



# Study Medical Sonography at ECU

**Medical Sonographers are in high demand. Ultrasound has become the first line of investigation in a wide range of medical care situations. The use of sound waves instead of radiation or magnetic resonance, enables a less invasive investigation, and advances in technology and practice have seen sonography become increasingly relied on in many areas of medicine.**

ECU's Medical Sonography program provides the core knowledge and skills you'll need to work in this important field.

## What is sonography?

A sonographer is a highly skilled medical imaging professional who operates an ultrasound machine to perform diagnostic medical sonographic examinations.

Sonography can be used to examine many different parts of the body to help diagnose a range of medical conditions. Qualified sonographers can specialise in different areas, including:

- **Obstetrics/Gynaecology** – Assessment of pregnancy and the female reproductive system
- **Musculoskeletal** - Assessment of joints, muscles, tendons, ligaments and bones
- **Vascular** – Assessment of blood flow, particularly peripheral and abdominal blood vessels
- **Paediatrics** - Assessment of diseases of childhood and adolescence

## How do you become a sonographer?

To become an accredited Medical Sonographer, you must complete a degree that is recognised by the Australian Sonographer Accreditation Registry (ASAR). ECU has obtained accreditation from ASAR for the Bachelor of Preclinical Foundations of Imaging Science and the Graduate Diploma in Medical Sonography courses, which, together, make up four years of study and include two consecutive years of clinical placements (minimum 3 days a week).



## Bachelor of Preclinical Foundations of Imaging Science

**Indicative ATAR:** 80

**Duration:** 3 years full-time or part-time equivalent

Availability:	JO	ML	SW	OL
Full-time	■			
Part-time	■			

In this course, you'll acquire knowledge and skills of: applied anatomy, physiology and pathophysiology; safe application and operation of ultrasound imaging systems; ultrasound image recognition; and comprehension and patient care. In addition you will complete 48 weeks of clinical placement in a sonography setting at a minimum of 3 days a week in the final year of the degree.

This course prepares you for completion of the Graduate Diploma in Medical Sonography, which you must enrol in at ECU. Only upon the completion of the Graduate Diploma in Medical Sonography will you be eligible to be accredited by the Australian Sonographer Accreditation Registry and practice as an Entry Level Sonographer.

### Course Structure

Year 1	Semester 1
MHS1101	Anatomy and Physiology 1
SON1101	Sectional Anatomy and Comparative Imaging 1
SON1102	Introduction to Diagnostic Medical Ultrasound
HST2124	Health Communication
Year 1	Semester 2
MHS1102	Anatomy and Physiology 2
SON1201	Sectional Anatomy and Comparative Imaging 2
SCP1134	Foundations of Physics
SCH1104	Introduction to Pathophysiology
Year 2	Semester 1
SCH3434	Human Reproduction, Development and Ageing
SON2101	Ultrasound Physics and Instruments
SON2102	Ultrasound Superficial Structures and Small Parts
SON2103	Renal and Pelvic Ultrasound
Year 2	Semester 2
SON2201	Upper Abdominal Ultrasound
SON2202	Gynaecology and First Trimester Ultrasound
IAS3100	Indigenous Health

Year 3	Semester 1
SON3101	Vascular Doppler Ultrasound
SON3102	Ultrasound of the Musculoskeletal System
SON3103	Introductory Sonography Clinical Placement (January to July)

Year 3	Semester 2
SON3201	Second and Third Trimester Obstetric Ultrasound
MMS3112	Safety and Quality in Healthcare
SON3202	Intermediate Sonography Clinical Placement (July to November)

→ See more course information — [ecu.edu.au/courses/T78](http://ecu.edu.au/courses/T78)

## Graduate Diploma in Medical Sonography

### Admission Requirements

All applicants are required to have completed a Bachelor of Preclinical Foundations of Imaging Science at ECU, including 48 weeks of clinical placement in a sonography setting, and graduated with a weighted average mark (WAM) of 70 (with equivalents considered).

**Duration:** 1 year full-time

Availability:	JO	ML	SW	OL
Full-time	■			

The demand for ultrasound as a first-line investigation has increased across all care settings, creating a shortage of sonographers in Australia.

In this course, you will complete the remaining 48 weeks of sonography clinical placement (minimum 3 days per week from January to November) to fulfill the criteria for the ASAR accreditation.

Upon successful completion of all units of this course, you will graduate from ECU with a Graduate Diploma in Medical Sonography and fulfill the requirements for accreditation with ASAR as an Accredited Medical Sonographer (AMS).

### Course Structure

NRB5112	Translational Science
SON5101	Sonography Competency Clinical Placement 1 (January to July)
SON5201	Sonography Competency Clinical Placement 2 (July to November)
MMP6102	Medical Science Master's Project

→ See more course information — [ecu.edu.au/courses/T77](http://ecu.edu.au/courses/T77)

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For more information visit —

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