



# DIAGNOSTIC RADIOGRAPHY

Undergraduate entry courses

MAY 2023

CAREERS DEPARTMENT



**Catholic College**  
Wodonga *Life in Jesus*

# Introduction

This document has been developed to assist domestic Year 12 students and their families in researching undergraduate diagnostic radiography courses in Victoria and New South Wales. Information is relevant for the 2024 intake. Please use entry requirements and selection ranks listed in this document as a guide only and check university websites for up-to-date information.

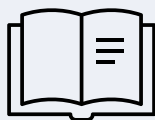
Disclaimer: Information has been taken from university websites and the Victorian Tertiary Admissions Centre (VTAC). Universities featured in this guide reserve the right to change course information, admissions, and entry requirements at any time and without notice. Note: photos in this document are stock images and aren't representative of students at the universities.

Written by Sandie McKoy, May 2023.



## Selection Ranks

Please use indicative Selection Ranks as a guide as they may change for future intakes.



## English prerequisite

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



## Undergraduate

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



## Graduate

This is study you do once you have graduated from a bachelor's degree. For example - master's degree.

# Course Summary

## VICTORIA

University	Course	Campus	Lowest Selection Rank (2023 intake)
RMIT University	Bachelor of Applied Science (Medical Radiations) (Medical Imaging - Radiography)	Bundoora	97.00
Deakin University	Bachelor of Medical Imaging	Geelong Waurm Ponds	94.65
	Bachelor of Medical Imaging (Regional & Remote)	Geelong Waurm Ponds	Not Published
Monash University	Bachelor of Radiography and Medical Imaging (Honours)	Clayton	97.45

## NSW AND ACT

University	Course	Campus	Selection Rank
Charles Sturt University	Bachelor of Medical Radiation Science (Diagnostic Radiography)	Wagga Wagga	65.00
		Port Macquarie	65.00
University of Newcastle	Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)	Newcastle - Callaghan	85.00
The University of Sydney	Bachelor of Applied Science (Diagnostic Radiography)	Camperdown/Darlington	96.00
University of Canberra	Bachelor of Medical Radiation Science (Medical Imaging)	Canberra - Bruce	82.00



This information is for courses in Victoria, New South Wales, and Canberra.

## HOW TO BECOME A DIAGNOSTIC RADIOGRAPHER

### STEP 1: Secondary school studies

Study VCE/HSC subjects such as physics, biology, advanced mathematics, and chemistry. Achieve a competitive ATAR.

### STEP 2: complete an accredited undergraduate or graduate entry degree at one of the following universities:

#### Victoria

Deakin University  
RMIT University  
Monash University

#### New South Wales

Charles Sturt University  
University of Newcastle  
The University of Sydney

#### Canberra

University of Canberra

You will need to meet English language requirements, inherent requirements (e.g., communication skills), and academic entry requirements for course admission.

You may also be required to get or prove you have certain immunisations, have professional indemnity insurance, and get a Police Record Check and Working with Children Check.

### STEP 3: Registration

Apply to register with the Medical Radiation Practice Board of Australia (MRPBA) in the Diagnostic Radiography division of practice, [www.medicalradiationpracticeboard.gov.au](http://www.medicalradiationpracticeboard.gov.au)

### STEP 4: Employment

Use job search websites to find employment. You can work anywhere in Australia.

### STEP 5: Renew your registration each year

Renew your registration each year and ensure you meet the registration standards (i.e., continuing professional development hours, professional indemnity insurance).

### STEP 6: Specialise

With further study, you can specialise in areas such as:

Breast Imaging  
Computed Tomography  
Hybrid Imaging  
Magnetic Resonance Imaging



## IS DIAGNOSTIC RADIOGRAPHY FOR YOU?

Are you a tech-savvy individual with a passion for attention to detail and a knack for problem-solving? Do you enjoy communicating with others and empathizing with those in need? If so, you might be a perfect fit for the exciting world of diagnostic radiography!

As a diagnostic radiographer, you'll be working with cutting-edge medical imaging equipment, capturing images of the human body and analysing them for any abnormalities or injuries that require further attention. You'll need to have sharp analytical skills and the ability to think on your feet, as you'll encounter unexpected challenges, like emergency cases or difficult patients.

But don't worry – you'll also have plenty of opportunities to flex your people skills. Patients may be feeling anxious or in pain, and your empathetic and communicative nature will help put them at ease and create a positive experience. And let's not forget about the adrenaline rush of working in a fast-paced healthcare environment, where every day brings new and exciting challenges.

So if you're ready to join this exciting industry, come and explore the world of diagnostic radiography!

### 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

From 2023, graduates of the program are eligible to apply for general registration as a medical radiation practitioner with the Medical Radiations Practice Board of Australia (MRPBA). Further information on requirements for registration to practice are available from the MRPBA, [www.medicalradiationpracticeboard.gov.au](http://www.medicalradiationpracticeboard.gov.au)

### Early entry program

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

### Selection Rank Adjustments

Depending on Study Score results, applicants may achieve selection rank adjustments through completion of any of these Units 3+4 subjects:

Any Science  
Information Technology  
Mathematical Methods  
Specialist Mathematics.

### First year subjects

The following are the first-year subjects for the 2023 intake and may change for future intakes:

#### Semester 1

Medical Radiations Physics 1  
Foundations of Professional Practice  
Introduction to Human Biosciences  
Medical Imaging 1

#### Semester 2

Medical Radiations Physics 2  
Limb and Trunk Anatomy  
Medical Imaging 2  
Research in Health Science

### Application

Apply via the Victorian Tertiary Admissions Centre (VTAC) from Monday 31 July 2023 for the 2024 intake, [www.vtac.edu.au](http://www.vtac.edu.au)

Course	Prerequisites	Campus	Lowest ATAR - 2023 intake	Lowest Selection Rank - 2023 intake
<b>Bachelor of Applied Science (Medical Radiations) (Medical Imaging - Radiography)</b> 3.5-years (FT or PT equivalent)	Units 3+4: minimum study score of 30 in English (EAL) or 25 in any other English.  Units 3+4: minimum study score of 20 in Mathematical Methods or Specialist Mathematics.  Completion of Units 1+2 or Units 3+4 Biology or Chemistry.	Bundoora	77.10	97.00

## Bachelor of Medical Imaging and Bachelor of Medical Imaging (Regional & Remote)

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

During part of each semester of the four years of the course there will be opportunities to convert theory to competent practice, working under supervision with real patients in clinical environments.

You will be rostered to placements in a broad range of hospitals and private radiology clinics throughout Australia. Further skills practice and consolidation will be conducted in the medical imaging training unit at the Waurm Ponds (Geelong) campus.

## Facilities

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

## Professional accreditation

This course is designed to meet the requirements of the Australian Health Practitioners Regulation Agency (AHPRA). Deakin's Bachelor of Medical Imaging has been awarded accreditation, with statutory direction provided by the Medical Radiation Practice Board of Australia (MRPBA).

## Selection Rank Adjustments

Depending on Study Score results, applicants may achieve selection rank adjustments through completion of any of these Units 3+4 subjects:

English  
Biology  
Chemistry  
Mathematical Methods  
Specialist Mathematics  
General Mathematics  
Physics.

## Rural entry

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

## First Year Subjects

The following are the first-year subjects for the 2023 intake and may change for future intakes:

### Semester 1

Medical Radiation Science 1  
Foundation Principles and Applications of Medical Imaging 1  
Medical Imaging Practice 1

### Semester 2

Foundation Principles and Applications of Medical Imaging 2  
Medical Imaging Practice 2

## Application

Apply via the Victorian Tertiary Admissions Centre (VTAC) from Monday 31 July 2023 for the 2024 intake, [www.vtac.edu.au](http://www.vtac.edu.au)

Course	Prerequisites	Campus	Lowest ATAR - 2023 intake	Lowest Selection Rank - 2023 intake
Bachelor of Medical Imaging 4-years (FT or PT equivalent)	Units 3+4: minimum study score of 30 in English (EAL) or 25 in any other English  Units 3+4: minimum study score of 25 in one of Biology, Chemistry or Physics  Units 3+4: minimum study score of 22 in Mathematical Methods or Specialist Mathematics or 30 in Further Mathematics.	Geelong Waurm Ponds	83.90	94.65
Bachelor of Medical Imaging (Regional & Remote) 4-years (FT or PT equivalent)	As above. Must meet school location eligibility requirements.	Geelong Waurm Ponds	Not published	Not published

**Bachelor of Radiography and Medical Imaging (Honours)**

Radiography and Medical Imaging (Honours) course develops skills to become a registered radiographer. Radiographers facilitate patient diagnosis and management by using X-rays – including CT scanning, ultrasound and magnetic resonance imaging (MRI) – to create diagnostic images for analysis and interpretation.

The program prides itself on the exceptional links it creates between the classroom and the clinical workplace. The practical skills you acquire will be reinforced by placements in a wide variety of clinical institutions, ranging from Victorian rural and regional hospitals to metropolitan Melbourne hospitals and private radiology practices.

This is an integrated course in which radiographic physics, imaging technique and methods, radiologic biology and professional skills are closely related and integrated with clinical placements. You'll be instructed by experts in radiography, benefit from a thriving research environment, and have access to general radiography laboratories and the ultrasound skills lab.

**Clinical placements**

The program incorporates clinical placements in each semester. It is characterised by innovative teaching approaches, including a computer-mediated case-based learning program to assist in clinical decision making; a personal learning and assessment system that includes a clinical e-portfolio; a clinical-relevant scenario-based program focusing on cultural, ethical and moral issues; and a simulated learning environment, where students engage with 'avatars' to support clinical training.

**Professional accreditation**

Completion of the course will enable you to apply for registration as a radiographer with the Medical Radiation Practice Board of Australia. This registration is national and recognised in all states and territories of Australia. Graduates from this course are eligible to apply for a Statement of Compliance from the Australian Society of Medical Imaging and Radiation Therapy (ASMIRT).

**First Year Subjects**

The following are the first-year subjects for the 2023 intake and may change for future intakes:

**Semester 1**

Radiologic biology 1  
Radiologic physics and radiation protection  
Radiation science and practice 1

**Semester 2**

Radiologic biology 2  
Radiation science and practice 1

**Application**

Apply via the Victorian Tertiary Admissions Centre (VTAC) from Monday 31 July 2023 for the 2024 intake, [www.vtac.edu.au](http://www.vtac.edu.au)

Course	Prerequisites	Campus	Lowest ATAR - 2023 intake	Lowest Selection Rank - 2023 intake
<b>Bachelor of Radiography and Medical Imaging (Honours)</b> 4-years (FT or PT equivalent)	Units 3+4: minimum study score of 35 in English (EAL) or 30 in any other English.	Clayton	89.75	97.45
	Units 3+4: minimum study score of 25 in one of Biology or Physics.			
	Units 3+4: minimum study score of 25 in Mathematical Methods or Specialist Mathematics.			

<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.

### Professional accreditation

The Bachelor of Medical Radiation Science (Diagnostic Radiography) is accredited with the Medical Radiation Practice Board of Australia (MRPBA). Upon graduation, you'll be ready to work throughout Australia, or some overseas countries – and you can boost your career prospects by registering with the Medical Radiation Practice Board of Australia. Further study and training will set you up for a career in ultrasound or MRI.

### Admission programs

Includes information on and pathway programs such as Charles Sturt Pathways Course and the Diploma of General Studies, <https://bit.ly/2UoUIAb>

### Early entry programs

Charles Sturt Advantage  
Schools Recommendation Scheme  
<https://bit.ly/2UoUIAb>

### First Year Subjects

The following are the first-year subjects for the 2023 intake and may change for future intakes:

#### Semester 1

Professional Fundamentals  
Indigenous Health  
General Physics  
Human Bioscience 1

#### Semester 2

Introductory Medical Radiation Science  
Health Psychology  
Physics for Medical Radiation Science  
Human Bioscience 2

### Application

Option 1: apply direct to the University via the Charles Sturt Advantage program.

Option 2: apply via the Universities Admissions Centre (UAC), [www.uac.edu.au](http://www.uac.edu.au)

Course	Assumed knowledge	Campus	Indicative ATAR
<b>Bachelor of Medical Radiation Science (Diagnostic Radiography)</b>	Advanced Mathematics	Wagga Wagga	65.00
4-years (FT or PT equivalent)	Physics.	Port Macquarie	65.00

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

### What is diagnostic radiography?

Diagnostic Radiographers produce images of the structure and function of the body to assist medical diagnosis and medical decision making.

Diagnostic Radiographers use a large range of advanced imaging technologies such as plain x-rays, Computer Tomography, Magnetic Resonance Imaging, Ultrasound, Angiography and Mammography, in settings such as accident and emergency, wards and operating theatres.

Diagnostic radiography plays an important role in medicine and health care and contributes significantly to improving health outcomes for the population.

### The course at University of Newcastle

You'll be prepared for a dynamic career using advanced imaging technology. You will develop essential clinical reasoning and patient management skills. Learn how to create medical images to diagnose and manage patient health to save and improve lives.

During your studies you will have access to the latest diagnostic radiography technologies. Some of these include plain x-rays, computed tomography (CT), fluoroscopy, magnetic resonance imaging (MRI), ultrasound, angiography and mammography.

Practice on campus in our world-class, medical sciences precinct and through placement opportunities. You'll graduate with the confidence and competence to undertake professional practice as a diagnostic radiographer.

### Clinical experience

All diagnostic radiography students complete 40+ weeks of professional practice during their degree, starting in the first year. During your placement, you are mentored and supervised by qualified diagnostic radiographers.

You may undertake placements in public and private hospitals and practices located in the Hunter Region, NSW, interstate or overseas. You will take part in metropolitan, regional and rural placements as part of this degree.

### Professional Accreditation

UON diagnostic radiography graduates are eligible to apply for registration with the Australian Health Practitioner Regulation Agency (AHPRA). Your accreditation allows you to work in Australia and overseas.

### Early entry programs

Schools Recommendation Scheme. Plus, there is a new Early Entry program – information will be released soon.

### Application

Apply via the Universities Admissions Centre (UAC), [www.uac.edu.au](http://www.uac.edu.au)

Course	Assumed knowledge	Campus	Selection Rank
<b>Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)</b> 4-years (FT or PT equivalent)	Advanced Mathematics Physics.	Newcastle - Callaghan	85.00



## Bachelor of Applied Science (Diagnostic Radiography)

The Bachelor of Applied Science (Diagnostic Radiography) provides you with the knowledge and skills to use the latest technology to produce high-quality medical images that can assist medical specialists and practitioners to describe, diagnose, monitor and treat injury or illness.

### Who is this course for?

This course is for those looking to pursue a career in a wide range of health settings where you will use technologies to produce medical images to assist in accurate diagnosis and sound patient care.

### Professional practice

An essential component of the course is the 48-week clinical education program commencing in the second year of your study and continuing in the third and fourth year. You will undertake at least one rural or regional (non-metropolitan) clinical placement during the clinical program.

### Career pathways

Studying diagnostic radiography gives graduates the opportunity to work in a range of settings, such as small regional hospitals, large metro imaging departments and private radiology centres. Career opportunities include:

- Imaging departments
- Intensive care departments
- Emergency departments
- Surgery theatre
- Private practice
- Research
- Education

### Professional Accreditation

This course is accredited by the Medical Radiation Practice Board of Australia and graduates can register for the title of diagnostic radiographer.

### First Year Subjects

The following are the first-year subjects for the 2023 intake and may change for future intakes:

#### Semester 1

- Structure, Function and Disease A
- Foundations of Biomedical Science
- Health, Behaviour, and Society
- Medical Radiation Physics

#### Semester 2

- Structure, Function and Disease B
- Health Physics & Radiation Biology
- Imaging Technology 1
- Foundations of Work Integrated Learning

### Admission pathways

See <https://bit.ly/36pVvez>

### Application

Apply via the Universities Admissions Centre (UAC), [www.uac.edu.au](http://www.uac.edu.au)

Course	Assumed knowledge	Campus	Selection Rank
Bachelor of Applied Science (Diagnostic Radiography)	Advanced Mathematics	Camperdown/Darlington	96.00
4-years full-time.	Physics		
	<b>Recommended subjects</b>		
	Biology		
	Chemistry		

**Bachelor of Medical Radiation Science  
(Medical Imaging)**

If your career goal is to become a qualified diagnostic radiographer, but you're also looking for a competitive edge, then this course will give you the skills, knowledge, and experience to confidently apply for employment both in Australia and overseas – six months ahead of other diagnostic radiographer courses.

This course offers an accelerated four-year degree which completes all training in only 3.5 years allowing you enter the job market earlier and giving UC graduates a definite competitive advantage when it comes to looking for future employment opportunities.

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

**Professional accreditation**

The Bachelor of Medical Radiation Science (Medical Imaging) is an approved program of study by the Medical Radiation Practice Board of Australia (MRPBA), and graduates are eligible to apply for registration to practice in Australia as a Diagnostic Radiographer.

**Early admissions program**

Schools Recommendation Schemes,  
<https://bit.ly/34OySLt>

**Graduate entry**

For students who don't achieve the entry requirements for the Bachelor degree, the University of Canberra offers the 2.5-year Master of Medical Imaging. Selection criteria includes:

- A completed bachelor's degree in any discipline, and
- have completed a minimum of two bachelor's degree-level units in human anatomy and physiology (0.25 EFTSU).

**First Year Subjects**

The following are the first-year subjects for the 2023 intake and may change for future intakes:

**Semester 1**

Contextual Physics with Mathematics  
Professional Orientation (Health)  
Regional Anatomy and Physiology  
Understanding People and Behaviour

**Semester 2**

Data Analysis Skills for Science  
Introduction to Medical Radiation Science  
Systemic Anatomy and Physiology  
Introduction to Research in the Health Sciences

**Application**

Apply via the Universities Admissions Centre (UAC), [www.uac.edu.au](http://www.uac.edu.au)

Course	Assumed knowledge	Campus	Selection Rank
<b>Bachelor of Medical Radiation Science (Medical Imaging)</b> 3.5-years full-time.	Biology Mathematics (any) Physics.	Canberra Bruce	82.00