

# RADI 7003 PRACTICE OF CARDIAC SONOGRAPHY 2

Credit Points 10

Legacy Code 401190

Coordinator Paul Stoodley (<https://directory.westernsydney.edu.au/search/name/Paul Stoodley/>)

**Description** In this subject, students will develop their image acquisition, optimisation and measurement skills. They will learn to perform more extensive cardiac sonographic scan and will further develop their professional and ethical attributes. This subject, which includes a work-integrated learning component, will ensure the consolidation of foundational skills, knowledge and attributes.

**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 5001 - Physics for Diagnostic Ultrasound  
RADI 7002 - Practice of Sonography 1 (Cardiac)

**Co-requisite(s)** RADI 6001 - Pathophysiology in Diagnostic Ultrasound

## Restrictions

Students must be enrolled in 4743 - Graduate Diploma in Cardiac Sonography or 4751 - Master of Cardiac Sonography.

## Assumed Knowledge

Basic human anatomy and physiology.

## Learning Outcomes

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

1. Apply knowledge of imaging protocols to ensure quality sonographic practice
2. Appraise acquisition, optimisation and measurement techniques to achieve diagnostic sonographic images
3. Differentiate normal from abnormal cardiac ultrasound features to support clinical decisions
4. Investigate communication styles to ensure best patient care and optimal professional relationships
5. Evaluate clinical experiences to enhance reflective practice skills.

## Subject Content

### Module 1: Sonographic Practice 2

- I. (Cardiac) Image acquisition and measurements 3
- II. (Cardiac) Image acquisition and measurements 4

### Module 2: Professional & Ethical Practice 2

- I. Professional Communication
- II. Ethical practice
- III. Work health safety & ergonomics
- IV. Professional development

### Module 3: Speciality Imaging Skills II

- I. Measuring LV systolic function 1

- II. Measuring LV diastolic function 1
- III. Evaluating Valve Function 1
- IV. Evaluating Cardiomyopathies 1
- V. Evaluating Cardiomyopathies 2

## Work integrated learning

Each student will have an accredited cardiac sonographer as a clinical supervisor at their training site. The clinical supervisor will be provided with numerous means of support by WSU, including:

- An email at the commencement of the program from the program coordinator to verify support for the student and to ensure the supervisor that they can contact the coordinator at any time.
- Information about subject content each semester via email: 1. Learning Objectives - sent at the start of the semester, and 2. Practical assessment details - sent at the mid-point of the semester.
- A Zoom meeting in week 3 of the first semester where clinical supervisor recommendations are given (along with the opportunity for Q and A).

## Special Requirements

### Legislative pre-requisites

Legislative requirements (such as a criminal record check) are not deemed necessary for students in the 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 locations other than NSW (where legislative requirements can be competed if, and when required).

### 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/](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/](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) ([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
Case Study 2 Cardiac sonography cases with questions and answers	25	N		Individual	N
Quiz	90 minutes	25	N	Individual	N
Practical Exam	2 hours	50	Y	Individual	Y
Portfolio	300 entries S/U including reflective learning activities	Y		Individual	Y

Teaching Periods

## Spring (2025)

### Campbelltown

#### On-site

Subject Contact Paul Stoodley (<https://directory.westernsydney.edu.au/search/name/Paul Stoodley/>)

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=RADI7003\\_25-SPR\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=RADI7003_25-SPR_CA_1#subjects))