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
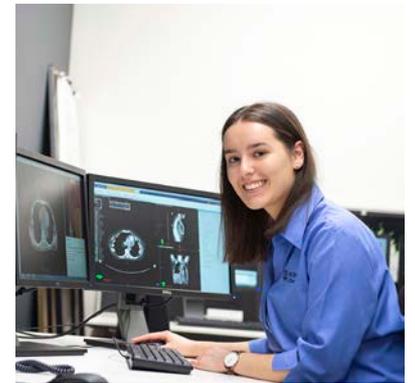CRICOS course code 0100635

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, computer systems, data science	Fundamentals of cancer, pathophysiology for medical radiation science, radiography, radiographic principles, medical imaging anatomy IT professional practice	CT, ultrasound, MRI Databases, maker lab, system development, project management, data visualisation

To find out more about which subjects you'll study, visit monash.edu/study/course/m2017

"I've loved learning about human anatomy and pathophysiology as well as how to read different imaging modalities. Exploring the different types of cancers and how they begin and spread is complex, but fascinating."

Sarah Farrugia
Bachelor of Radiation Sciences

GROUP OF EIGHT AUSTRALIA
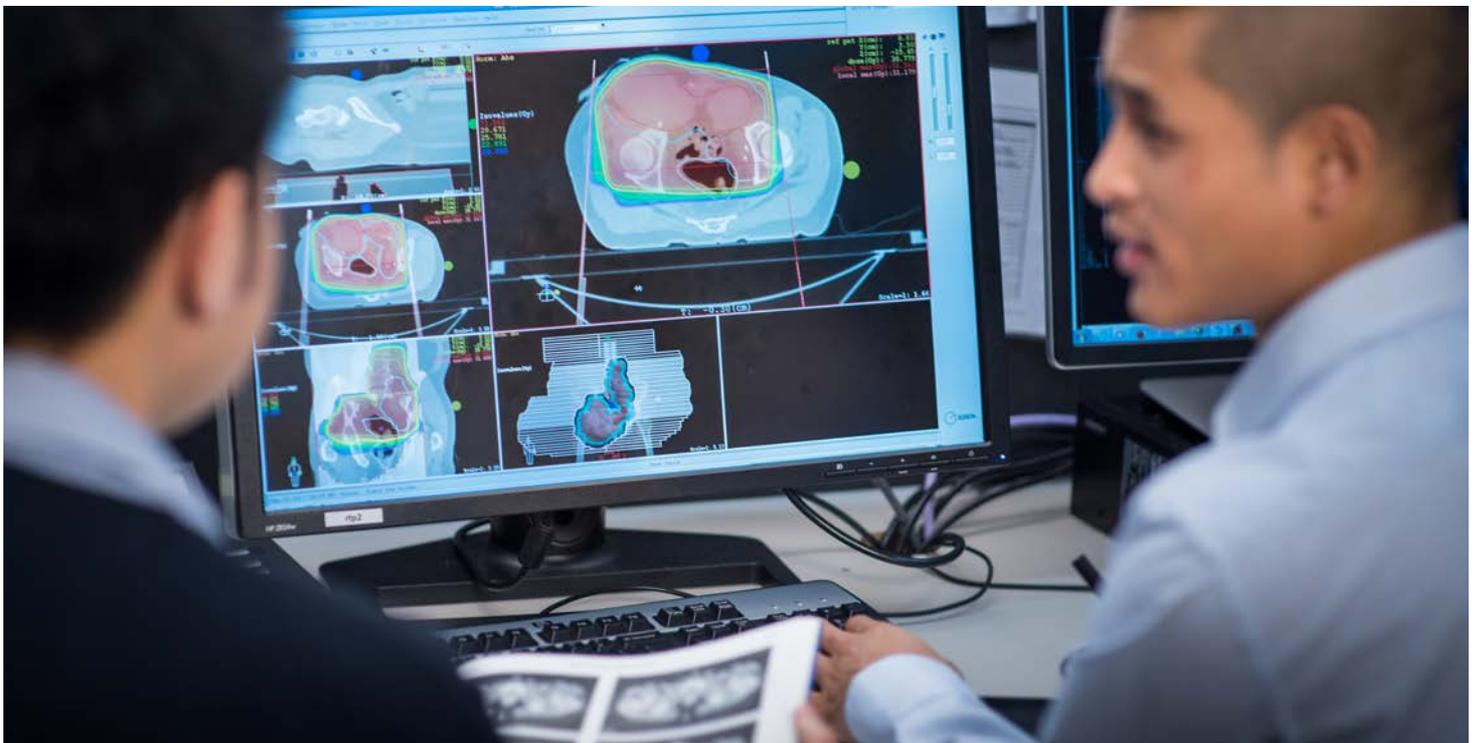
WHY STUDY INFORMATICS?

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

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.

"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

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

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