

MASTER OF ADVANCED IMAGING (MRI) (4767)

Approved Abbreviation: MADvImaging (MRI)
Western Sydney University Program Code: 4767
AQF Level: 9

Program Status:

This program applies to students who commenced in 2020 or later.

The Master of Advanced Imaging MRI, is available for students who would like to further their knowledge and skills in clinical Magnetic Resonance Imaging (MRI). This program is offered part-time and is structured to cater for eligible Graduate Medical Practitioners, Medical Radiation Practitioners (MRP) and Allied Health and other Health Professionals including Dentists and Veterinary practitioners. The Master program provides in depth learning in MRI including basic physics as well as advanced clinical imaging techniques. Students will learn the skills to conduct an independent research project in MRI to address theoretical and/or practical issues and problems in relation to Advanced Imaging / MRI.

There will be face-to-face or video-conferencing intensive workshops and interactions with specialists from different medical disciplines.

The program provides two weeks clinical training in a WSU endorsed MRI clinical site for each of the clinical units offered (ie: a total of ten weeks).

The program offers students the option to conduct either pure medical MRI research to be eligible for registration as Medical Diagnostic Magnetic Resonance Imaging Scientists with the Australian Magnetic Resonance Imaging Association, or a workplace-based MRI research focus during their final year while attending 14-week clinical placement, required to be eligible for registration as Medical MRI Practitioners with the Australian Magnetic Resonance Imaging Association.

Early Exits

Students may exit this program on completion of 40 credit points with a 4769 Graduate Certificate in Advanced Imaging (MRI) (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/graduate-certificate-advanced-imaging-mri/>) or on completion of 80 credit points with a 4768 Graduate Diploma in Advanced Imaging (MRI) (exit only) (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/graduate-diploma-advanced-imaging-mri/>)

Study Mode

3 years part-time

Program Advice

James Nol (<https://directory.westernsydney.edu.au/search/name/James%20Nol/>)

Prospective students should visit the following websites for general enquiries about this program.

Enquire about this program (<https://enquiry.westernsydney.edu.au/courseenquiry/>) | Local Admission (<https://www.westernsydney.edu.au/future/>) | International Admission (<https://www.westernsydney.edu.au/international/home/apply/admissions/>) |

Location

Campus	Attendance	Mode	Advice
Online	Part Time	Online	See above

Inherent Requirements

Inherent requirements for this program will be similar to the inherent requirements applicable to the Doctor of Medicine program 4758.

Inherent Requirements (https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_medicine_courses/)

Work Integrated Learning

Western Sydney University seeks to enhance student learning experiences by enabling students to engage in the culture, expectations and practices of their profession or discipline. This program includes a placement or other community-based unpaid practical experience.

There is a mandatory work component required for completion of this program. Please contact the Program Advisor listed above for information.

International students should also refer to the link below for more information and a link to the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS).

Work Integrated Learning (WIL) for international students (https://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/international_student_support/working_in_australia/work_integrated_learning/)

Clinical practice is essential to complement program objectives. It is expected that students will use workplace hours to meet the clinical practice requirements. However, if students do not currently work in the field, or are unable to organise their own clinical placement at an authorised accredited site, an optional work-based practical training unit located at Blacktown-Mount Druitt Hospital or other approved location has been developed.

Supervision requirements are by placement agreement, covering contact and learning requirements, including assessment. The Teaching team will check in with students during the course of their practicum.

Admission

Applicants must be a Registered medical practitioner, registered dentist, (with AHPRA) or Vet registered with the Veterinary Practitioners Registration Board of NSW or equivalent;

or Registered Medical Radiation Practitioner (with AHPRA):

or must have completed an Undergraduate degree in medical science, engineering, or other health practitioner degrees.

This program requires students to have a strong academic background in maths and physics. Applicants may be requested to demonstrate their competency if this is not evident within their undergraduate studies.

Candidates may exit the program at the Graduate certificate level (40 Credit Points)

Candidates may exit the program at the Graduate Diploma level (80 Credit Points).

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC)

will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

<http://www.uac.edu.au/>
<https://westernsydney.uac.edu.au/ws/>

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and Western Sydney University.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

Statement of Service form (https://www.westernsydney.edu.au/content/dam/digital/pdf/Statement_of_Service.PDF)

Qualification for this award requires the successful completion of 120 credit points as per the recommended sequence below.

Recommended Sequence 2023

Master of Advanced Imaging (MRI)

Course	Title	Credit Points
Year 1		
Autumn session		
MEDI 7058	Multi-sectional and 3D Human Anatomy	10
MEDI 7059	Radiobiology	10
Credit Points		20
Spring session		
MEDI 7051	Evidence Based Imaging and Clinical Pathways	10
MEDI 7057	MRI Physics	10
Students may exit at this point with a Graduate Certificate in Advanced Imaging (MRI)		
Credit Points		20
Year 2		
Autumn session		
MEDI 7049	Advanced MR Theory	10
MEDI 7055	MR Neurology - Head, Neck and Spinal Imaging	10
Credit Points		20
Spring session		
MEDI 7054	MR Musculoskeletal Imaging (MSK)	10
MEDI 7053	MR Body and Pelvis Imaging	10
Students may exit at this point with a Graduate Diploma in Advanced Imaging (MRI)		
Credit Points		20
Year 3		
Autumn session		
MEDI 7056	MR Screening	10
MEDI 7052	MR Angiography and Cardiac	10
Credit Points		20
Spring session		
MEDI 7048	Advanced Imaging Research Project	20
Credit Points		20
Total Credit Points		120

Qualification for this award requires the successful completion of 120 credit points as per the recommended sequence below.

In Year 3 there are 2 stream Options. Clinical Stream and Research Stream. Please select based in consultation with your Program coordinator.

Recommended Sequence 2024

Master of Advanced Imaging (MRI) Clinical Stream

Course	Title	Credit Points
Year 1		
Autumn session		
MEDI 7058	Multi-sectional and 3D Human Anatomy	10
MEDI 7059	Radiobiology	10
Credit Points		20
Spring session		
MEDI 7051	Evidence Based Imaging and Clinical Pathways	10
MEDI 7057	MRI Physics	10
Students may exit at this point with a Graduate Certificate in Advanced Imaging (MRI)		
Credit Points		20
Year 2		
Autumn session		
MEDI 7049	Advanced MR Theory	10
MEDI 7055	MR Neurology - Head, Neck and Spinal Imaging	10
Credit Points		20
Spring session		
MEDI 7054	MR Musculoskeletal Imaging (MSK)	10
MEDI 7053	MR Body and Pelvis Imaging	10
Students may exit at this point with a Graduate Diploma in Advanced Imaging (MRI)		
Credit Points		20
Year 3		
1H session		
MEDI 7075	Advanced Imaging Clinical Practice and Research	10
This is a 20 credit point year-long subject taken over two sessions (10 credit points in each session).		
Please note: students must enrol in MEDI 7075 in both 1H and 2H sessions in order to receive final grades and credit points.		
Credit Points		10
Autumn session		
MEDI 7056	MR Screening	10
Credit Points		10
2H session		
MEDI 7075	Advanced Imaging Clinical Practice and Research	10
This is a 20 credit point year-long subject taken over two sessions (10 credit points in each session).		
Please note: students must enrol in MEDI 7075 in both 1H and 2H sessions in order to receive final grades and credit points.		
Credit Points		10

Spring session

MEDI 7052	MR Angiography and Cardiac	10
Credit Points		10
Total Credit Points		120

Master of Advanced Imaging (MRI) Research Stream

Course	Title	Credit Points
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Year 1**Autumn session**

MEDI 7058	Multi-sectional and 3D Human Anatomy	10
MEDI 7059	Radiobiology	10
Credit Points		20

Spring session

MEDI 7051	Evidence Based Imaging and Clinical Pathways	10
MEDI 7057	MRI Physics	10

Students may exit at this point with a Graduate Certificate in Advanced Imaging (MRI)

Credit Points **20**

Year 2**Autumn session**

MEDI 7049	Advanced MR Theory	10
MEDI 7055	MR Neurology - Head, Neck and Spinal Imaging	10
Credit Points		20

Spring session

MEDI 7054	MR Musculoskeletal Imaging (MSK)	10
MEDI 7053	MR Body and Pelvis Imaging	10

Students may exit at this point with a Graduate Diploma in Advanced Imaging (MRI)

Credit Points **20**

Year 3**Autumn session**

MEDI 7056	MR Screening	10
MEDI 7052	MR Angiography and Cardiac	10
Credit Points		20

Spring session

MEDI 7066	Medical Research Project (PG)	20
Credit Points		20

Total Credit Points **120**

Equivalent Core subjects

The core subject listed below count towards completion of this program for students who passed this subject in 2023 or earlier.

MEDI 7048 - Advanced Imaging Research Project, replaced by
MEDI 7075 Advanced Imaging Clinical Practice and Research

MEDI 7075 Advanced Imaging Clinical Practice and Research is a 20 credit point year-long subject taken over two sessions (10 credit points in each session).