

# RADI 7009 PRINCIPLES OF CARDIAC SONOGRAPHY 4

**Credit Points** 10

**Legacy Code** 401188

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

**Description** In Spring 2025, this subject will be replaced by RADI - 7025 - Applied Cardiac Sonography. This subject aims to assure that students have gained adequate knowledge and skills to be able to practice competently and confidently as cardiac sonographers. Students will learn about more complex heart dis-ease and how to detect them by echocardiography and other imaging modalities. They will further devel-op their research skills and start contributing to the sonographic practice through conducting a case pro-ject and presenting the report to the professional audience. The university library's vast teaching and re-search 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/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Postgraduate Coursework Level 7 subject

**Pre-requisite(s)** RADI 7008

## Learning Outcomes

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

1. Explain the pathophysiology of ischemic heart disease and it's detection by echocardiography
2. Identify the causes and sonographic appearance of infective endocarditis and aortic diseases
3. Verify the indications and sonographic appearance of prosthetic heart valves
4. Create a research report on an advanced echocardiographic technique
5. Compare and contrast echocardiography and another cardiac imaging technique

## Subject Content

1. Cardiovascular pathophysiology
  - Ischaemic heart disease and echocardiography
  - Ischaemic heart disease and other imaging modalities
  - Prosthetic valves, cardiac interventions and surgery
2. Case study research skills
  - literature Review
  - data collection
  - statistical analysis of collected data
  - case report writing

## 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
Quiz	30 minutes	15	N	Individual	N
Report	1000 words	40	N	Individual	N
Case Study	1500 words	45	Y	Individual	Y

Teaching Periods

## Spring (2025)

### Campbelltown

#### On-site

**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=RADI7009\\_25-SPR\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=RADI7009_25-SPR_CA_1#subjects))