

# Bachelor of Medical Radiation Science (Medical Imaging) (319JA.2)

Please note these are the 2021 details for this course

## Domestic students

Selection rank	87 <b>Note:</b> The selection rank is the minimum ATAR plus adjustment factors required for admission to the program in the previous year. This is an indicative guide only as ranks change each year depending on demand.
Delivery mode	On campus
Location	Bruce, Canberra
Duration	3.5 years
Faculty	Faculty of Health
Discipline	Discipline of Medical Radiation
UAC code	365273
English language requirements	<p>There are non-standard English language requirements for this course. To be eligible you must have an overall IELTS Academic score (or equivalent) of 7.0, with no band score below 7.0. For alternate/equivalent ways of meeting the English requirements for this course please view the English Proficiency Requirements document on the university website.</p> <p><a href="#">View IELTS equivalences</a></p>

## International students

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**Academic entry requirements** To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our academic entry requirements page.

[View UC's academic entry requirements](#)

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**Location** Bruce, Canberra

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**Duration** 3.5 years

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**Faculty** Faculty of Health

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**Discipline** Discipline of Medical Radiation

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**CRICOS code** 087833F

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[View IELTS equivalences](#)

## About this course

### Becomes an experienced qualified diagnostic radiographer – fast

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.

Upon graduation, you'll be eligible for registration from the Medical Radiation Practice Board of Australia (MRPBA) to practice as a Diagnostic Radiographer and can explore career opportunities in general radiography, angiography, mammography, computed tomography (CT), magnetic resonance imaging (MRI) and medical ultrasound.

## Study a Bachelor of Medical Radiation Science (Medical Imaging) at UC and you will:

- gain a high level of ethical and interpersonal skills for interacting with patients from diverse backgrounds and cultures
- learn to effectively function as part of a healthcare team
- acquire and apply clinical reasoning, treatment and evaluation skills to basic and life sciences
- develop skills to undertake all routine diagnostic radiographic procedures
- learn to operate diagnostic radiographic instrumentation to optimise image quality and minimise radiation dose or other potential patient hazards
- develop skills in designing, implementation and management of quality assurance programs for medical imaging applications
- acquire professional attitudes and attributes as a reflective practitioner.

## Work Integrated Learning (WIL)

WIL is a key part of the Bachelor of Medical Radiation Science (Medical Imaging) program and has been created to give students valuable hands-on experience using a broad range of x-ray units within a simulated and controlled lab environment.

This approach builds confidence and has been created to ensure that all UC students are familiar and experience with real-world technology by the time they reach their first clinical placements.

Students will also participate in a variety of placements throughout the course including two five-week clinical placements during the second and third years of your studies and have the chance to take part in longer residences too.

Each placement can occur across several different local and/or national healthcare settings, including regional, rural, large teaching hospitals and private practice placements.

## Career opportunities

A Bachelor of Medical Radiation Science (Medical Imaging) is a globally recognised and respected qualification that will enable to pursue a career in any of the following positions.

- general radiographer
- mammographer
- angiographer
- magnetic resonance imaging (MRI) radiographer
- computed tomography (CT) radiographer
- clinical educator
- clinical researcher

- research manager
- vendor application specialist
- sonographer\*

To gain accreditation in this field\*, further postgraduate study is necessary.

## Course-specific information

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.

Assumed knowledge for entry is the HSC equivalent of Biology, Physics, and Mathematics.

There are non-standard English language requirements for this course. To be eligible, you must have an academic IELTS of 7.0 overall, or equivalent, with no band score below 7.0.

Before undertaking any clinical practice or clinical laboratory experience, you must:

- provide your immunisation history
- apply for a National Police Check
- have qualifications in first aid/CPR.

Eligible students who wish to complete the degree's embedded Honours option must attain a grade point average (GPA) of at least 5.5 in the first two years of the course and obtain approval stating that their supervisor has availability to oversee the project.

Graduating students will be able to gain registration to practice as a diagnostic radiographer, as well as being able to apply for a Statement of Compliance with the Australian Society of Medical Imaging and Radiation Therapy (ASIMRT) and eligible for membership.

## Professional accreditation

This course is accredited with the Australian Health Practitioner Regulation Agency (AHPRA) through the Medical Radiation Practice Accreditation Committee (MRPAC), the accreditation committee of the Medical Radiation Practice Board of Australia (MRPBA). Graduating students will be eligible to apply for registration as a Diagnostic Radiographer with the MRPBA.

# Admission requirements

Admission to this course is based on an entrance rank. A rank can be achieved by the following means:

- Year 12 ATAR
- other Australian Qualification
- work experience
- overseas qualification

We also offer a number of entry initiatives that give you the opportunity to gain entry to the University via alternate pathway programs and admissions schemes.

More information is available on our Alternative Entry page: <http://www.canberra.edu.au/future-students/applications/apply-now/alternative-entry>

Admission to this course is competitive. Applications will be assessed on the basis of academic merit and the number of available places. Domestic applications will open on the 1st September and close on the 30th November each year for the following year with the first offers to be released in December.

International applications are accepted at any time. Please refer to the key dates <https://www.canberra.edu.au/future-students/apply-to-uc/key-dates> for further information.

## Additional admission requirements

Police clearance checks

Immunisation

Current First Aid certificate

## Assumed knowledge

Assumed knowledge for entry is to HSC equivalent of Biology, Physics and Mathematics. Inherent Requirements: Clinical practice and/or clinical laboratories during the medical imaging course require students to: - be involved in encounters where students must physically interact with patients and/or other students coming from a range of ethnic, age, gender and disability backgrounds; - be physically capable to independently lift and move patients and equipment and to wear lead gowns (heavy) for extended periods of time; - be involved in patient encounters where patients may be severely injured or be at the end stage of terminal illnesses; - work in environments which may be highly stressful; - have vision able to visualise detail within medical images; - due to government requirements, wear clothing during clinical placements that does not cover the elbows and forearms; - attend clinical workplaces, for extended periods of time, in interstate, metropolitan, regional and rural areas.

## Periods course is open for new admissions

This course is not open for new admissions.

## Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current [course rules and university policy](#).

# Course requirements

Bachelor of Medical Radiation Science (Medical Imaging) (319JA) | 96 credit points

**Restricted Choice - Must select 1 of the following**

[Expand All](#) | [Collapse All](#)

## **Professional Stream - 15 credit points as follows**

### **Open Electives - 3 credit points from the following**

- Select 3 credit points from anywhere in the University.

### **Required - Must pass 12 credit points as follows**

MRS Residency 1 (9cp) (10022) | 9 credit points – Level 3

Radiographic Imaging Capstone (10032) | 3 credit points – Level 4

## **Honours Stream - 15 credit points as follows**

### **Required - Must pass 9 credit points as follows**

Medical Imaging Project Design H (10017) | 3 credit points – Level H

MRS Residency 1 H (6cp) (10023) | 6 credit points – Level H

### **Restricted Choice - 6 credit points as follows**

#### **Part B - Must pass 3 credit points from the following**

Medical Imaging Research Project B H (10019) | 3 credit points – Level H

Medical Imaging Research Project B H (11570) | 6 credit points – Level H

#### **Part A - Must pass 3 credit points from the following**

Medical Imaging Research Project A H (10018) | 3 credit points – Level H

Medical Imaging Research Project A H (11569) | 0 credit points – Level H

- From S2/2019 the unit code for Medical Imaging Research Project A has changed to 11569 and the code for Medical Imaging Research Project B has changed to 11570.

## **Required - Must pass 81 credit points as follows**

Systemic Anatomy and Physiology (6529) | 3 credit points – Level 1

Professional Practice in Health (8997) | 3 credit points – Level 1

Regional Anatomy and Physiology (9808) | 3 credit points – Level 1

Introduction to Medical Radiation Science (9848) | 3 credit points – Level 1

Introductory Physics (10000) | 3 credit points – Level 1

Computed Tomography (10013) | 3 credit points – Level 3

Imaging Anatomy (10014) | 3 credit points – Level 2

Imaging Pathology (10015) | 3 credit points — Level 2

Informatics and Image Processing (10016) | 3 credit points — Level 2

MRS Practicum 1 (10020) | 3 credit points — Level 2

MRS Practicum 2 (10021) | 3 credit points — Level 3

MRS Residency 2 (9cp) (10024) | 9 credit points — Level 4

Physical Principles of MRS (10026) | 3 credit points — Level 2

Radiation Biology and Dosimetry (10027) | 3 credit points — Level 2

Radiographic Imaging 1 (10028) | 3 credit points — Level 2

Radiographic Imaging 2 (10029) | 3 credit points — Level 2

Radiographic Imaging 3 (10030) | 3 credit points — Level 3

Radiographic Imaging 4 (10031) | 3 credit points — Level 3

Radiographic Image Interpretation (6cp) (10033) | 6 credit points — Level 4

Cross-Sectional Image Interpretation PG (10239) | 3 credit points — Level P

Introduction to Research in the Health Sciences (11398) | 3 credit points — Level 1

Understanding People and Behaviour (11399) | 3 credit points — Level 1

Professional Orientation (Health) (11400) | 3 credit points — Level 1

Research in Medical Radiation Science (11475) | 3 credit points — Level 2

In addition to course requirements, in order to successfully complete your course you must meet the inherent requirements. Please refer to the [inherent requirements statement](#) applicable to your course

# Typical study pattern

UC - Canberra, Bruce

Accelerated Full Time, Semester 1 Commencing

## Year 1

### Semester 1

Introduction to Medical Radiation Science (9848)

Professional Orientation (Health) (11400)

Regional Anatomy and Physiology (9808)

Understanding People and Behaviour (11399)

### Semester 2

Introduction to Research in the Health Sciences (11398)

Introductory Physics (10000)

Professional Practice in Health (8997)

Systemic Anatomy and Physiology (6529)

## **Year 2**

### **Practice 2**

MRS Practicum 1 (10020)

### **Semester 1**

Imaging Anatomy (10014)

Physical Principles of MRS (10026)

Radiation Biology and Dosimetry (10027)

Radiographic Imaging 1 (10028)

### **Semester 2**

Computed Tomography (10013)

Imaging Pathology (10015)

Radiographic Imaging 2 (10029)

Research in Medical Radiation Science (11475)

### **Winter Term**

Informatics and Image Processing (10016)

## **Year 3**

### **Practice 1**

MRS Practicum 2 (10021)

### **Practice 3**

Radiographic Imaging Capstone (10032)

Open Elective Unit

### **Semester 1**

Radiographic Image Interpretation (6cp) (10033)

Radiographic Imaging 3 (10030)

Radiographic Imaging 4 (10031)

### **Semester 2**

Cross-Sectional Image Interpretation PG (10239)

MRS Residency 1 (9cp) (10022)



Year 4

Semester 1

MRS Residency 2 (9cp) (10024)

# Course information

## Course duration

This course is an accelerated course and can be completed in seven semesters and winter terms full-time. Maximum eighteen semesters.

This course is only available for full-time enrolment.

## Learning outcomes

Learning outcomes	Related graduate attributes
<p>The scientific principles and concepts of all medical imaging techniques currently used in diagnostic radiographic clinical practice;</p> <p>The protocols and associated techniques associated with diagnostic and interventional radiographic examinations procedures;</p> <p>Anatomy, physiology and pathology relevant to the practice of diagnostic radiography;</p> <p>The normal and abnormal imaging appearances within current diagnostic radiographic procedures;</p> <p>Sociological aspects of illness and health-care;</p> <p>The role of the diagnostic radiographer in the health-care team in Australia and internationally;</p> <p>Patient information management systems and digital imaging principles including their effective application in medical imaging; and</p> <p>Radiation protection, biology and dosimetry applicable to diagnostic radiography.</p>	<p>Professional:</p> <p>Up-to-date and relevant knowledge and skills; and</p> <p>Work collaboratively as part of a team, negotiate, and resolve conflict.</p> <p>Global Citizens:</p> <p>Think globally about issues in their profession;</p> <p>Adopt an informed and balanced approach across professional and international boundaries; and</p> <p>Make creative use of technology in their learning and professional lives.</p>

Graduates of the honours component of this course will:

1. Obtain a coherent and advanced understanding of the key values, theories, perspectives and concepts that underpin the profession of medical imaging.
2. Be able to use their advanced knowledge, skill, understanding and professional application of the clinical and educational tools relevant to the

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ethical practice of medical imaging.

3. Be able to communicate clearly and coherently in a diverse and varied range of medical imaging settings with a range of stakeholders.

4. Have the cognitive ability to read, critique, evaluate, apply and gain evidence from research and science into the practices of health care and health services.

Graduates of the course will be expected to possess knowledge of:

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A high level of ethical and interpersonal skills with patients from diverse background/cultures and with other health professionals so to effectively function as part of a health-care team;

Skills in undertaking all routine diagnostic radiographic procedures including the selection of protocol consistent with the patient's medical condition to optimise image quality and minimise radiation dose or other potential patient hazards;

Skills in the operation of diagnostic radiographic instrumentation to optimise image quality and minimise radiation dose or other potential patient hazards;

Skills in designing, implementation and management of quality assurance programs for medical imaging applications;

Professional attitudes and attributes as a reflective practitioner;

A willingness to maintain professional development and be proactive in the profession of diagnostic radiography; and

Effective communications, problem solving and critical analysis.

Professional:

Communicate effectively;

Work collaboratively as part of a team, negotiate, and resolve conflict;

Take pride in their professional and personal integrity;

Up-to-date and relevant knowledge and skills;

Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; and

Display initiative and drive, and use their organisational skills to plan and manage their workload.

Global Citizens:

Communicate effectively in diverse cultural and social settings;

Behave ethically and sustainably in their professional and personal lives.

Lifelong Learners:

Evaluate and adopt new technology;

Reflect on their own practice, updating and adapting their knowledge and skills for

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continual professional and academic development;

Be self-aware; and

Adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas.

Graduates will be able to demonstrate:

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## Awards

Award	Official abbreviation
Bachelor of Medical Radiation Science (Medical Imaging)	B MRS(MI)
Bachelor of Medical Radiation Science (Medical Imaging) (Honours)	B MRS(MI)(Hons)

## Honours

Eligible students who wish to complete honours will enrol in and complete honours units for the embedded 4th Year Honours option.

Entry Requirements:

Attain a GPA of at least 5.5 in the first 2 years of the course and

Obtained supervisor project approval and availability to supervise the Honours project.

## Alternative exits

In order for the Diploma of Health Studies to be awarded the student must have:

- a) completed 24 credit points with at least 12 credit points at Level 1
- b) completed a minimum of 12 credit points at UC and
- c) obtained a minimum of 12 credit points in any of the health disciplines.

In order for the Associate Degree in Health Studies to be awarded the student must have:

- a) completed 48 credit points with at least 12 credit points at Level 1 and 12 credit points at Level 2
- b) completed a minimum of 24 credit points at UC and
- c) obtained a minimum of 24 credit points in any of the health disciplines.

## Enquiries

Student category	Contact details
Current and Commencing Students	Please contact the Faculty of Health faculty office, email <a href="mailto:student.centre@canberra.edu.au">student.centre@canberra.edu.au</a>
Prospective Domestic Students	Email <a href="mailto:study@canberra.edu.au">study@canberra.edu.au</a> or Phone 1800 UNI CAN (1800 864 226)
Prospective International Students	Email <a href="mailto:international@canberra.edu.au">international@canberra.edu.au</a> or Phone +61 2 6201 5342

## Download your course guide



# Scholarships

Find the scholarship that's the right fit for you

[Explore Scholarships](#)

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CRICOS 00212K

TEQSA Provider ID: PRV12003 (Australian University)

UC acknowledges the Ngunnawal people, traditional custodians of the lands where Bruce campus is situated. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of Canberra and the region. We also acknowledge all other First Nations Peoples on whose lands we gather.