

INTRODUCTION

This document has been developed to assist domestic Year 12 students and their families in researching selected Medical Radiation Science and Medical Ultrasound courses in Victoria, Canberra and parts of NSW.



Indicative ATAR

The indicative ATAR is the lowest selection rank for the 2022 January intake. This is the ATAR rank inclusive of all ATAR adjustments such as equity and academic bonus points. The lowest raw ATAR taken into the course is lower than the lowest selection rank.



Undergraduate

This is usually your first course at university. For example - bachelor's degree.



English prerequisite

EAL = English as an Additional
Language. 'Any other English' includes
English, English Language and
Literature.



Graduate

This is study you do once you have graduated from a bachelor's degree. For example – Graduate Diploma

Disclaimer

Universities featured in this guide reserve the right to change course information, admissions and entry requirements at any time and without notice.

For up-to-date information, check the university websites when assessing course information.

Written by Sandie McKoy, February 2022 Catholic College Wodonga, sandie.mckoy@ccw.vic.edu.au

Note: Monash University has requested to not be included in this brochure



COURSE SUMMARY

NUCLEAR MEDICINE

University	Course	Campus	Indicative ATAR
RMIT University	Bachelor of Applied Science (Medical Radiations) (Nuclear Medicine)	Bundoora	80.65
Charles Sturt University	Bachelor of Medical Radiation Science (Nuclear Medicine and Molecular Imaging)	Wagga Wagga Port Macquarie	65.0 65.0
University of Newcastle	Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)	Newcastle – Callaghan	75.0

RADIATION THERAPY

University	Course	Campus	Indicative ATAR
RMIT University	Bachelor of Applied Science (Medical Radiations) (Radiation Therapy)	Bundoora	77.55
Charles Sturt University	Bachelor of Medical Radiation Science (Radiation Therapy)	Wagga Wagga	65.0
University of Newcastle	Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)	Newcastle - Callaghan	75.0

DIAGNOSTIC RADIOGRAPHY

University	Course	Campus	Indicative ATAR
RMIT University	Bachelor of Applied Science (Medical Radiations) (Medical Imaging - Radiography)	Bundoora	90.30
Deakin University	Bachelor of Medical Imaging	Geelong Waurn Ponds	91.40
	Bachelor of Medical Imaging (Regional & Remote)	Geelong Waurn Ponds	86.10
Charles Sturt University	Bachelor of Medical Radiation Science	Wagga Wagga	65.0
	(Diagnostic Radiography)	Port Macquarie	65.0
University of Newcastle	Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)	Newcastle – Callaghan	95.0
University of Canberra	Bachelor of Medical Radiation Science (Medical Imaging)	Canberra - Bruce	87.00

MEDICAL ULTRASOUND

University	Course	Campus	Indicative ATAR
CQ University	Bachelor of Medical Sonography / Graduate Diploma of Medical Sonography	Melbourne	91.85
University of Canberra	Graduate Diploma of Medical Ultrasound	Canberra - Bruce	Graduate entry
Charles Sturt University	Graduate Diploma of Medical Ultrasound	Online	Graduate entry

NUCLEAR MEDICINE



RMIT UNIVERSITY

www.rmit.edu.au

Bachelor of Applied Science (Medical Radiations) (Nuclear Medicine)

RMIT is the only Victorian university offering a multidisciplinary approach to medical radiations, with the option to study all medical radiations disciplines at degree level.

Medical radiations is a rapidly advancing healthcare discipline involving the application of ionising and non-ionising radiation for the diagnosis and treatment of injury and disease.

Nuclear medicine uses very small amounts of radioactive materials (radiopharmaceuticals) to diagnose changes in the body and treat disease.

Radiopharmaceuticals are detected using special cameras (gamma camera technology and positron emission tomography) that work with computers to provide images. During treatment, the radiopharmaceuticals go directly to the organ being treated.

Nuclear medicine technologists work closely with patients and other health professionals in the treatment of disease. They carry out tests, which may include cardiac stress tests to analyse heart function, bone scans for orthopaedic injuries and lung scans for blood clots.

Clinical practice

Clinical practice is a major focus of this degree. You'll undertake work placement in each year of the degree, spending a total of 49 weeks over the 3.5 years.

in supervised clinical practice, making you work-ready upon graduation.

You'll gain experience in a range of clinical settings including large public teaching hospitals, small private practices, as well as metropolitan and rural centres. You'll study in facilities with the latest medical radiations and IT equipment.

Professional accreditation

RMIT is currently seeking course accreditation with the Medical Radiation Practice Board of Australia.

Early entry program

Schools Network Access Program (SNAP). This program is only available to selected schools, https://bit.ly/2QULUkP

Course	Prerequisites	Campus	Indicative ATAR
Bachelor of Applied Science (Medical	Minimum study scores of: 30 in English (EAL) or 25 in any other	Bundoora	80.65
Radiations) (Nuclear Medicine)	English; 20 in either Mathematical Methods or Specialist		
	Mathematics; and satisfactory completion of Units 1+2 or Units		
	3+4 Chemistry or Biology.		

CHARLES STURT UNIVERSITY

www.csu.edu.au

Bachelor of Medical Radiation Science (Nuclear Medicine and Molecular Imaging)

A career in nuclear medicine and molecular imaging is a fascinating intersection of radiation physics, radiopharmaceutical sciences, radiochemistry, human biology, pathophysiology, biomedical engineering, computer science, data analytics (radiomics and artificial intelligence), communication and patient care and hightech life-saving healthcare.

Equipment used by medical radiation scientists has become increasingly sophisticated over the past decade and a detailed knowledge of equipment function, operation and computer interfacing is required.

The training undertaken in this course involves biological tracers (radiopharmaceuticals) used for the diagnosis and treatment of various diseases

This specialisation details the administration and imaging of these radiopharmaceuticals within the patient to detect physiological abnormalities and deliver appropriate treatment.

This specialisation requires formal training and education in clinical, instrumentation and computing aspects of single photon emission computed tomography (SPECT), PET, CT, MRI, ultrasound and newer hybrid systems (SPECT/CT and PET/CT).

Clinical experience

58 weeks of practical experience in clinical departments in country and metropolitan areas, including a fourth-year residency.

Professional accreditation

Graduates will be eligible to register to practice in Australia with the Australian Health Practitioner Registration Agency.

Admission programs

Includes information on early entry programs and pathway courses, https://bit.ly/2UoUIAb

UTAS partnership

Partnership program between the University of Tasmania and Charles Sturt, https://bit.ly/2AOPq3w

Course	Assumed knowledge	Campus	Indicative ATAR
Bachelor of Medical Radiation Science	Mathematics (any) and Physics.	Wagga Wagga	65.0
(Nuclear Medicine and Molecular Imaging)		Port Macquarie	65.0

UNIVERSITY OF NEWCASTLE

www.newcastle.edu.au

Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)

Nuclear medicine students learn how to conduct nuclear medicine scans of a person's body using radioactive material called radioisotopes.

Radioisotopes are typically ingested or injected, travelling through the affected area to create images of the inside of your body. These images can diagnose lifethreatening diseases such as cancer and help monitor a patient's health.

You will be taught by the best and brightest minds in their fields and get to celebrate, and possibly participate, in ground breaking research discoveries that define your practice.

You will hone your skills in our \$1.5 million on-campus radiopharmacy laboratory – the largest of its kind in the southern hemisphere.

Clinical experience

You will complete 42 weeks of clinical placements in public and private centres, preparing you for a successful career in nuclear medicine.

Professional Accreditation

Tick the boxes for professional registration with the Australian Health Practitioner Regulation Agency.

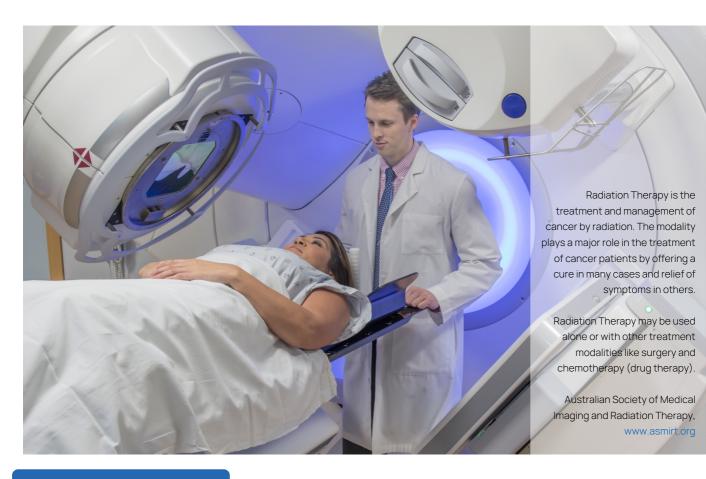
Other

Special selection procedures apply for Aboriginal and Torres Strait Islander applicants. For details call (02) 4921 6863



Course	Assumed knowledge	Campus	Indicative ATAR
Bachelor of Medical Radiation Science (Honours)	Advanced Mathematics or Physics	Newcastle - Callaghan	75.0
(Nuclear Medicine)			

RADIATION THERAPY



RMIT UNIVERSITY

www.rmit.edu.au

Bachelor of Applied Science (Medical Radiations) (Radiation Therapy)

RMIT is the only Victorian university offering a multidisciplinary approach to medical radiations, with the option to study all medical radiations disciplines at degree level.

Medical radiations is a rapidly advancing healthcare discipline involving the application of ionising and non-ionising radiation for the diagnosis and treatment of injury and disease.

Radiation therapy is one of the main treatment options for patients diagnosed with cancer.

Radiation therapists work closely with doctors to design, plan and administer radiation treatment for cancer patients.

They use highly sophisticated equipment to work out the dose required for each patient and then deliver the treatment to their patients.

Clinical practice

Clinical practice is a major focus of this degree. You'll undertake work placement in each year of the degree, spending a total of 49 weeks over the 3.5 years.

You'll gain experience in a range of clinical settings including large public teaching hospitals, small private practices, as well as metropolitan and rural centres.

You'll study in facilities with the latest medical radiations and IT equipment.

This includes a VERT - Virtual Environment of Radiation Treatment Room. Through captivating 3D views and life-size visualisations, VERT offers radiation therapy students a unique platform in which to learn.

Professional accreditation

RMIT is currently seeking course accreditation with the Medical Radiation Practice Board of Australia

Early entry program

Schools Network Access Program (SNAP). This program is only available to selected schools, https://bit.ly/2QULUkP

Course	Prerequisites	Campus	Indicative ATAR
Bachelor of Applied Science (Medical	Minimum study scores of: 30 in English (EAL) or 25 in	Bundoora	77.55
Radiations) (Radiation Therapy)	any other English; 20 in either Mathematical Methods		
	or Specialist Mathematics; and satisfactory completion		
	of Units 1+2 or Units 3+4 Chemistry or Biology.		

CHARLES STURT UNIVERSITY

www.csu.edu.au

Bachelor of Medical Radiation Science (Radiation Therapy)

Explore a career as a radiation therapist in public hospitals or private radiation oncology practices in any state of Australia, as well as overseas.

With an emphasis on the techniques and equipment used in diagnostic radiography, nuclear medicine and radiation therapy including general radiography, screening, computed tomography (CT), magnetic resonance imaging (MRI), sonography, positron emission tomography (PET), this

degree will provide you with a rewarding and fulfilling career.

In this specialisation, you'll use advanced computer software to design treatments for cancer patients. Then you'll engage advanced technologies to implement treatment plans.

Branch out and specialise in areas such as tomotherapy and IMRT. Further study and training will prepare you for a career in ultrasound or MRI.

Clinical experience

58 weeks of practical experience in clinical departments in country and metropolitan areas, including a fourth-year residency.

Professional accreditation

Graduates will be eligible to register to practice in Australia with the Australian Health Practitioner Registration Agency.

Admission programs

Includes information on early entry programs and pathway courses, https://bit.ly/2UoUIAb

UTAS partnership

Partnership program between the University of Tasmania and Charles Sturt, https://bit.ly/2AOPg3w

Course	Assumed knowledge	Campus	Indicative ATAR
Bachelor of Medical Radiation Science	Mathematics (any) and Physics.	Wagga Wagga	65.0
(Radiation Therapy)			

UNIVERSITY OF NEWCASTLE

www.newcastle.edu.au

Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)

The radiation therapy degree at the University of Newcastle is Australia's leading study program in the discipline.

Our graduates are sought after worldwide, working to eradicate cancer using superb medical competence and the world's most advanced cancer treatment technology.

As a radiation therapist, you can make a real difference in the lives of cancer patients and their families.

Our 3D radiation therapy simulation lab is the first of its kind in Australia, featuring a virtual linear accelerator machine and radiation therapy planning room.

Our graduates get jobs

94% employed within four months of graduating.

Clinical experience

You will complete 42 weeks of clinical placements in public and private cancer care hospitals and facilities.

Professional Accreditation

Tick the boxes for professional registration with the Australian Health Practitioner Regulation Agency.

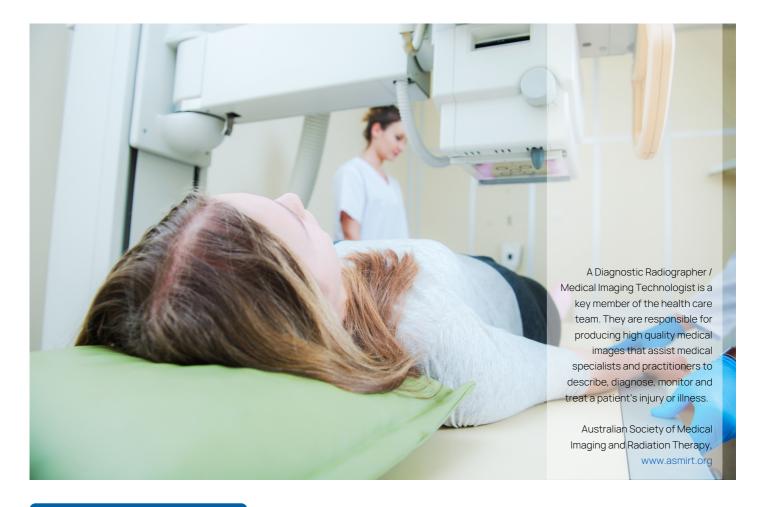
Other

Special selection procedures apply for Aboriginal and Torres Strait Islander applicants. For details call (02) 4921 6863



Course	Assumed knowledge	Campus	Indicative ATAR
Bachelor of Medical Radiation Science	Advanced Mathematics or Physics	Newcastle - Callaghan	75.0
(Honours) (Radiation Therapy)			

DIAGNOSTIC RADIOGRAPHY



RMIT UNIVERSITY

www.rmit.edu.au

Bachelor of Applied Science (Medical Radiations) (Medical Imaging -Radiography)

Medical radiations is a rapidly advancing healthcare discipline involving the application of ionising and non-ionising radiation for the diagnosis and treatment of injury and disease.

You will specialise in Medical Imaging (Radiography) and undertake both common and stream-specific subjects.

Through medical images such as x-rays, MRI and ultrasound, radiographers assist

in the diagnosis and care of patients. This course combines knowledge of physical and biomedical sciences with technical expertise and patient care.

Clinical practice

Clinical practice is a major focus of this degree. You'll undertake work placement in each year of the degree, spending a total of 49 weeks over the 3.5 years.

This clinical practice takes place in each year of the degree. You will gain experience in a range of clinical settings including large public teaching hospitals, small private practices, as well as metropolitan and rural centres.

Professional accreditation

RMIT is currently seeking course accreditation with the Medical Radiation Practice Board of Australia.

Early entry program

Schools Network Access Program (SNAP). This program is only available to selected schools, https://bit.ly/2QULUkP

Course

Bachelor of Applied Science (Medical Radiations) (Medical Imaging - Radiography)

Prerequisites

Completion of Units 1+2 or Units 3+4 Biology or Chemistry; and minimum study scores of: 30 in English (EAL) or 25 in any other English; and 20 in Mathematical Methods or Specialist Mathematics.

Campus	Indicative ATA
Bundoora	90.30

DEAKIN UNIVERSITY

www.deakin.edu.au

Bachelor of Medical Imaging

Gain the knowledge and clinical expertise to launch your career as a registered diagnostic radiographer.

Using the latest equipment, you will learn basic x-ray techniques before advancing to more complex medical imaging procedures such as general radiography, digital vascular imaging, mammography, computed tomography (CT), general ultrasound (U/S) and magnetic resonance imaging (MRI).

Clinical experience

Clinical placements will be a core part of your study and start in your first year. A clinical placement model has been designed specifically for the course in association with metropolitan, rural and regional hospitals, and medical imaging clinics throughout Australia.

You will gain valuable clinical practice in clinical centres and hospitals, as well as our state-of-the-art medical imaging training unit, giving you diverse experience and skills.

Professional accreditation

This course has been approved by the Medical Radiation Practice Board of Australia (MRPBA).

Facilities

Take advantage of Deakin's state-of-theart facilities. Our medical imaging practical labs replicate real-world medical imaging clinics – two of the main X-ray examination rooms even include ceiling and floormounted imaging systems.

The medical imaging labs are fully X-ray operational, so you will constantly be preparing yourself for your future with practical knowledge and skills

Rural entry

Eligible students from regional backgrounds can apply for the Bachelor of Medical Imaging (Regional Remote) degree, https://bit.ly/3cWnKzu

Course	Prerequisites	Campus	Indicative ATAR
Bachelor of Medical Imaging	Minimum study scores of: 30 in English (EAL) or 25 in any other English; 25 in one of Biology, Chemistry or Physics; and 22 in Mathematical Methods or Specialist Mathematics or 30 in Further Mathematics.	Geelong Waurn Ponds	91.40
Bachelor of Medical Imaging (Regional & Remote)	As above. Must meet school location eligibility requirements.	Geelong Waurn Ponds	86.10

CHARLES STURT UNIVERSITY

https://bit.ly/2G6pKZG

Bachelor of Medical Radiation Science (Diagnostic Radiography)

Become a diagnostic radiographer / medical imaging technologist and produce images of the structure of the body to assist medical diagnosis, guide treatment and help with medical decision-making.

You'll use a large range of imaging technologies including general X-rays, CT, angiography and mammography in various clinical settings.

With an emphasis on the techniques and equipment used in diagnostic radiography, nuclear medicine and radiation therapy including general radiography, screening,

computed tomography (CT), magnetic resonance imaging (MRI), sonography, positron emission tomography (PET), this degree will provide you with a rewarding and fulfilling career.

Clinical experience

58 weeks of practical experience in clinical departments in country and metropolitan areas, including a fourth-year residency.

Professional accreditation

The extent of clinical experience in the course means graduates are not required to complete the traditional professional development year and are eligible for national registration. Graduates will be eligible to register to practice in Australia with the Australian Health Practitioner Registration Agency.

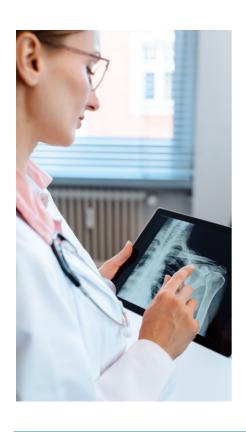
Admission programs

Includes information on early entry programs and pathway courses, https://bit.ly/2UoUIAb

UTAS partnership

Partnership program between the University of Tasmania and Charles Sturt, https://bit.ly/2AOPg3w

Course	Assumed knowledge	Campus	Indicative ATAR
Bachelor of Medical Radiation Science	Mathematics (any) and Physics.	Wagga Wagga	65.0
(Diagnostic Radiography)		Port Macquarie	65.0



UNIVERSITY OF NEWCASTLE

www.newcastle.edu.au

Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)

At the University of Newcastle, we prepare diagnostic radiography students for a dynamic career using advanced imaging technology.

Learn how to create medical images to diagnose and manage patient health, combining sophisticated technology and medical expertise to save and improve lives

Hone your skills using advanced multimodality imaging and post-processing facilities, including CT, MRI, ultrasound, angiography and mammography facilities.

Diagnostic radiography is an important first step to diagnosing, treating and managing injuries and disease. Along with pathology, diagnostic radiography is the largest diagnostic test performed.

The medical images you will learn to produce will allow patients to be diagnosed accurately, and can directly impact a patient's treatment plan and overall recovery.

Clinical experience

Complete up to 44 weeks of clinical placements in public and private centres, preparing you for a successful career in diagnostic radiography.

Professional Accreditation

Tick the boxes for professional registration with the Australian Health Practitioner Regulation Agency.

Course
Bachelor of Medical Radiation Science
(Honours) (Diagnostic Radiography)

Assumed knowledge Advanced Mathematics or Physics

Campus
Newcastle - Callaghan

Indicative ATAR

Callaghan 95.0

UNIVERSITY OF CANBERRA

www.canberra.edu.au

Bachelor of Medical Radiation Science (Medical Imaging)

Diagnostic radiography is a growing field with a unique opportunity to mix technology and patient care in your daily professional activities.

The Bachelor of Medical Radiation Science (Medical Imaging) is an accelerated fouryear degree, completed in 3.5 years.

The degree's accelerated learning program sees classes taught in the winter term and allows you to graduate midway through the year, coming onto the job market earlier than most similar university courses and giving you a definite competitive edge when it comes to future employment prospects.

Packed with Work Integrated Learning (WIL) opportunities, the course can include an embedded honours program, meaning you can choose to study the bachelor's degree on its own for four years or undertake a research project in your third and fourth year to graduate with Honours.

Professional accreditation

Upon graduation, you'll be able to apply for membership and a Statement of Compliance with the Australian Society of Medical Imaging and Radiation Therapy (ASMIRT) and can explore career opportunities in areas such as general radiography, angiography, mammography, computed tomography (CT), magnetic resonance imaging (MRI) and medical ultrasound.

Clinical experience

You'll undertake two five-week clinical placements during the second year of your studies, and the same in your third year, plus some longer residences too.

These will occur across a number of different local and/or national healthcare settings, including regional or rural, large teaching hospitals and private practice placements.

Early admissions program

Schools Recommendation Schemes, https://bit.ly/340ySLt

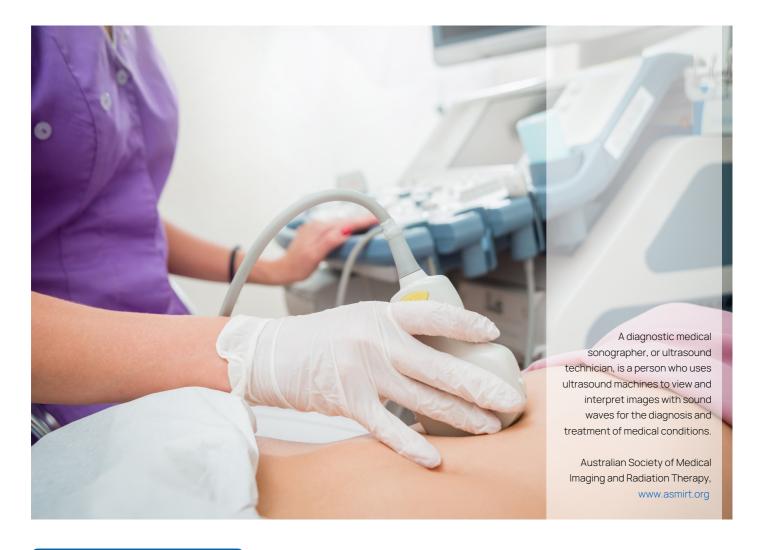
Oddioo	
Bachelor of Medical Rad	diation Science
(Medical Imaging)	

Course

Assumed knowledge
${\it Biology}, {\it Mathematics (any)}, {\it Physics. Other: may}$
be required to participate in an interview.

Campus	Indicative ATAF
Canberra	87.00

MEDICAL ULTRASOUND



CQUNIVERSITY

www.cqu.edu.au

Bachelor of Medical Sonography / Graduate Diploma of Medical Sonography

Medical Sonographers take diagnostic images using ultrasonic equipment to create still, video or 3D studies of anatomy and diagnostic data.

They scan, analyse and modify images to optimize the information and require highly developed patient care and communication skills.

Enhance your employability by studying the Bachelor of Medical Sonography and

Graduate Diploma of Medical Sonography – a course that is the first of its kind in Australia and allows you to enter a niche medical profession with no prior degree in health sciences.

You'll explore abdominal ultrasound, superficial parts, obstetrics and gynaecology, vascular studies, musculoskeletal ultrasound and paediatrics

Why choose Medical Sonography at CQUni?

Australia's only four-year combined undergraduate/postgraduate course.

Fully competent to perform all types of ultrasound (except echocardiography).

Extensive clinical experience, placed by CQUniversity

State of the art, purpose-built training environments for real-world simulation.

Professional accreditation

Australian Sonographer Accreditation Regulatory (ASAR).

Course	Prerequisites	Campus	Indicative ATAR
Bachelor of Medical Sonography /	N/A	Melbourne	91.85
Graduate Diploma of Medical Sonography			

UNIVERSITY OF CANBERRA

www.canberra.edu.au

Graduate Diploma of Medical Ultrasound

The University offers a graduate qualification in Medical Ultrasound.

Applicants will need to have completed a Bachelor degree first.

Use sound waves to penetrate soft tissue and learn how to diagnose a wide range of medical and health conditions with the 2-year, part-time Graduate Diploma in Medical Ultrasound course.

As one of only two courses of its type available in NSW and ACT, this course will teach you the principles of ultrasound technology and give you the skills to be proficient in a range of examination practices including abdominal, paediatric and musculoskeletal

This course focuses heavily on interactive learning and offers a variety of study modes available to help prepare students (from both medical and non-medical backgrounds), for a career in a public or private hospital radiology practice, or in a community healthcare service.

Career opportunities

There is currently a severe shortage of trained and qualified Medical Ultrasound graduates and as such students should have no problems securing long-term work options on completion of this course.

Entry requirements

Applicants must meet the following criteria:

A completed bachelor degree in medical radiation science or a completed bachelor degree in any field and successful completion of at least two units of degree level anatomy and physiology.

This course requires the completion of 2200 hours of supervised ultrasound experience under the supervision of an Australian Sonographer Accreditation Registry (ASAR) accredited sonographer.

Course	Prerequisites	Campus	Indicative ATAR
Graduate Diploma of Medical Ultrasound	Selection criteria, https://bit.ly/2RiiYn6	Canberra	Graduate entry

CHARLES STURT UNIVERSITY

www.csu.edu.au

Graduate Diploma of Medical Ultrasound

Charles Sturt University offers a graduate program in medical ultrasound. Applicants will need to have completed a Bachelor degree first.

Why study at CSU?

Comprehensive program

Beginning with foundational studies in clinical sectional anatomy and the physics and instrumentation of modern ultrasound, you will progress to specialised subjects in abdominal and pelvic, musculoskeletal, obstetric, vascular, and small parts and paediatric ultrasound.

Reputation for excellence

CSU is a leading provider of medical imaging practitioners in Australia, preparing sonographers, radiographers and nuclear medicine technologists through the School of Dentistry and Health Sciences.

We maintain strong industry alliances to ensure you gain up-to-date knowledge and skills on which to build your career.

Career opportunities

Charles Sturt University's Graduate
Diploma of Medical Ultrasound prepares
you to practise as a sonographer in
hospitals, clinics and community
healthcare settings.

Your job prospects are excellent, as qualified sonographers are currently in high demand across Australia.

Entry requirements

Applicants will:

Hold a medical radiation science, allied health, nursing or medical degree.

Provide evidence that they have access to a clinical ultrasound department under the supervision of an ASAR (Australasian Sonographers Accreditation Registry) accredited sonographer for at least 3 days per week for the duration of the course.

Course	Prerequisites	Campus	Indicative ATAR
Graduate Diploma of Medical Ultrasound	Selection criteria, https://bit.ly/2IYwLMv	Online	Graduate entry