

# RADI 7001 ADVANCED PRINCIPLES AND PRACTICE OF CARDIAC 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/](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. Evaluate relevant research and compose a literature review utilizing advanced research and academic writing skills
2. Appraise the clinical application of a contemporary cardiac ultrasound technology
3. Reflect on the aspects of adept cardiac sonography practice through teaching student sonographers

## Subject Content

Module 1. Contemporary Cardiac Ultrasound Technology

- subject introduction: An Overview of potential research Topics and subject structure

- Journals forum: meetings weeks 2, 3 and 4 to discuss and review relevant grey literature, review articles and original research

- Imaging tutorial: practical lessons on i) the clinical application, and ii) the research utility of the chosen contemporary ultrasound technology (week 7)

- Writing tutorials: meetings weeks 7, 9 and 10 on the essential aspects of writing and editing a literature review

Module 2. Teaching Experience

- Teaching preparation: a tutorial on preparing a teaching plan (aims, outcomes, timetable) and the structure of the teaching sessions (week 4)

- Teaching sessions: two teaching sessions to first year cardiac sonography students (in weeks 5 and 13)

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