

BACHELOR OF RADIATION SCIENCES (INFORMATICS)

USE TECHNOLOGY TO CHANGE THE FUTURE OF HEALTH

Do you want to improve healthcare through data and technology? Looking for a way to use your technical skills to make a difference? Studying medical radiation science and informatics allows you to play an important role in shaping the future health landscape.

Through our Bachelor of Radiation Sciences (Informatics), you'll develop scientific and technical expertise, alongside a broad understanding of medical radiation science, IT systems and data management.

With opportunities to immerse yourself in the latest technology, you'll learn how to use data visualisation and medical imaging software, design databases in Oracle and code Java applications. Get ready to be at the forefront of the next IT-lead breakthrough in health.

This course is co-delivered by the Faculty of Medicine, Nursing and Health Sciences and the Faculty of Information Technology.

In the Bachelor of Radiation Sciences (Informatics) you will:

- Understand the science behind medical radiation physics, image processing and radiation treatments.
- Apply good programming practices and security controls and discover the best project management tools and techniques for IT projects.
- Learn how to collect, organise, interpret and report health data, and explore how new data analytics and artificial intelligence can transform our healthcare system.

Course code

M20171

CRICOS course code 0100635

Study mode

On-campus (Clayton)

Some first year units will be taught at the Caulfield campus.

Intakes

First semester: February

Durations

Full time: 3 years

COURSE STRUCTURE

YEAR 1	YEAR 2	YEAR 3
Anatomy and physiology Research and evidence Medical radiation physics Programming fundamentals in Java Computer systems, networks and security Data science	Pathophysiology for medical radiation science Fundamentals of cancer and its management Medical radiation science: radiographic principles and professional skills Medical imaging anatomy Nuclear medicine IT professional practice	Computed tomography and digital image processing Magnetic resonance imaging Ultrasound Databases Maker Lab Project management System development Data visualisation

Find out more about what you'll study, visit monash.edu/study/course/m2017



"Having worked in healthcare for almost 30 years, it's clear we are on the verge of an explosion in digital health and informatics. Having skilled individuals who can work at a professional level in both the health and tech worlds will be a necessary requirement of Australia's future health system."

Professor Chris Bain

Professor of Digital Health, Faculty of Information Technology



WHY STUDY INFORMATICS?

Combine radiation sciences with information technology, to understand how systems and data can transform healthcare. You'll learn about the fundamentals of radiation sciences, but also about digital health and data management. You'll gain knowledge and skills in areas like programming, network design, database management and system security, allowing you to explore future careers in the growing field of health informatics.

CAREER OPPORTUNITIES

A range of rewarding career opportunities await our Bachelor of Radiation Sciences (Informatics) graduates.

Technology is transforming our health system and services, and with this, roles in health informatics are expected to grow. Potential career pathways may include:

- Electronic medical record (EMR) analyst
- Health informatics manager
- Digital health officer

LEARN MORE

For further information about the Bachelor of Radiation Sciences (Informatics), including entry requirements and fees, visit monash.edu/study/course/m2017 or contact:

FUTURE STUDENT ENQUIRIES

T 1800 MONASH (666 247)

E future@monash.edu

monash.edu/medicine/spahc/radiography

FURTHER STUDY

Graduate study destinations can include:

- Master of Biotechnology
- Master of Business Information Systems
- Master of Cybersecurity
- Master of Data Science
- Master of Information Technology
- Master of Medical Ultrasound*
- Master of Public Health

You may also wish to consider graduate research, starting with an Honours year, exploring a research project in an area such as medical radiation science, digital health or data science.

*Available to domestic students, limited offshore availability.

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