

RADI 7024 APPLIED VASCULAR SONOGRAPHY

Credit Points 10

Coordinator Donna Oomens ([https://directory.westernsydney.edu.au/search/name/Donna Oomens/](https://directory.westernsydney.edu.au/search/name/Donna%20Oomens/))

Description This subject aims to provide students with adequate knowledge and skills to practice competently and safely as vascular sonographers. Students will learn about more specialised diseases and how to detect them using ultrasound and other imaging modalities. Students will start contributing to a wider sonographic practice by conducting a case project and presenting the report to the professional audience. The university library's vast teaching and research resources will provide an important means for facilitating learning in this subject.

School Medicine

Discipline Radiography

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Postgraduate Coursework Level 7 subject

Pre-requisite(s) RADI 7013 - Practice of Vascular Sonography 3

Co-requisite(s) RADI 7014 - Practice of Vascular Sonography 4

Restrictions

Students must be enrolled in 4765 Graduate Diploma in Vascular Sonography.

Learning Outcomes

After successful completion of this subject, students will be able to:

1. Differentiate the unique characteristics of arterio-venous fistulae/grafts to ensure accurate assessment
2. Appraise the principles of transplant and endovascular surgery to understand the role sonographers play pre- and post-procedure
3. Critique new and emerging technologies and their application in vascular sonography practice to ensure that currency of knowledge is maintained
4. Reflect on personal sonography practice to plan for further professional development
5. Collaborate with vascular sonographers and other health professionals to enhance practice and development.

Subject Content

The subject has two modules:

Module 1: Discipline specific practice

1. Principles of access, pathophysiology & treatment
2. Imaging of dialysis access
3. Complimentary Imaging/CT for sonographers
4. Paediatric vascular imaging
5. CEUS
6. Vascular trauma imaging
7. Renal transplant imaging.
8. Guiding for Endovenous procedures.

Module 2: Professional Essentials

9. CPR for sonographers
10. AI in sonography
11. Exploring opportunities for engagement
12. Professional transition

Special Requirements

Legislative pre-requisites

Legislative requirements (such as a criminal record check) are not deemed necessary for students in the vascular ultrasonography course. For students who complete their clinical training in a NSW public hospital, the necessary legislative requirements will be part of their employment conditions. Clinical training for many of the students will be in a private setting, where the necessary requirements (which are likely to differ from public institutions) will be addressed as needed. Training for some students will occur in states other than NSW (where legislative requirements can be competed if, and when required). New Zealand students will need to have completed a MRTB approved Māori Competency unit.

Special Requirements - NSW Health Legislative Prerequisites Pre-requisites

Student Compliance Information for all Health-Related Placements

Prior to enrolling in this subject, students must have submitted a Student Undertaking Form and undertake to apply for a National Police Check, which is required to be submitted before placement, and a Working with Children Check Student Declaration. Use the link to the Special Requirements webpage below for more information.

To be eligible to enrol in this subject and complete any required health-related placements or experiences, students must meet Western Sydney University program requirements as well as any special, legislated, or policy-mandated requirements.

Western Program Requirements

Visit the Special Requirements webpage for details about your program.

Special Requirements (https://www.westernsydney.edu.au/currentstudents/current_students/enrolment/special_requirements/)

Mandatory NSW Health student placement policy requirements

To be able to undertake placement in any NSW Health facility you must be assessed as compliant with NSW Health student placement policy in the first year of your program, regardless of when you expect to go on your first placement. Access and read the NSW Student Compliance Information Booklet.

NSW Student Compliance Information Booklet (https://www.westernsydney.edu.au/placements_hub/placements_hub/student_compliance/)

Please ensure that you

1. Find your existing National Police Check or apply for one
2. Gather documentary evidence of your vaccination history
3. Print and complete all relevant NSW Health forms relevant to the campus you are enrolled at or online enrolment requirements
4. Follow booklet instructions on how to have your compliance documents assessed by NSW health staff.

International students have additional requirements; the link to the booklet will inform you of these requirements.

School Requirements

Contact your School for further details regarding your School's requirements, if any, such as

- If you live outside of NSW or Australia and need to meet your state, territory or country's compliance requirements
- If you need to meet different state, territory or country compliance requirements.
- NSW Working with Children Check (WWCC) or other state equivalent, valid for your entire program.
- Current approved first aid certificate valid for your entire program
- approved program providers can be found at the Government Training website
- <http://training.gov.au> (<http://training.gov.au/>)
- Other non-health related requirements.

Student Compliance Resources are also available on the Placements Hub web page (NSW students only)

https://www.westernsydney.edu.au/learning_futures/home/placements_hub/placements_hub/student_compliance (https://www.westernsydney.edu.au/learning_futures/home/placements_hub/placements_hub/student_compliance/)

Essential equipment

Students will need a computer and internet access to use the e-learning platform.

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Applied Project	15-minute interactive presentation	35	N	Group/ Individual	Y
Critical Review	1000 words	35	N	Individual	N
Quiz	60 minutes	30	N	Individual	N

Teaching Periods

Spring (2025)

Campbelltown

Hybrid

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=RADI7024_25-SPR_CA_3#subjects)