If you study Biomedicine at Melbourne, you’ll learn from academics of the highest calibre.

Terry Mulhern’s experience spans senior research and academic posts in Britain and Australia, including the University of Oxford and Melbourne’s prestigious Bio21 institute.

“Melbourne has long been a hotspot for biomedical research,” he says. “It is a privilege to teach where I can excite students with stories of the amazing research that has happened, and is still happening, within a stone’s throw of their classroom.”

Terry is Senior Lecturer and Director of Teaching and Learning in the Department of Biochemistry and Molecular Biology.
WHY BIOMEDICINE?

Biomedicine is a discipline concerned with the processes and systems that create, sustain and threaten life.

As we gain more knowledge of how biological systems are interconnected, the world increasingly needs people who can work across disciplines to identify patterns in the function and structure of the human body, as well as the determinants of disease and how to prevent it.

SOLVE BIG PROBLEMS

By choosing a career in Biomedicine, you’ll be working with like-minded people who aim to improve the health and wellbeing of our communities. You’ll be involved in world-changing research, responding to pandemics, finding cures for diseases, discovering the fascinating way the human body works and analysing global patterns of disease.

MASTER COMPLEXITY

Healthcare today is multifaceted, requiring the ability to combine skilled patient care with preventive health management programs and technological expertise.

If you are considering Biomedicine, it is likely that you have a particular interest in being a doctor. But there’s a world of other medical, allied health and bioengineering professions to discover that play essential roles in biomedical research and global healthcare.

Careers in biomedical science are diverse and there are plenty of options for you as roles are always changing and new careers forming: you could become a biotechnologist, forensic scientist, neuroscientist, pharmaceutical scientist or microbiologist – just to name a few. You’ll explore several fields, and this breadth of knowledge will prepare you well for the complexity of modern healthcare’s challenges, no matter what role you choose.

CHOOSE YOUR PATH – OR MAKE A NEW ONE

While about one-third of Melbourne Biomedicine graduates are selected into the Doctor of Medicine (MD) program at this University – representing over half of the annual domestic intake for the MD – even more collectively choose another graduate course at Melbourne, including the Doctor of Dental Surgery (DDS), Doctor of Physiotherapy (DPT) and Doctor of Optometry (OD).

Honours and masters programs leading into PhD pathways are also very popular, no doubt reflecting the significant impact of a student learning environment that is embedded within a world-class biomedical research precinct which includes a number of medical research institutes and hospitals.
The Melbourne Model is designed to help you maximise your strengths, discover new ones and stand out in the workplace. You’ll start with an undergraduate degree, developing a deep understanding of your chosen area of interest and a breadth of knowledge across multiple disciplines. On graduation you can enter the workforce, or progress to one of over 400 specialised graduate programs. The Melbourne Model lets you design your own study path while developing the knowledge, skills and interdisciplinary perspectives you need to thrive in every kind of future.
YOUR DEGREE

The Bachelor of Biomedicine prepares you for the challenges of healthcare delivery and biomedical research. At the core of the degree is knowledge of the normal structure and function of the body and consideration of the determinants of disease.

You’ll develop fundamental skills in critical thinking, problem-solving, the analysis of evidence and communication—skills that can be applied across a broad range of roles and industries.

YOUR MAJOR

Your major is your chosen specialisation that you’ll focus on throughout your degree. In your first year you’ll be able to try a few different study areas before deciding on your major. You will need to choose your major only at the end of second year. There are 12 majors to choose from—delve into the following pages to explore your options!

YOUR BREADTH STUDIES

Breadth is a unique feature of the Melbourne Model. It gives you the chance to explore subjects outside your core area of study, developing new perspectives and learning to collaborate with others who have different strengths and interests—just as you will in your future career.

Some of our students use breadth to explore creative interests or topics they have always been curious about. Others use breadth to improve their career prospects by complementing their major with a language, communication skills or business expertise. Many discover new passions through breadth, and some even change their career plans!

‘Breadth tracks’ (groups of breadth subjects taken throughout your degree) may even qualify you for graduate study in a field that’s very different to your major.

See page 6 for more examples of what you could do with breadth.

YOUR CONNECTIONS

The Melbourne Model connects students with each other, the University community and the wider world. You will be surrounded by other high-achieving students who will inspire you to take on new challenges and push yourself to a higher level.

We encourage every student to engage with organisations outside the University, through practical placements, applied research projects and overseas study programs.

Our graduates are in demand: we are ranked 7th in the world for employability. More than 250 Australian and international organisations actively recruit on campus each year.

YOUR NEXT STEP: WORK OR GRADUATE STUDY

After you finish your Biomedicine degree, you can choose to join the workforce, or go on to further study at graduate level.

Choose graduate study at Melbourne and you’ll get the full benefit of the graduate school experience by studying intensively, in small classes led by experts and alongside others who share your deep interests and desire to succeed.

Your graduate degree will be internationally recognisable, setting you apart from those who study a traditional Australian single or double degree.

See page 24 to find out where your degree could lead.

MELBOURNE MODEL GRADUATES:

- Are highly satisfied with their teachers
- Develop analytical problem-solving skills
- Earn more and believe they are paid and recognised fairly
- Enjoy the work they do
- Believe their jobs make a positive contribution
- Are satisfied with their level of responsibility at work
- Volunteer and get involved

University of Melbourne Career Outcomes Survey 2017

Q5 Graduate Employability Rankings 2018.
$26 000 difference in annual salary between holders of a graduate vs bachelor’s degree. Graduate Careers Australia 2015.
The University of Melbourne’s Bachelor of Biomedicine provides the best preparation for the challenges of contemporary healthcare delivery and research.

THE BIOMEDICINE STUDENT

Students who enjoy Biomedicine are interested in careers primarily in professional health care in which they can deploy skills in critical thinking, problem-solving, evidence analysis and communication.

If you are like most of our current students, you’re a high achiever at school, enjoy most of your science, technology and mathematics subjects, and want to help others or change the world. The Bachelor of Biomedicine was purpose-built to develop these interests and to prepare you for a range of professional health careers.

BIOMEDICINE AT MELBOURNE

The Biomedicine degree includes core subjects that provide you with the foundations for a broad range of professional health pathways. The subjects needed to get into the Doctor of Medicine (Anatomy, Biochemistry and Physiology) are built into three unique second-year subjects, and are taught throughout the biomedical science majors.

Core third-year subjects, available only to you as a Biomedicine student, take on a more clinical (Molecule to Malady) or Population (Frontiers in Biomedicine) focus, tying together all of the elements of your Biomedicine journey. This integration emphasises the relationships between different biomedical disciplines and enhances your understanding of the human body in its full complexity.

COURSE STRUCTURE

The Bachelor of Biomedicine requires the successful completion of 22 subjects (300 credit points), including one major. Most students study eight subjects in first and third years and six in second year.

First year

You will study foundation subjects in biology and chemistry, focusing on key biomolecules, fundamentals of cell biology, chemical processes in a biological context, basic genetics and interactions between genes and the environment. You will also take subjects in experimental design and data analysis, mathematics and physics.

Second year

Compulsory core subjects build on your foundational knowledge and examine several biomedical disciplines.

Semester 1 focuses on molecular and cellular aspects of biomedicine: biochemistry and molecular biology, cell biology, genetics, microbiology and immunology, and cellular pathology.

Semester 2 focuses on integrated human structure and function: gross anatomy, pharmacology and physiology.

In both semesters you will also study elective subjects in science and biomedical science.

Third year

You will complete your major, explore contemporary issues in biomedicine and prepare for professional practice through two capstone subjects, which may include a practical real-life project or work experience.

MAJORS

Your major is made up of four subjects at third-year level. Six majors are automatically available to you as a result of completing your second-year core subjects. By completing particular selective subjects in second year, you can expand the range of majors available to you later. All 12 Biomedicine majors are also available through the Bachelor of Science.

Biomedicine students can take one of the following majors:

- Biochemistry and Molecular Biology
- Bioengineering Systems
- Biotechnology
- Cell and Developmental Biology
- Genetics
- Human Structure and Function
- Immunology
- Microbiology and Immunology
- Neuroscience
- Pathology
- Pharmacology
- Physiology

SELECTIVES

You can choose to use your selective studies to diversify your majors options for third year, or to take other science subjects that broaden your interests in general.

BREADTH

Alongside your biomedicine subjects, you must take at least four breadth subjects during your degree, from outside your core area (see page 5).

With more than 1000 breadth subjects to choose from, the opportunities to expand your knowledge are almost endless.

For example, you could take breadth in sustainability and global health, giving you skills to make a difference in developing communities around the world. Breadth in AUSLAN (Australian sign language) could help you communicate with patients who have hearing impairments. You could study a language as breadth, opening up opportunities for a global biomedical career. You could take breadth in psychology, helping you understand the complexities of mental health. Or study writing and communications as breadth, giving you the skills to promote your research to the general public.
The Bachelor of Biomedicine has allowed me to explore various avenues of study and the careers that can stem from these. I have been involved in a wide range of activities, some of which I would never have contemplated while I was in school. In second year I scored a job with Melbourne University Sustainability Services and was accepted as a volunteer at the Royal Children’s Hospital.”

Tom Bailey (Australia)
Bachelor of Biomedicine, major in Neuroscience

**BACHELOR OF BIOMEDICINE**

**Duration**
3 years full time
Part time available (domestic students only)

**Campus**
Parkville

**Entry**
Semester 1 (February)

**Entry requirements**

**Domestic students**
Minimum entry 2019: ATAR 96.00, IB 38

**International students**
International applicants will need to meet the academic admission and English language requirements. Visit: futurestudents.unimelb.edu.au

Prerequisite subject study areas
English, chemistry and mathematics

For full details of entry requirements and information for other qualifications, visit: coursesearch.unimelb.edu.au

**Contact hours**
(first year, full time)
Approximately 15–20 hours per week plus independent study time of approximately 10–15 hours per week

CRICOS: 058838G

**Find out more**

mdhs-study.unimelb.edu.au/degrees/ bachelor-of-biomedicine
BIOMEDICINE MAJORS

BIOCHEMISTRY AND MOLECULAR BIOLOGY

The disciplines of biochemistry and molecular biology have fuelled rapid advances in medical research and biotechnology, and encompass knowledge and practices that can be applied in many fields. The Biochemistry and Molecular Biology major emphasises the practical skills required for a career as a laboratory scientist. This major will develop your knowledge in basic biological processes and the more specialised area of molecular science. It also provides a springboard to careers in agricultural and medical support industries and education.

BIOENGINEERING SYSTEMS

Biomedical engineering is an exciting fusion of engineering, science and medicine. It is one of the fastest growing areas of engineering today. You will focus on human systems, the design and operation of devices and processes, and the application of engineering skills to new medical treatments, instruments and machines. Our biomedical engineers and students are working on groundbreaking innovations such as the bionic eye, devices to control epilepsy and more efficient drug delivery systems. The Bioengineering Systems major is a pathway to further study in the Master of Engineering (Biomedical) or (Biomedical with Business), honours and PhD programs for accredited professional or scientific research careers in biomedical engineering. See page 14.

BIOTECHNOLOGY

Biotechnology is the use of biological knowledge to develop new processes and products for use in industry, health, agribusiness and other areas of human technology. Advances in biotechnology are based on knowledge from biological sciences, chemical sciences, physical sciences and engineering. You can tailor your Biotechnology major to suit your needs, and concurrently build on your other science studies. For example, agricultural biotechnology will normally involve some core crop and food technology subjects. Molecular biotechnology will usually involve some core molecular biology subjects.

SAMPLE COURSE PLAN – BACHELOR OF BIOMEDICINE

MAJOR IN CELL AND DEVELOPMENTAL BIOLOGY

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Biopolymers and Cells</th>
<th>Experimental Design and Data Analysis</th>
<th>Chemistry for Biomedicine</th>
<th>Wellbeing, Motivation and Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester 2</td>
<td>Genes and Environment</td>
<td>Mathematics for Biomedicine</td>
<td>Physics for Biomedicine</td>
<td>Our Planet, Our Health</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>Molecular and Cellular Biomedicine</td>
<td>Techniques in Molecular Science</td>
<td>Evolution: Making Sense of Life</td>
<td>Relating Health and Learning</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Human Structure and Function</td>
<td></td>
<td></td>
<td>AUSLAN and Visual Communication</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>Biomedicine: Molecule to Malady</td>
<td>Concepts in Cell and Developmental Biology</td>
<td>Functional Genomics and Bioinformatics</td>
<td>Ethics, Gender and the Family</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Frontiers in Biomedicine</td>
<td>Developmental Biology</td>
<td>Stem Cells in Development and Regeneration</td>
<td>Mind and Madness</td>
</tr>
</tbody>
</table>

- This is a sample course plan only. Cell and Developmental Biology is a very flexible major and a number of alternative subjects are available. Subjects offered may change from year to year. You will be advised of current subject offerings prior to subject selection and enrolment.
- The breadth subjects featured in this plan are examples only. You must complete at least four breadth subjects in this degree.
GENETICS
A Genetics major includes studies in molecular genetics, human genetics, evolutionary genetics and genomics – key foundational knowledge for studies in the fields of biology, biomedical sciences, biotechnology, ecology and conservation. You’ll also develop skills in experimental design, data recording and analysis, and scientific writing.

HUMAN STRUCTURE AND FUNCTION
The Human Structure and Function major examines how the human body works, and the relationship between human physiology (function) and anatomy (structure). The subjects carefully integrate anatomy and physiology, and introduce relevant elements from pathology, pharmacology and zoology.

IMMUNOLOGY
Through this major, you will learn how immunology – the study of the human immune system – can apply to a range of areas in the biomedical sciences. It opens up careers in epidemiology, diagnostics, molecular biology, biotechnology, vaccinology, biosafety and regulation. It also provides a pathway to graduate research into infectious agents, their genes, the underlying mechanisms of infectious disease, and diseases associated with the immune system. It lays the foundation for further study in medicine and paramedical disciplines.

MICROBIOLOGY AND IMMUNOLOGY
This major combines the study of infectious microbial agents – predominantly bacteria and viruses – with the study of immune response. The major opens up careers in epidemiology, diagnostics, molecular biology, biotechnology, vaccinology, antimicrobial chemotherapeutics, biosafety and regulation.

SAMPLE COURSE PLAN – BACHELOR OF BIOMEDICINE● MAJOR IN MICROBIOLOGY AND IMMUNOLOGY

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Biocelluloses</th>
<th>Experimental Design and Data Analysis</th>
<th>Chemistry for Biomedicine</th>
<th>Science and Pseudoscience</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester 2</td>
<td>Genes and Environment</td>
<td>Mathematics for Biomedicine</td>
<td>Physics for Biomedicine</td>
<td>Sustainability in Developing Communities</td>
</tr>
<tr>
<td></td>
<td>Semester 1</td>
<td>Molecular and Cellular Biomedicine</td>
<td>Techniques in Molecular Science</td>
<td></td>
<td>Relating Health and Learning</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Human Structure and Function</td>
<td>Microbes, Infections and Responses</td>
<td></td>
<td>Drugs that Shape Society</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>Biomedicine: Molecule to Malady</td>
<td>Medical Microbiology: Bacteriology</td>
<td>Principles of Immunology</td>
<td>Global Health, Security and Sustainability</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Frontiers in Biomedicine</td>
<td>Medical Microbiology: Virology</td>
<td>Techniques in Immunology</td>
<td>Living Longer: A Global Diagnosis</td>
</tr>
</tbody>
</table>

Core subjects | Major subject | Selective subject | Breadth subject●

● This is a sample course plan only. Subjects offered may change from year to year. You will be advised of current subject offerings prior to subject selection and enrolment.
● The breadth subjects featured in this plan are examples only. You must complete at least four breadth subjects in this degree.
NEUROSCIENCE

Neuroscience is one of the largest areas of study within the sphere of modern biology. Australian neuroscience research has had significant international impact. Students completing a Neuroscience major will understand the fundamental organisational and functional principles of the nervous system – from the biology of nerve cells and neural circuits, through to neural systems and complex behaviours. You will gain an overview of modern neuroscience and how it interacts with molecular and cell biology, physiology, psychology, and cognitive and information science.

PATHOLOGY

A Pathology major integrates knowledge in a range of disciplines from human biology to molecular genetics. In this major you will develop a broad and solid understanding of disease from a molecular, cellular, tissue, functional, biochemical and immunological perspective. You will complete sequences of specialist and integrated subjects and apply current molecular and genetic methods to problems in pathological and medical practice.

PHARMACOLOGY

Pharmacology studies the interactions between drugs and living systems. Pharmacologists develop new drugs, determine how drugs act, and use drugs to discover the inner workings of cells. The discipline of pharmacology stands at the intersection of many areas of biomedical science. You will gain an in-depth understanding of drug actions and a broad appreciation of the scientific process of knowledge acquisition and problem-solving.

PHYSIOLOGY

The Physiology major teaches you how the body works. You will learn how cells, organs and the whole body function. You will examine disturbances in whole-body systems, such as those relating to the endocrine, cardiovascular, musculoskeletal, developmental and neural control systems. The experimental bases of physiology are emphasised and you will use contemporary techniques to explore questions in this field. Discoveries in physiology have a broad effect on health and medicine, environmental science, industry, nutrition, exercise and reproductive biology. Many of the discoveries from the Human Genome Project rely on physiology to understand their effect on the human body.

SAMPLE COURSE PLAN – BACHELOR OF BIOMEDICINE

MAJOR IN PATHOLOGY

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Biomolecules and Cells</th>
<th>Experimental Design and Data Analysis</th>
<th>Chemistry for Biomedicine</th>
<th>Critical Thinking with Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester 2</td>
<td>Genes and Environment</td>
<td>Mathematics for Biomedicine</td>
<td>Physics for Biomedicine</td>
<td>Aboriginalities</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>Molecular and Cellular Biomedicine</td>
<td>Techniques in Molecular Science</td>
<td>Human Structure and Function</td>
<td>Relating Health and Learning</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Biomedicine: Molecule to Malady</td>
<td>Mechanisms of Human Disease</td>
<td>Experimental Pathology</td>
<td>Body, Mind and Medicine: A Dissection</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>Biomedicine: Molecule to Malady</td>
<td>Mechanisms of Human Disease</td>
<td>Techniques for Investigation of Disease</td>
<td>Leading Change in a Complex World</td>
</tr>
<tr>
<td></td>
<td>Semester 2</td>
<td>Frontiers in Biomedicine</td>
<td>Frontiers in Human Disease</td>
<td>Advanced Investigation of Human Disease</td>
<td>Living Longer: A Global Diagnosis</td>
</tr>
</tbody>
</table>

Core subjects | Major subject | Selective subject | Breadth subject

This is a sample course plan only. Subjects offered may change from year to year. You will be advised of current subject offerings prior to subject selection and enrolment.

The breadth subjects featured in this plan are examples only. You must complete at least four breadth subjects in this degree.
“The Bachelor of Biomedicine has fostered in me a profound appreciation for science and health as a deeply intertwined, and a rapidly progressing field. Majoring in pathology allowed me to explore this in the lab, and further my skills in scientific writing.”

Sarah Jackson (Australia)
Bachelor of Biomedicine, major in Pathology
CONCURRENT DIPLOMAS

Concurrent diplomas offer another way to develop your interests and discover new opportunities outside of your chosen degree.

FLEXIBLE STUDY OPTIONS
Our diplomas give you many flexible options to enrich and broaden your studies – and if you’re an undergraduate domestic student, you may be eligible to receive the final half of the diploma HECS free. You can study a diploma alongside your undergraduate degree (adding a further year of study), or cross-credit up to 50 points (four subjects) of study in your undergraduate degree and your diploma, enabling you to complete the degree and the diploma within 3.5 years.

High-achieving students may be able to complete their degree and diploma within three years. Conditions apply, and you should discuss your options with a course adviser once you enrol in your undergraduate degree.

DIPLOMA IN LANGUAGES
Languages available: Ancient Greek, Arabic, Chinese, French, German, Hebrew, Indonesian, Italian, Japanese, Latin, Russian and Spanish.

Available to:
Students enrolled in Arts, Biomedicine, Commerce, Design, Music and Science.

Prerequisites
If you are applying for a Diploma in Languages other than in Ancient Greek, Hebrew or Latin and have not studied your chosen language at the University, you are required to take a Language Placement Test.

ba.unimelb.edu.au/enrich/diploma-languages

DIPLOMA IN MATHEMATICAL SCIENCES
The Diploma in Mathematical Sciences enables you to gain a mathematics qualification while completing an undergraduate degree.

Available to:
Students enrolled in Arts, Biomedicine, Commerce, Design, Music and Science.

Prerequisites
A study score of 30 in VCE Specialist Mathematics Units 3 and 4 or equivalent, or successful completion of university-level studies equivalent to VCE Specialist Mathematics Units 3 and 4.

courses.science.unimelb.edu.au/study/degrees/diploma-in-mathematical-sciences

DIPLOMA IN MUSIC
The Diploma in Music provides the opportunity to further your musical training or explore areas of academic and practical interest in music, while gaining a music qualification alongside your undergraduate studies in another field. The program can be tailored depending on your interests, and provides access to the full range of Conservatorium options.

Available to:
Students enrolled in Arts, Biomedicine, Commerce, Design and Science.

Prerequisites
There are no additional prerequisites once you are enrolled in your undergraduate degree. Some ensemble subjects require an audition, and entry to the music performance stream – involving individual instrumental or vocal lessons – is by recorded audition, submitted in early February.

ba.unimelb.edu.au/enrich/diploma-music
YOUR NETWORK

The University of Melbourne is located within the city’s leading biomedical research precinct. As a student here, you can join our pioneering academics in the search for solutions to today’s most challenging problems.

YOUR TEACHERS
As Australia’s leading university, we attract outstanding staff who come to collaborate, learn and teach with the very best. You will be taught by some of the country’s foremost biomedical practitioners and researchers, known globally for their contribution to their fields.

YOUR PEERS
The Bachelor of Biomedicine attracts some of the brightest students in the country, and the world. You will be part of a close-knit community of inspiring, high-achieving peers who share common goals, will study and enjoy university life alongside you and motivate you to do your best.

YOUR ALUMNI
You’ll become part of a worldwide network of healthcare professionals and researchers at the top of their industries. You may even choose to join many of them working in the Melbourne Biomedical Precinct.

YOUR CITY
You’ll be part of a learning environment embedded within Parkville’s world-class biomedical community – almost a city in itself – where you’ll encounter the latest skills, techniques and research helping to shape the future of healthcare globally.

See Your Campus, page 16.

YOUR FACILITIES
The Bio21 Molecular Science and Biotechnology Institute is one of the largest biotechnology research centres in Australia. The Brain Research Institute (Neuroscience), Peter Doherty Institute (Microbiology and Immunology) and Victoria Comprehensive Cancer Centre (VCCC) bring together the most innovative minds – researchers, clinicians and teachers – to collaborate in solving global problems and educating future generations.

1 Academic Ranking of World Universities 2017 and Times Higher Education World University Rankings 2018.
A major in Bioengineering Systems in the Bachelor of Biomedicine can lead you to graduate studies in the country’s top-ranking Melbourne School of Engineering.

**BE IN DEMAND**
Qualified engineers are in high demand. As an engineering graduate, you’ll have a vast range of interesting and well-paid employment opportunities around the world.

**STUDY ENGINEERING AT MELBOURNE**
To become a professionally accredited engineer you’ll complete a three-year undergraduate degree with an engineering major, followed by a two-year Master of Engineering.

A major in Bioengineering Systems leading to a Master of Engineering (Biomedical) or Master of Engineering (Biomedical with Business) is ideal if you’re looking to complement your technical skills with medical knowledge and take up a career in biomedical engineering.

**PROFESSIONAL RECOGNITION**
The Master of Engineering is the first degree in Australia to be accredited by both Engineers Australia and EUR-ACE® in Europe.

---

1. **STEP 1: CHOOSE THE BACHELOR OF BIOMEDICINE (3 YEARS)**
   - Major in Bioengineering Systems

2. **STEP 2: CHOOSE GRADUATE STUDY IN ENGINEERING (2 YEARS)**
   - Master of Engineering (Biomedical)
   - Master of Engineering (Biomedical with Business)

3. **STEP 3: EMPLOYMENT AS A PROFESSIONAL (ACREDITED) ENGINEER**

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*QS World University Rankings by Subject 2018.
*The Master of Engineering (Biomedical with Business) is provisionally accredited by Engineers Australia until sufficient students graduate from the program.*
Will Abbott (Australia) took part in the BioDesign Innovation subject, where biomedical engineering students work with Master of Business Administration students to create a prototype and a supporting business plan.

“Our team worked on a device to use 3D motion capture technology to improve the quality of individual rehabilitation. Our project involved visiting St Vincent’s Hospital, giving us real-world experience in developing a medical device and taking it to market.”
At the University’s Parkville campus you’ll learn in a stimulating environment located within the Melbourne Biomedical Precinct – a major global research and teaching powerhouse delivering outstanding healthcare, education and world-class research. The University’s research centres within the precinct include:

1. Peter Doherty Institute – named after Melbourne scholar and Nobel Laureate Professor Peter Doherty AC. This institute offers boundless opportunities for groundbreaking research into immunity and infection.

2. Victorian Comprehensive Cancer Centre – bringing together Australia’s best cancer research, teaching and treatment institutions, as a world-leading centre of cancer research and patient care.

3. Melbourne Brain Centre – home to more than 700 of Australia’s leading neuroscience researchers and teachers.

4. Bio21 Institute – a flagship multidisciplinary research facility with specialised platform technologies in medical, agricultural and environmental biotechnology and nano-biotechnology.

5. University of Melbourne Medical Building – home to the Melbourne Medical School.

6. Walter and Eliza Hall Institute of Medical Research

7. Royal Melbourne Hospital

8. Royal Women’s Hospital
Going to uni is more than just attending lectures and completing assignments. Enrich your academic experience by exploring all the opportunities available to you as a University of Melbourne Biomedicine student.

CLUBS AND SOCIETIES
Clubs can be an integral part of your student experience and a great way to meet like-minded people. There are more than 200 to choose from so you’re guaranteed to find one that interests you.

The Biomedicine Students’ Society is one of the most active on campus. You can get involved in academic and social activities designed to complement your studies and help you form friendships across all year levels. You could be mentored by senior students, attend free BBQs and film screenings, join an academic study group or make unforgettable memories at the annual Biomed Camp.

GLOBAL OPPORTUNITIES
Study abroad and exchange helps you explore the world, expand your cultural horizons and experience biomedicine in an international context among students and academics from around the world. The University has partnerships with some of the top universities in the world, enabling you to contribute overseas as well as in Australia.

EVENTS AND CONFERENCES
We welcome some of the world’s leading biomedical experts to the University of Melbourne each year to deliver an exciting series of lectures and seminars. You’ll keep abreast of the latest breakthroughs globally and be able to apply your learning to your own work.

UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM (UROP)
UROP is a casual employment scheme designed to give you an early opportunity to experience life in a research laboratory and get an insight into careers in biomedical research. You’ll undertake a project within a biomedical research laboratory alongside other research staff and students in the team, supervised by a research scientist in a mentoring role.

BIOMEDICAL SCIENCE RESEARCH PROJECT
The Biomedical Science Research Project allows you to undertake a project in a discipline within the School of Biomedical Sciences, helping you to develop practical scientific skills. It’s a great way to experience the research process if you’re considering honours, masters or a PhD following your undergraduate study.

LEADERSHIP AND NETWORKING
Employers love to see leadership experience on your resume – and we love to help you get it! Lead a student group, direct a play, mentor a younger student or take a leadership role in the Biomedicine Students’ Society.

RURAL VOLUNTEERING PROGRAM
If you receive the Melbourne Chancellor’s Scholarship (see page 18) you’ll have the chance to participate in the Rural Volunteering Program. You’ll travel with a fellow student to a small rural or regional town where you’ll take part in a range of volunteering activities and community projects.

CAREER AND GRADUATE PATHWAY ADVICE
The Student Support Team at the Health Hub offers a drop-in service for all students wishing to know more about their graduate study options. They can offer advice and support to help you achieve your study ambitions.
The Melbourne Scholarships Program is one of the most comprehensive and generous in Australia. With over 1200 scholarships available for new and current students – including domestic and international students – there's likely to be at least one that you are eligible for.

For many of our undergraduate scholarships we’ll assess your eligibility when you apply for your course, so you don’t need to put in a separate application.

As well as starting out with a University scholarship behind you, there are several prizes for academic achievement on offer for Biomedicine students through the School of Biomedical Sciences.

Below, we’ve highlighted one of our most prestigious scholarships for school leavers, but you can check out what we have to offer and find the right scholarship for you at:

scholarships.unimelb.edu.au

MELBOURNE CHANCELLOR’S SCHOLARSHIP

The Melbourne Chancellor’s Scholarship is awarded to talented undergraduate students in recognition of their outstanding academic achievement during their Australian Year 12 or International Baccalaureate (IB).

You deserve the rewards

Would you like to begin your Bachelor of Biomedicine degree at the University with the security of knowing a graduate place is reserved for you when you finish?

If you’re studying Year 12 in Australia or are an Australian citizen studying an Australian Year 12 or IB overseas, you could be eligible for our Melbourne Chancellor’s Scholarship.

Benefits

For domestic students:

- HECS student contribution exemption for the full duration of a Commonwealth Supported Place in an undergraduate degree and a concurrent diploma
- Living allowance for the standard full-time duration of the undergraduate degree and concurrent diploma with a value of:
  - $5000 per year if you completed high school in Victoria
  - $10 000 per year if you completed high school outside Victoria.
- Melbourne Global Scholars Award for an approved period of overseas study as an exchange or study abroad student
- Guaranteed Commonwealth Supported Place in a professional masters degree if you meet the prerequisite and entry requirements for the masters.

For international students:

- A 50 per cent tuition fee remission for the standard full-time duration of an undergraduate degree
- Melbourne Global Scholars Award for an approved period of overseas study as an exchange or study abroad student
- Guaranteed international full fee place in a professional masters degree if you meet the prerequisite and entry requirements for the masters.

Eligibility

To be considered for this scholarship, you must:

- Be one of the following:
  - A domestic or international student who completed an Australian Year 12 or the IB in Australia, or
  - An Australian citizen who completed an Australian Year 12 or the IB outside Australia.
- Have applied for a University of Melbourne undergraduate course via VTAC for commencement in the year following completion of an Australian Year 12 or IB.
- Not have previously undertaken any tertiary studies (excluding extension studies completed as part of a Year 12 program).

Selection

The Melbourne Chancellor’s Scholarship is awarded on the basis of merit and guaranteed to all students who satisfy the undergraduate course prerequisites and:

- Achieve an ATAR of at least 99.90, or
- Intend to undertake the Bachelor of Music and achieve an ATAR of at least 99.85 and achieve an audition score of A+, or
- Are of Indigenous Australian descent and achieve an ATAR of at least 90.00.

Application

Eligible students who have applied for admission to the University via VTAC will be automatically considered.

Outcome

The first offers are made a few days after the Victorian Year 12 ATAR results are released in December. Further offers are made in January and February to students who have completed the IB or Year 12 outside Victoria.

Scholarship offers do not represent an offer for admission to a University of Melbourne undergraduate degree. Course offers are made separately through VTAC.

chancellorscholars.unimelb.edu.au

Some exclusions apply. For a list of applicable courses, go to: chancellorscholars.unimelb.edu.au
ACCESS MELBOURNE

Access Melbourne is the University of Melbourne's special entry and equity program for domestic students.

Access Melbourne can help you gain a place in the Bachelor of Biomedicine, or one of our other undergraduate degrees, even if your ATAR is below the selection rank normally required for an offer (subject to course prerequisites). You may also be eligible for guaranteed entry or an Access Scholarship.

We also have scholarships and grants that can ease the financial load, and a housing program to get you securely settled close to campus.

In 2018, 30 per cent of our domestic undergraduate students were eligible for Access Melbourne, and demonstrated that, because of personal circumstances, their ATAR was not fully reflective of their real potential.

ACCESS SCHOLARSHIPS

Approximately 200 Access Melbourne students every year also receive an allowance of $5000 per year (paid in half-yearly instalments) for the normal, full-time duration of the course, and every Indigenous student who enrols in Semester 1 2019 is guaranteed one of these scholarships.

We also offer a tuition waiver of up to $30,500 for 10 high-achieving Access Melbourne students per year. Plus, if you live in regional Victoria or interstate, the University will reserve a place in a residential facility close to our Parkville campus for the first year of your studies.

HOW TO APPLY

Lodge a Special Entry Access Scheme (SEAS) application via VTAC at vtac.edu.au for one or more of the following Access Melbourne categories:

- Disadvantaged financial background
- Applicants from rural or isolated areas
- Under-represented school
- Difficult circumstances
- Disability or medical condition
- Non-English speaking background
- Recognition as an Indigenous Australian
- Mature-age consideration (non-school leaver entry pathway).

GET A GUARANTEED PLACE

If you're from a rural or isolated area, have a disadvantaged financial background or are an Indigenous Australian, you could be eligible for a guaranteed place.

For 2018, the guaranteed ATAR for Biomedicine via Access Melbourne was 92.00 (85.00 for Indigenous students). Guaranteed ATARs for entry in 2019 will be published in June 2018 at:

access.unimelb.edu.au

PATHWAY TO BIOMEDICINE

If you're a domestic student, you could be eligible for a guaranteed place in the Bachelor of Biomedicine if you complete the one-year Diploma in General Studies course with an average score of 75. The program, based at Dookie campus, gives you the opportunity to study science, commerce, design or agriculture. To be eligible for the guarantee you must also be eligible for Access Melbourne at the time you apply for the diploma.

fvas.unimelb.edu.au/digs

Percentage is based on start-year intake.

The offer does not include the cost of the accommodation. Places are limited, so apply early to avoid disappointment.
The Bachelor of Biomedicine provides the solid foundation necessary to prepare students for health-related and other graduate professional programs, as well as specialised graduate research.

**HEALTH SCIENCES**
Many Biomedicine graduates undertake graduate study leading to professional careers in the health sciences.

**A CAREER IN BIOMEDICAL RESEARCH**
You can also pursue a career in biomedical research by undertaking a research higher degree (masters or PhD).

**A CAREER IN THE BIOMEDICAL SCIENCES**
Depending on your major you could pursue the following career opportunities:

- **Biochemistry and Molecular Biology**
  - Medical research, biotechnology, agricultural and medical support industries, education
- **Bioengineering Systems**
  - Clinical engineering, research and development in medical technology
- **Biotechnology**
  - Food technician roles, forensic science, human technology, agribusiness
- **Cell and Developmental Biology**
  - Diagnostic laboratories, government agencies, medico-legal industry
- **Genetics**
  - Conservation, genetic counselling, teaching, forensic science, publishing
- **Human Structure and Function**
  - Hospital and university research, scientific journalism, pharmaceutical consultancy, teaching
- **Immunology**
  - Infectious diseases, diagnostics, molecular biology, biotechnology, vaccinology, biosafety and regulation
- **Microbiology and Immunology**
  - Infectious diseases, diagnostics, molecular biology, biotechnology, vaccinology, antimicrobial chemotherapeutics, biosafety and regulation
- **Neuroscience**
  - Drug development, neuropsychology, audiology, neurochemistry, brain imaging
- **Pathology**
  - Pharmaceuticals, military, biomedical and biotechnology consulting, research
- **Pharmacology**
  - Drug development and testing, clinical trials, Alzheimer’s and AIDS research, sales, marine pharmacology
- **Physiology**
  - CSIRO research, sports science, biomedical technician, medico-scientific communication, cardiac rehabilitation

**A CAREER IN A RELATED AREA**
With further study, the Bachelor of Biomedicine can also lead to a career in:

- Biomedical engineering
- Business and management
- Commercialisation of inventions
- Journalism
- Law
- Public service
- Science communication
- Teaching.
Emma Chen (China) was supported during her Bachelor of Biomedicine degree by a Melbourne International Undergraduate Scholarship. Her studies were enriched by a three-month special research scholarship to Vanderbilt University in Nashville, USA. Emma, who majored in Pharmacology, went on to study the Doctor of Medicine and then took up an internship with the Royal Melbourne Hospital.

“The basic science aspect of the Pharmacology major is a great foundation for those who are research-oriented, while the clinical application side of it is the perfect foundation for those who are looking at pursuing medicine.”
"Studying the Bachelor of Biomedicine exposed me to a variety of different areas in the health sciences, which inspired me to delve further into the neural aspects of vision through the graduate optometry program."

Kieren Do (Australia)
Graduate study is an investment in your future. Choose Melbourne, and join the best and brightest students to pursue your passion and develop your career.

HONOURS

Honours is a fourth year of study that draws together the theory and practical skills you’ve gained in your undergraduate degree. An honours year enables you to develop research and professional skills and explore your particular interest in depth. It comprises an individual research project designed to extend your knowledge and problem-solving skills, as well as classes and assignments at an advanced level. Honours can be a pathway to a research higher degree, such as a Masters by Research or PhD.

GRADUATE STUDY

We believe that personal satisfaction and career success are inextricably linked. That’s why we encourage you to become a master of your chosen field through specialist graduate study following your undergraduate degree.

In the competitive global employment market, a graduate qualification sets you apart as someone who is looking to advance and lead, backed by skills and knowledge to succeed.

SPOTLIGHT ON GRADUATE PATHWAYS FROM BIOMEDICINE

Doctor of Medicine (MD)
The MD program provides advanced clinical and academic training that helps graduates differentiate themselves in their medical career as well as face the challenges of a rapidly evolving healthcare sector. Through an innovative curriculum, students get to enjoy interactions with world-class bioscientists and clinicians in the best teaching and learning facilities within the University and associated hospitals.

Doctor of Dental Surgery (DDS)
The DDS degree leads to registration as a dentist with the Dental Practice Board in Australia and New Zealand. Through lectures, hands-on pre-clinical classes, a research project and direct patient care, students will graduate with advanced knowledge of all aspects of oral healthcare provision as well as advanced clinical skills.

GUARANTEED ENTRY

Pathways based on your secondary school and university performance

In addition to making you an undergraduate course offer, the University can also guarantee you a place in the graduate course of your choice, so you’ll have the added security of knowing a place is reserved for you. If you complete secondary school in Australia, guaranteed entry is available for most graduate degrees, depending on the ATAR/notional ATAR you achieve.

Pathways based on university performance only

Guaranteed pathways to graduate study are available to all students who complete their undergraduate degree at the University of Melbourne. Eligibility is based on your performance in your undergraduate degree, and completion of prerequisite subjects (if any).

MORE GRADUATE OPTIONS

The University also offers a range of other graduate degrees outside the sciences and health sciences fields, including:

- Executive Master of Arts
- Juris Doctor (Law)
- Master of Architecture
- Master of Energy Systems
- Master of Journalism
- Master of Teaching
- Master of Urban Planning.

See pages 24–28 for some popular career pathways from Biomedicine. For a full list of our graduate degrees visit: coursesearch.unimelb.edu.au/grad

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**ATAR OF 99.90+**

A guaranteed place in the graduate degree of your choice, subject to meeting the prerequisites. The guarantee applies to our professional entry masters degrees, including the University’s flagship graduate degrees such as the Juris Doctor (Law), Doctor of Medicine, Master of Engineering and Master of Architecture.

No minimum grade is required in your undergraduate degree.

You may also be eligible for the Melbourne Chancellor’s Scholarship for your undergraduate degree – see page 18.

**ATAR OF 94.00–99.85**

You may be eligible for a range of other guarantees, including for the Master of Teaching, Master of International Relations and Master of Food Science. To see all your options, go to: futurestudents.unimelb.edu.au/guaranteed-entry

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1. The guaranteed entry pathways outlined on this page are available to domestic and international students who complete an Australian Year 12 or the International Baccalaureate (IB) in Australia in 2018. Eligible students must enrol in a University of Melbourne undergraduate degree immediately following Year 12, or be granted a deferral by the University.
2. Domestic students applying for the Master of Engineering, Information Systems or Information Technology who complete a University bachelors degree and meet course entry requirements with a weighted average mark of at least 65% are guaranteed a CSP regardless of their ATAR.
3. Some exclusions apply. For the list of applicable courses, see: futurestudents.unimelb.edu.au/guaranteed-entry
PATHWAYS TO PROFESSIONAL CAREERS

Did you know that, on average, Australians with a graduate degree earn $26 000 more than those with an undergraduate degree? And many employers prefer to promote those with a graduate qualification.

The Melbourne Model offers a true graduate school experience, with over 400 courses to choose from including law, engineering, medicine, architecture, psychology and teaching – just to name a few!

A professional graduate degree can be a life-changing option, equipping you with specialised cognitive and technical skills – and an internationally recognised qualification.

Flexibility and choice are at the heart of the Melbourne Model. We’ve provided you with some examples of popular pathways here, but these are just a small sample of the hundreds of undergraduate and graduate study combinations you can follow. Which means you can ensure your pathway will set you up to be the specialist that employers need.

To view our full suite of graduate courses, visit: coursesearch.unimelb.edu.au/grad

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To view our full suite of graduate courses, visit: coursesearch.unimelb.edu.au/grad

MEDICINE

UNDERGRADUATE DEGREE

With prerequisite subjects

3 years

GRADUATE DEGREE

Doctor of Medicine

4 years

YOUR CAREER

Doctor

Entry requirements

• An undergraduate degree including prerequisite studies in anatomy, physiology and biochemistry at second-year level (or equivalent) within 10 years of commencing the Doctor of Medicine
• Completion of the Graduate Australian Medical School Admissions Test (GAMSAT). International students residing outside Australia at the time of application may choose to take the Medical College Admissions Test (MCAT) instead of the GAMSAT.
• Shortlisted candidates will be invited for a multi-mini interview

mdhs-study.unimelb.edu.au/degrees/doctor-of-medicine

DENTAL SURGERY

UNDERGRADUATE DEGREE

With prerequisite subjects

3 years

GRADUATE DEGREE

Doctor of Dental Surgery

4 years

YOUR CAREER

Dentist

Entry requirements

• An undergraduate degree including prerequisite studies in anatomy, physiology and biochemistry at second-year level (or equivalent) within 10 years of commencing the Doctor of Dental Surgery
• Completion of the Graduate Australian Medical School Admissions Test (GAMSAT). International students residing overseas may choose to sit one of the following in place of the GAMSAT: US DAT, Canadian DAT, UK GAMSAT or BMAT


OPTOMETRY

UNDERGRADUATE DEGREE

With prerequisite subjects

3 years

GRADUATE DEGREE

Doctor of Optometry

4 years

YOUR CAREER

Optometrist

Entry requirements

• An undergraduate degree, or a graduate diploma, master or PhD degree, or equivalent, with studies to have been completed within 10 years of commencing the Doctor of Optometry, and
• Three subjects at level 2 or level 3 (or equivalent) from one or more relevant biological science disciplines, with subjects to have been completed within 10 years of commencing the Doctor of Optometry, and
• Completion of the Graduate Australian Medical School Admissions Test (GAMSAT). International students residing outside Australia at the time of application may choose to take the Medical College Admissions Test (MCAT) or the Optometry Admission Test (OAT) (USA), instead of the GAMSAT.

mdhs-study.unimelb.edu.au/degrees/doctor-of-optometry

Postgraduate Destinations 2015, Graduate Careers Australia.
## Undergraduate Degree

Science, or any health-related undergraduate degree, including biomedicine

3 years

## Graduate Degree

### Biostatistics

Master of Biostatistics

1.5 years

### Clinical Audiology

Master of Clinical Audiology

2 years

### Nursing

Master of Nursing Science

2 years

### Genetic Counselling

Master of Genetic Counselling

2 years

## Entry Requirements

### Biostatistics

- An undergraduate degree in a relevant discipline, such as statistics, mathematics, science, psychology, medicine, pharmacy, health sciences or economics, with a weighted average mark of at least H2B (70%)
- Successful completion (result of at least H3 or 65%) at the tertiary level of at least one mathematics subject, including elements of multivariable calculus and linear algebra

mdhs-study.unimelb.edu.au/degrees/master-of-biostatistics

### Clinical Audiology

- An undergraduate degree in science or health-related discipline or other relevant degree

### Nursing

- A three-year undergraduate degree in any discipline, or equivalent, completed not more than 10 years prior to the date of application, or
- An older undergraduate degree, plus either: more recent graduate study that demonstrates current capacity for graduate study, or five years of documented relevant work experience
- Applicants are assumed to have some grounding at a tertiary level in human anatomy. Students without such grounding can take the online subject Introductory Human Physiology to prepare for the course.

mdhs-study.unimelb.edu.au/degrees/master-of-nursing-science

### Genetic Counselling

- An undergraduate degree in a cognate discipline such as science, biomedical science, health science, social work, psychology, medicine, or related discipline, or
- An undergraduate degree and documented relevant work experience including clear evidence of career development, professional writing, and professional achievement or practice comparable to that expected of undergraduate degree holders in cognate disciplines, and
- Prerequisite studies in biology to first-year undergraduate level and genetics to second or third-year undergraduate level, or equivalent, and
- Relevant voluntary/paid work experience in providing peer/counselling support to others at times of need or crisis, and
- A 1000-word personal statement, and
- Two or three written references from relevant referees

mdhs-study.unimelb.edu.au/degrees/master-of-genetic-counselling
PATHWAYS TO PROFESSIONAL CAREERS

GENOMICS AND HEALTH

UNDERGRADUATE DEGREE
Science, health sciences, social work, psychology, medicine, or related discipline with prerequisite subjects
3 years

GRADUATE DEGREE
Master of Genomics and Health
2 years

YOUR CAREER
Employment across a broad range of health fields

PHYSIOTHERAPY

UNDERGRADUATE DEGREE
With prerequisite subjects
3 years

GRADUATE DEGREE
Doctor of Physiotherapy
3 years

YOUR CAREER
Physiotherapist

RESEARCH

UNDERGRADUATE DEGREE
Any undergraduate degree
3 years

HONOURS
1 year

GRADUATE DEGREE
Master of Philosophy
1.5–2 years
Doctor of Philosophy
3–4 years

YOUR CAREER
Researcher

Entry requirements
- An undergraduate degree in a cognate discipline such as science, health science, social work, psychology, medicine, or related discipline, with a weighted average mark of at least H3 (65%) or equivalent, and
- Prerequisite studies in biology to first-year undergraduate level, or equivalent, or
- Six years of documented relevant work experience in a cognate discipline, and
- Prerequisite studies in biology to first-year undergraduate level, or equivalent, or
- An undergraduate degree in any discipline, or equivalent, with a weighted average mark of at least H3 (65%), or equivalent, and
- At least two years of documented relevant work experience, and
- Prerequisite studies in biology to first-year undergraduate level, or equivalent

Entry requirements
- An undergraduate degree including approved prerequisite studies in human anatomy and human physiology at second-year level, or equivalent (one subject of each), within the 10 years prior to commencing the Doctor of Physiotherapy
- Shortlisted candidates will be invited for a multi-mini interview

Entry requirements
- An undergraduate degree with either an honours year or a masters degree with a substantial research component equivalent to at least 25 per cent of one year’s full-time study
- In the Faculty of Medicine, Dentistry and Health Sciences, the minimum entry standard is H1 (80%) or equivalent

futurestudents.unimelb.edu.au/info/research

Duration may vary according to the type of degree.

mdhs-study.unimelb.edu.au/degrees/doctor-of-physiotherapy

mdhs-study.unimelb.edu.au/degrees/master-of-genomics-and-health
Adding fourth-year honours to his Bachelor of Biomedicine paved the way for Nicholas Gherardin’s PhD in Immunology at the University’s prestigious Peter Doherty Institute for Infection and Immunity.

Nick’s PhD studies earned him a number of awards, including as a finalist in the Victorian Premier’s Award for Health and Medical Research. Now a Postdoctoral Research Fellow at the Institute, he studies the fundamental biology of the human immune system and its role in cancer.

“I never anticipated becoming a research scientist, but my experience in the Bachelor of Biomedicine opened my eyes to a career pathway I knew very little about, and I haven’t looked back!”
## Pathways to Professional Careers

### Social Work

<table>
<thead>
<tr>
<th>Undergraduate Degree</th>
<th>Graduate Degree</th>
<th>Your Career</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any undergraduate degree with a social science focus</td>
<td>Master of Social Work</td>
<td>Social worker</td>
</tr>
</tbody>
</table>

### Speech Pathology

<table>
<thead>
<tr>
<th>Undergraduate Degree</th>
<th>Graduate Degree</th>
<th>Your Career</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science, biomedicine, linguistics, phonetics, education, psychology, or equivalent</td>
<td>Master of Speech Pathology</td>
<td>Speech pathologist</td>
</tr>
</tbody>
</table>

### Veterinary Medicine

<table>
<thead>
<tr>
<th>Undergraduate Degree</th>
<th>Graduate Degree</th>
<th>Your Career</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, biomedicine or science</td>
<td>Doctor of Veterinary Medicine</td>
<td>Veterinarian</td>
</tr>
</tbody>
</table>

**Entry Requirements**

- An undergraduate degree with at least one year of full-time studies in social sciences, or equivalent, with studies to have been completed within 10 years of commencing the Master of Social Work, or
- An older undergraduate degree and more recent graduate study that demonstrates current capacity for graduate study, and
- A personal statement, and
- A professional referee report using the Referee Report Form template (applications not using this form will not be assessed)


- An undergraduate degree in a relevant discipline (science, biomedicine, linguistics, phonetics, education, psychology), or equivalent


- An undergraduate degree in agriculture, biomedicine or science, including at least one semester of study in both general/cellular biology and biochemistry
- A personal statement including details of relevant work experience (up to 500 words)
- Contact details of two to three referees

[glas.unimelb.edu.au/study/courses/master-of-veterinary-science](glas.unimelb.edu.au/study/courses/master-of-veterinary-science)

- Duration depends on your undergraduate degree. An accelerated pathway (three years of undergraduate study followed by three years of graduate study) is available for graduates of the University of Melbourne Bachelor of Science (Animal Health and Disease major – Veterinary Bioscience). For further details, see: [fvas.unimelb.edu.au](fvas.unimelb.edu.au)
ADMISSIONS

HOW TO APPLY

Domestic students
Domestic students applying for an undergraduate course must submit an application through the Victorian Tertiary Admissions Centre (VTAC). Domestic students studying overseas must also apply through VTAC.

If you are applying via Access Melbourne, you must lodge a Special Entry Access Scheme (SEAS) application via VTAC.

vtac.edu.au

International students
International students studying the VCE, an Australian Year 12 or IB in Australia must apply through VTAC.

All other international students, including those undertaking foundation studies in Australia, must apply directly to the University or through one of our overseas representatives.

FEES

Domestic students
All domestic undergraduate students are enrolled in a Commonwealth Supported Place (CSP), subsidised by the Australian Government. Payment of the student contribution amount can be deferred through HECS-HELP for eligible students.

International students
Tuition fees are charged for each year that you are enrolled. You will pay tuition fees according to your specific enrolment in any given semester. Detailed fee information, including the fee policy covering your enrolment, will be provided when you are offered a place at the University.

NON-SCHOOL LEAVER ENTRY PATHWAY

As a non-school leaver, you may not have a recent study history and therefore may not meet the standard entry requirements for the course of your choice. The non-school leaver entry pathway provides mature-age applicants and those who are not entering direct from Year 12 an alternative way to demonstrate their eligibility for entry and their likelihood to succeed in their chosen course.

access.unimelb.edu.au/nsl
# ENTRY REQUIREMENTS

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Bachelor of Biomedicine</th>
<th>Biomedicine (Melbourne Chancellor’s Scholarship)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Australian Year 12</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic students: 2019 minimum ATAR</td>
<td>96.00</td>
<td>99.90</td>
</tr>
<tr>
<td>Domestic students: 2018 lowest selection rank to which an offer was made</td>
<td>95.00</td>
<td>99.00</td>
</tr>
<tr>
<td>International students: 2019 guaranteed ATAR</td>
<td>96.00</td>
<td>99.90</td>
</tr>
<tr>
<td>VCE (Units 3 and 4) prerequisite subjects</td>
<td>A study score of at least 25 in English/English Language/Literature or at least 30 in EAL, and at least 25 in Chemistry and in Mathematical Methods or Specialist Mathematics</td>
<td></td>
</tr>
<tr>
<td><strong>International Baccalaureate (IB) Diploma</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International students: 2019 guaranteed score</td>
<td>38</td>
<td>99.90 (notional ATAR)</td>
</tr>
<tr>
<td>IB prerequisite subjects</td>
<td>English, Chemistry and Mathematics (or Further Mathematics)</td>
<td></td>
</tr>
<tr>
<td><strong>GCE A Levels/Singapore A Levels</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International students: 2019 guaranteed score</td>
<td>AAB</td>
<td>Not available to A Level students</td>
</tr>
<tr>
<td>A Level prerequisite subjects</td>
<td>Chemistry and Mathematics or Further Mathematics and at least Grade C in an accepted AS Level English subject</td>
<td></td>
</tr>
<tr>
<td><strong>Trinity College Foundation Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International students: 2019 guaranteed score</td>
<td>91</td>
<td>Not available to TCFS students</td>
</tr>
<tr>
<td>TCFS prerequisite subjects</td>
<td>EAP, English, Chemistry and Mathematics 1</td>
<td></td>
</tr>
</tbody>
</table>

1. Domestic students: Applicants who achieve the minimum ATAR for a course will be eligible for a place, provided prerequisite studies and any other specific course requirements are met. The lowest selection rank to which an offer was made may be higher, depending on demand for the course and the number of places available. Only applicants eligible for special entry schemes will be admitted below the minimum ATAR. Minimum ATARs are reviewed annually.

2. Students who achieve an ATAR or notional ATAR of 99.90 or above and satisfy course prerequisites will be guaranteed a place in the Bachelor of Biomedicine (Melbourne Chancellor’s Scholarship). Students must have completed an Australian Year 12 qualification or the International Baccalaureate (IB) in Australia, or be Australian citizens studying an Australian Year 12 or the IB overseas in the year prior to entry. Students must either enrol immediately or be granted a deferral in the year following Year 12.

3. International students: The University guarantees admission to a course when an international student achieves the required score, meets prerequisite studies, and satisfies the English language requirements, if there are still places available in the course at the time of acceptance. If you do not meet the guaranteed score your application will not be considered for entry. Guaranteed scores apply only if no further study has been undertaken after completion of one of these programs. Guaranteed scores are reviewed annually. Domestic students completing an international qualification. The score listed should be considered a minimum score to be eligible for a place in that course. The actual standard required may be higher depending on the demand for the course and the number of Commonwealth Supported Places (CSP) available.

4. For students with English as their second language a pass in English B at the required level will be accepted as satisfying the English prerequisite. Except where specified, IB subjects must be passed to at least Grade 4 Standard or Higher Level. Mathematical Studies is not deemed equivalent to VCE Mathematical Methods.

5. Accepted GCE AS and A Level English subjects are: General Paper, General Studies, English Language and Literature, English Literature, English Language. Singapore A Level subject Knowledge and Enquiry (H2) is also accepted. A minimum grade of at least C is required to meet the University’s English language requirements and in prerequisite subjects.
If you’re considering studies at the University of Melbourne, we’d love to hear from you online or meet you on campus.

Sign up at: futurestudents.unimelb.edu.au/connect

OPEN DAY

Sunday 19 August 2018
10am–4pm
Parkville and Southbank campuses
openday.unimelb.edu.au