

RADI 7001 ADVANCED PRINCIPLES AND PRACTICE OF SONOGRAPHY

Credit Points 10

Legacy Code 401247

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

Description This subject is an essential part of the final year of the Master of Sonography. It ensures that students advance the knowledge and skills gained in prior subjects as they select and study a contemporary ultrasound technique or technology. In clinical practice, students evaluate their use of the chosen technique or technology, and compose a narrative literature review on the same topic. Additionally, students have the opportunity to teach imaging skills to first year student sonographers, and write a reflection about their teaching experience.

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 7005 - Practice of Cardiac Sonography 4 Or RADI 7014 - Practice of Vascular Sonography 4 Or RADI 7022 - Practice of Obstetric and Gynecological Sonography 4

Restrictions

Students must be enrolled in the Master of Cardiac Sonography.

Learning Outcomes

On successful completion of this subject, students should be able to:

1. Employ proficient research and writing skills to compose a narrative literature review about a contemporary ultrasound technique or technology
2. Appraise the clinical application of a contemporary ultrasound technique or technology
3. Reflect on key aspects of adept sonography practice via student sonographer teaching

Subject Content

Module 1. Contemporary Ultrasound Techniques and Technology

1. Subject Introduction. An overview of the subject structure and of the potential areas of (student selected ultrasound technique or technology) focus
2. Journals Forum. Discuss and review relevant grey literature, review articles and original research (related to the chosen area of focus)
3. Imaging Tutorial. Practical lessons on a) the clinical application, and b) the research utility of the chosen contemporary ultrasound technique or technology
4. Writing Tutorials. Two meetings on the essential aspects of writing and editing a narrative literature review

Module 2. Teaching Practice and Reflection

1. Teaching Preparation. A tutorial on preparing a teaching plan (aims, outcomes, timetable) and conducting practical teaching activities
2. Teaching Practice. Practical imaging instruction to first year cardiac sonography students

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
Report	2000 words (excluding references)	50	Y	Individual	Y
Report	1000 words (excluding images and legends)	30	N	Individual	Y
Reflection	800 words total	20	N	Individual	Y
Proposal	300 words	S/U	Y	Individual	Y

Teaching Periods

Autumn (2025)

Campbelltown

Hybrid

Subject Contact Paul Stoodley ([https://directory.westernsydney.edu.au/search/name/Paul Stoodley/](https://directory.westernsydney.edu.au/search/name/Paul%20Stoodley/))

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=RADI7001_25-AUT_CA_3#subjects)