

MRSC2270: Radiation Therapy 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 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 professional procedures of increasing difficulty or complexity. The labs must be passed to be allowed to attend professional placement, and pass the course.

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 of 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 manager

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 in order to progress in their program.

Requisites

Students must be concurrently enrolled in MRSC2250, have successfully completed MRSC2200 and MRSC2220, and be active in the Bachelor of Medical Radiation Science (Honours) (Radiation Therapy) [40010] program to enrol in this course.

Assumed Knowledge

MRSC2200 Radiation Therapy Methods IIA
MRSC2220 Radiation Therapy Professional Practice IIA

COURSE OUTLINE

www.newcastle.edu.au

CRICOS Provider 00109J

Contact Hours	Callaghan Clinical * Face to Face Off Campus 40 hour(s) per Week for 5 Weeks
	Laboratory * Face to Face On Campus 4 hour(s) per Week for 8 Weeks 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 for 1 Week Pre-clinical briefing Seminar
	* This contact type has a compulsory requirement.
Unit Weighting	10
Workload	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 email or phone 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 Callaghan SchoolHealthSciences@newcastle.edu.au +61 2 4921 7053

SYLLABUS

Course Content

1. Radiation Therapy of the Pelvis
2. Radiation Therapy of the Breast
3. Radiation Therapy of the Abdomen
4. Electron Radiation Therapy
5. Conventional and Conformal Radiation Therapy in simulation treatment and planning.
6. ICRU Report 50, Report 62 and Report 83 - Prescribing, Reporting and Recording External Beam Therapy.
7. 3D conformal planning and plan evaluation including visual assessment, statistical assessment, dose volume histogram assessment, biological models of dosing.
8. Patient assessment with regard to quality of life, living with illness, and treatment toxicity criteria.
9. QA and auditing in Radiation Therapy.

Course Learning Outcomes

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

1. Demonstrate a broad and current knowledge of treatment planning and of all imaging and treatment modalities used in current standard breast and abdomen pelvis techniques of a mid level complexity.
2. Evaluate plans against ICRU criteria and ensure that they meet recognised and accepted criteria (ICRU 50/62/83).
3. Apply and participate in mid level complexity radiation therapy treatment, planning and simulation procedures.
4. Demonstrate a professional attitude towards members of the public and other health care workers.
5. Demonstrate clear, sensitive and effective communication with members of the public and other health care workers, patients/clients and their family, such as information gathering, active listening and explaining techniques and procedures. Display appropriate professional behaviour in patient/client interactions, including empathy.
6. Practice within an ethical and legal framework. This includes practising in a way that engenders the trust and confidence in the patient/client.
7. Demonstrate clinical reasoning/management.
8. Apply the skills and knowledge necessary to employ an evidenced based approach to decision making in healthcare practice.
9. Engage in critical self reflection and evaluate the critique his or her role during the clinical period and integrate new experience and knowledge into their own practice.

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. 100% attendance requirement.
- Laboratory: There is a compulsory attendance requirement in this course. 100% attendance requirement.
- Lecture/Seminar: There is a compulsory attendance requirement in this course. 100% attendance requirement.

Course Assessment Requirements:

- Assessment 1 - Tutorial / Laboratory Exercises: Attempt / Submission Requirement - Students must attempt/submit this assessment item to pass the course. Students are required to attempt 100% laboratory preparation Quizzes. Students not attempting 100% of quizzes will be given a fail grade for this course.
- Assessment 2 - Tutorial / Laboratory Exercises: Attempt / Submission Requirement - Students must attempt/submit this assessment item to pass the course. Students are required to have 100 % Laboratory attendance.
- Assessment 3 - Practical Demonstration: Pass Requirement - Students must obtain a specified minimum grade/mark in this assessment item to pass the course. In order to pass the course a student must obtain a satisfactory assessment to pass the course. The competency evaluation and record is weighted as satisfactory/not satisfactory.

Pre-Placement Requirements:

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

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 Preparation Lectures*	Release of the Quiz and Lab prep video on Canvas will occur on the Friday prior to the scheduled Lab and must be completed prior to lab attendance	Individual	Formative	1, 2, 3, 8, 9
2	Professional Skills Simulation Labs*	Weeks 3, 5 and 8	Individual	30%	1, 2, 3, 8, 9
3	Clinical Placement Workbook + Reports & Practicum / Placement*	Friday 10 th November 2023	Individual	70%	1, 2, 3, 4, 5, 6, 7, 8

* 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 *It is a breach of Academic Integrity Policy to submit work or part thereof previously submitted for academic credit in this or any other course without permission from the course coordinator. This information is located in the policy [glossary](#), the [Academic Integrity Module](#) and/or details in HLSC1000 content on Academic Integrity for more information.*

Assessment 1 - Laboratory Preparation Lectures

Assessment Type	Tutorial / Laboratory Exercises
Description	Online Laboratory Preparation Workbook, Tasks and Pre-Reading to enhance the students experience. The Students are requested to access the Online Laboratory Preparation Lecture and Pre-Reading and Tasks which includes detailed technical information for the Laboratory Cases.
Weighting	This is a formative assessment and will not contribute to your final grade.
Compulsory Requirements	Attempt / Submission Requirement - Students must attempt/submit this assessment item to pass the course.
Due Date	Release of the Quiz on Canvas will occur on the Friday Prior to the scheduled Lab and must be completed prior to attendance
Submission Method	Online
Return Method	Not returned
Feedback Provided Opportunity to Reattempt	No feedback Students WILL be given the opportunity to reattempt this assessment. Opportunity for remediation may be permitted only if accompanied by the appropriate Adverse Circumstance documentation and if within policy guidelines

Assessment 2 - Professional Skills Simulation Labs

Assessment Type	Laboratory Exercises
Description	This assessment involves planning cases and associated tasks submitted through the semester. These are a compulsory course component. Students must attempt all assessment items and pass the assessments to pass the course. An unsatisfactory assessment item may affect student ability to attend the Professional Placement.
Weighting	30%
Compulsory Requirements	Pass Requirement - Students must pass this assessment item to pass the course.. Attempt / Submission Requirement - Students must attempt/submit this assessment item to pass the course.
Due Date	Weeks 3, 5 and 8
Submission Method	Online
Assessment Criteria	See assessment rubrics on Canvas
Return Method	Online
Feedback Provided	Online
Opportunity to Reattempt	Students WILL be given the opportunity to reattempt this assessment. Opportunity for remediation may be permitted only if accompanied by the appropriate Adverse Circumstance documentation and if within policy guidelines

Assessment 3 - Practicum / Placement

Assessment Type	Practical Demonstration
Description	<p>Professional Placement Workbook:</p> <p>2.1 Professional skill attainment: 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>2.2 Radiation Therapy Clinical Supervisors assessment: 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>2.3 Radiation Therapy Critical analysis and reflection on practice reports: 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>2.4 Professional Placement Hours or Shifts: 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</p>

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.

**Weighting
Compulsory
Requirements**

70%
Minimum Grade / Mark Requirement - Students must obtain a specified minimum grade / mark in this assessment item to pass the course.
Pass Requirement - Students must pass this assessment item to pass the course.
In order to pass the course, a students must obtain the following grades in the Final Outline 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

Due Date

Friday 10th November 2023

Submission Method

Online

Assessment Criteria

See Placement Workbook for Critical analysis and NRI rubrics and Supervisors Report

Return Method

Online

Feedback Provided

Online and face to face

**Opportunity to
Reattempt**

Students WILL NOT be given the opportunity to reattempt this assessment. Cannot re-attempt clinical placement Students failing to attend Professional Placement will fail the course.

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 Canvas 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.

Placement Requirements	This is a placement course covered by the Student Placement Policy. Refer to http://newcastle.edu.au/policy/000768.html for further information.
Attendance	Attendance/participation will be recorded in the following components: <ul style="list-style-type: none"> - Laboratory (Method of recording: attendance taken in class) - Clinical (Method of recording: Attendance logged by Clinical supervisor) - Lecture/Seminar (Method of recording: completion of quiz/taken in class)
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	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Academic Misconduct has the potential for serious consequences, including failing the course, or being suspended or excluded from the University.</p>
Adverse Circumstances	<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"> 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. <p>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</p>
Important Policy Information	<p>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.</p>

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.