

# **Bachelor of Clinical Science**

Improving lives and contributing to healthier communities is one of the most rewarding things you can do. A career in medicine or health as a doctor, physiotherapist, medical researcher or other health professional is exciting and dynamic, and provides you with an opportunity to make a real difference.

This innovative and accelerated two-year course focuses on human clinical sciences and builds the foundational professional skills you'll need for a career in medicine, allied health or medical research.

### **KEY FEATURES**

- This course is the ideal preparation for graduateentry programs, such as Macquarie's **Doctor of Medicine** (Macquarie MD), or other postgraduate degrees in related fields, such as **physiotherapy**, **public health** and **medical research**.
- It also prepares you to pursue a range of health careers such as dentist, allied health professional, veterinary surgeon, health policy designer, pharmaceutical specialist, and biotechnology specialist.
- You'll get to your career goal sooner by accelerating your studies - completion of your Bachelor's degree in two years instead of three.
- You'll have the option to receive targeted preparation for medical school admissions tests and interviews.
- Build **practical technical skills** using the latest simulation technology and through working with human anatomical specimens.
- You'll learn in an environment that is home to Macquarie University Hospital – Australia's first and only private, not-for-profit hospital on a university campus.
- You'll have the opportunity to undertake work experience in a healthcare setting or medical research facility.

## **WHAT YOU WILL STUDY**

- Gain fundamental knowledge in biomedical, medical and clinical sciences and apply this knowledge to the human body using a system-based approach.
- Learn about anatomy, physiology, biochemistry, genetics, neuroscience, pharmacology, embryology, pathology, immunology, and medical microbiology.
- Develop key employability skills in personal reflection, communication and critical thinking through a series of Professional Practice units designed specifically for the course.
- Study intensively during Macquarie's two regular sessions, as well as a shorter summer session.
- In second year, choose from a range of senior clinical science electives to suit your career aspirations.

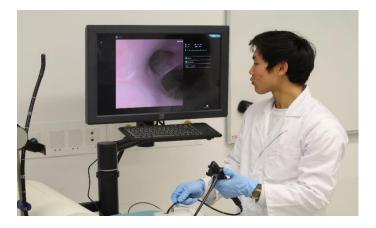


### **COURSE ENTRY**

- Selection rank: 90.00 or equivalent.
- Assumed knowledge: HSC **Mathematics** (Band 4).
- Recommended knowledge: HSC Chemistry (B4).
- If you haven't recently completed Chemistry and Mathematics, or equivalent, you must complete bridging courses prior to commencement.
- We value prior learning in English, mathematics and the natural sciences (biology, chemistry and physics).
   We offer up to six Academic Advantage Adjustment Factors to students who have excelled in these areas.
- Students may be eligible for adjustment factors from other schemes as well (up to the maximum of six from any combination of schemes).

## **FIND OUT MORE**

• <u>courses.mq.edu.au/BClinSc</u>



## COURSE STRUCTURE FOR THE BACHELOR OF CLINICAL SCIENCE

	Session 1	Session 2	Session 3
Year 1	MEDI1400 Foundations of Learning, Communication and Teamwork	MEDI2200 Human Cell and Molecular Biology	MEDI2400 Foundations in Ethics and Society
	BMOL1001 Biomolecules	MEDI2004 Pharmacology Fundamentals	Elective 2
	ANAT1001 Introduction to Anatomy	MEDI2100 Musculoskeletal System	Elective 3
	PHYS1210 Physics for Life Sciences	MEDI2101 Cardiovascular and Respiratory System	Elective 4
	STAT1171, STAT1250 or STAT1371 Statistics	Elective 1	
Year 2	MEDI2300 Nervous System	MEDI2102 Renal, Reproductive and Endocrine Systems	
	MEDI2103 Alimentary System, Nutrition and Metabolism	MEDI3200 Translational Biology and Genomics	
	MEDI2005 Human Health and Disease Processes	MEDI3401 Professional Learning in the Clinical Sciences	
	MEDI3XXX/PHTY3XXX Selective 1	MEDI3XXX/PHTY3XXX Selective 3	
	MEDI3XXX/PHTY3XXX Selective 2	MEDI3XXX/PHTY3XXX Selective 4	

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## Courses

MQ Health's range of undergraduate and postgraduate degrees connect with each other.



#### **BACHELOR OF CLINICAL SCIENCES**

The Bachelor of Clinical Sciences is a two-year fast-track degree (condensing three years' study into two) that is a feeder program into graduate-entry professional programs or a pathway to research, such as the Doctor of Medicine, Doctor of Physiotherapy, Master of Public Health, or Master of Reaction of Research.

Students learn in simulated clinics, are exposed to the latest technology and equipment, and work with human anatomical specimens. They do a capstone professional community engagement unit to explore where they might want to work in the future.



## MASTER OF PUBLIC HEALTH (RESEARCH)

The first year of the degree focuses on the breadth and depth of public health, ensuring students receive training in core concepts as well as introductory training in applied research methods. In the second year, they undertake a research project, in an area of study relevant to public health, guided by research supervisors.



#### MASTER OF RESEAR

The two-year Master of Research offers a pathway into higher degree research, which can culminate in a PhD or a research career. The first year involves advanced coursework units in students' areas of study. The second year focuses on research preparation and training as students write a 20,000word research thesis.



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#### PROFESSION / DOCTORS IN TRAINING

All these degrees prepare graduates for the next steps in their career, either a doctors-in-training program or directly transitioning into a professional role in public health, physiotherapy or research.



#### DOCTOR OF MEDICINE

The Doctor of Medicine (Macquarie MD) is a four-year graduate-entry medical degree. It is fully integrated and focuses on training students to deliver exceptional patient-centred clinical care and to take part in health and medical research. Students experience different health systems, through clinical placements at Macquarie University Hospital, MQ Health clinics and in clinical settings across Australia and the globe, including India and North America.

The Macquarie MD is accredited by the Australian Medical Council and approved by the Medical Board of Australia.



#### MASTER OF PUBLIC HEALTH

This postgraduate coursework degree develops students' skills in teamwork, leadership and innovation. Students build a deep understanding of the significance of public health in Australia and globally and learn about the biological, environmental, socio-economic, behavioural, cultural and other factors that impact human health. In this coursework master's, students have the opportunity to apply their theoretical skills during a ten-week placement.



#### DOCTOR OF PHYSIOTHERAPY

The Doctor of Physiotherapy is a three-year graduateentry degree that teaches advanced skills not available in most Australian universities. As well as learning the required practical and clinical skills, students also learn about business marketing, management, policy advocacy, digital communication and leadership.

Taught by experienced, passionate clinical educators and experts in their fields, theoretical knowledge is integrated through students engagement with more than 1,000 hours of clinical experience from the first session.

The degree is accredited with the Australian Physiotherapy Council and the Physiotherapy Board of Australia. The degree aligns with international qualifications.