Face to face and online

Opportunity to Reattempt

Students WILL be given the opportunity to reattempt this assessment only with appropriate Adverse Circumstances application

Assessment 2 - Professional Skills / Clinical Competence Portfolio

Assessment Type	Portfolio
Description	<p>Professional Placement Workbook:</p> <p><i>1. Professional Skill Attainment:</i> The Radiation Therapy program has a list of competencies (Professional skills) that all students of the program should be able to attain. Students have 6 weeks of Professional Placement and during this time should be able demonstrate Professional Skill attainment. Where students have not attained the required skills during the placement, the Clinical Supervisor of the Placement will be contacted to advise of the reasons (e.g., lack of procedures or opportunity during the placement, or lack of skill by the student). Where the Clinical Supervisor indicates that the opportunity was available for the student to gain the necessary skill, those students not able to demonstrate the attainment of the required skills will be assessed as Unsatisfactory for the assessment item, and will not meet the essential criteria requirements for the assessment item, and will be given a fail grade (FF) for the course.</p> <p><i>2. Radiation Therapy Clinical Supervisors assessment:</i> This report assesses the student against a series of skill-based and attitudinal indicators undertaken on their rotation through-out the department. The assessment report contains both weekly formative feedback, and a final summative assessment. Students failing to meet the essential criteria will not meet the essential criteria requirements for the assessment item and will be given a failed grade (FF) for the course. The student must attain a 50% mark in this section to pass the course. The Clinical Supervisor Report is weighted as 40% of the course mark.</p> <p><i>3. Radiation Therapy Critical analysis and reflection on practice reports:</i> Students are required to obtain a combined mark of 50% in this section for critical analysis and reflection reports. The combined mark of the Critical analysis and Reflection on practice reports is weighted as 40% of the course mark.</p> <p><i>4. Professional Placement Hours or Shifts:</i> Students are expected to meet the attendance requirements 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.</p>
Weighting	80% (Supervisor Report=50%, Written Report A= 15%, Written Report B=15%)
Compulsory Requirements	<p>Pass requirement - Must pass this assessment item to pass the course.</p> <p>In order to pass the course, students must obtain the following grades in the Final Summative Assessment:</p> <p>A minimum of '3' (Satisfactory level of achievement) in Sections 1-4</p> <p>A minimum "S" (Satisfactory level of achievement) in Sections 5 and 6</p>
Due Date	7 th June 2024 by 6pm
Submission Method	Online
Assessment Criteria	See rubric in placement workbook and on canvas
Return Method	Canvas
Feedback Provided	Face to face and on canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment. Cannot re-attempt clinical placement

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 Course Site: Students will receive communications via the posting of content or announcements on the Blackboard course site.

Email: Students will receive communications via their student email account.

Face-to-Face: Communication will be provided via face-to-face meetings or supervision

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>.

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/respect-at-uni/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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