

Bachelor of Biomedical Science

2019

Undergraduate

In this flexible program, you'll develop a broad understanding of human anatomy, physiology and pathology from cellular to systems level.

Biomedical science forms the basis of our understanding of how human and animal bodies function, and the responses of the body to various diseases, exercise, diet, internal disturbances and environmental influences.

It is a broad area of science that is all about understanding the human body and how it interacts with disease – how it occurs, what happens and how we can control, cure and prevent it. Biomedical sciences involve an understanding of anatomy and human physiology as well as cell biology and biochemistry.

In addition to a fundamental understanding of biomedical sciences you'll have the opportunity to select specialist electives in your final year. You will also gain an understanding of the research process and experience with the modern technologies used in biomedical research.

The program is an ideal preparation for graduate entry into health sciences programs such as medicine, physiotherapy and dentistry, allowing you to meet all necessary prerequisites.

Career outlook

This degree can lead you to work in leading fields such as genetic engineering, cancer research, neuroscience, and DNA profiling and stem cell research.

Biomedical scientists study all aspects of the human body and the impact of disease. They study symptoms, causes and treatments in an attempt to better understand and tackle disease. They can work in specialty areas that can include scientific research and developmental science.

Our biomedical science program produces highly skilled graduates with advanced theoretical and practical knowledge in selected areas of biochemical, physiological and related medical sciences.

Employers and industry professionals contribute to the ongoing development of the program. Their involvement ensures that the program remains relevant to your needs as a graduate and to the needs of graduate employers.

Graduates can work in:

- research in universities, hospitals and biomedical research institutes
- medical and pharmaceutical research
- public and private diagnostic centres
- therapeutic research laboratories
- applied health areas such as health promotion and administration

You can also go on to postgraduate studies in biomedical science in universities and research institutes.

Industry connections

During third year's Practical Biomedical Science you'll have the chance to gain experience in the workplace, including with RMIT's own scientists, analytical laboratories in hospitals, and science and medical research opportunities in industry and academic institutes.

Professional recognition

Depending on courses chosen in your final year and meeting specific criteria, you will be eligible for membership to the following societies:

- Ausbiotech
- Australasian Society for Human Biology (ASHB)
- Australian and New Zealand Society for Cell and Developmental Biology (ANZSCDB)
- Australian Physiological Society (AuPS)
- Australian Society for Medical Research (ASMR)
- Australian Society of Biochemistry and Molecular Biology (ASBMB)
- Genetics Society of Australia (GSA)
- Human Genetics Society of Australasia (HGSA)
- Mutagenesis and Experimental Pathology Society of Australia (MEPSA)

International opportunities

There are opportunities within the program for study abroad or to obtain international experience.

Program snapshot

Program code: BP231

Duration

Full-time: 3 years
Part-time may be available

Location

Bundoora campus

Selection mode

ATAR (2018: 75.75)

How to apply

Semester 1: VTAC
vtac.edu.au

Semester 2: Direct to RMIT
rmit.edu.au/programs/apply/direct

Fees

For local fee information:
rmit.edu.au/programs/fees

Contact

Info Corner
330 Swanston Street
(cnr La Trobe Street)
Melbourne VIC 3000
Tel. +61 3 9925 2260

rmit.edu.au/programs/bp231

Program structure

You'll be able to choose electives to suit your interests. All areas provide a strong foundation for progression into research and other health-related careers.

Year 1

You'll cover chemistry, human biology, cell biology, genetics, microbiology, immunology and statistics.

Year 2

You'll study biochemistry, human physiology, cell biology and anatomy. Depending on your area of specialisation, you may choose electives in immunology, histology or microbiology.

Year 3

You will have a choice of studying molecular biology, biochemistry, cell biology, anatomy, advanced physiology, pathology or microbiology. You'll also undertake a short research project or work experience placement.

Program elective examples:

- Histology
- Tissue growth and repair
- Cardiovascular Biology
- Gene Technologies
- General Pathology
- Head and Visceral Anatomy
- Clinical Immunology
- Microbiology
- Neuroscience

Year 1	Biology of the Cell	Introduction to Biomedical Science	Chemistry for Life Sciences	Statistics and Epidemiology
	Introduction to Medical Biochemistry	Introduction to Human Biosciences	Introduction to Microbiology, Immunology and Genetics	University elective
Year 2	Biochemistry and Molecular Biology 1	Human Physiology 1: Body Systems	Developmental and Cell Biology	Program elective
	Biochemistry and Molecular Biology 2	Human Physiology 2: Body Systems	Limb and Trunk Anatomy	University elective
Year 3	Cellular Communication	Program elective	Program elective	Program elective
	Practical Biomedical Sciences	Program elective	Program elective	Program elective

Compulsory courses
 Program electives
 University electives

Please note: This is an example of the program structure. Courses may change and may not be available each semester.

Additional information

Non-Year 12 applicants may submit additional information if they would like it to be considered. For semester 1 intake, this can be completed through the VTAC Personal Statement online. For semester 2 intake, this can be completed through the personal statement in the Apply Direct application.

This information is designed for Australian and New Zealand citizens and permanent residents of Australia.

Disclaimer: Every effort has been made to ensure the information contained in this publication is accurate and current at the date of printing. For the most up-to-date information, please refer to the RMIT University website before lodging your application. Visit www.rmit.edu.au. RMIT University CRICOS Provider Code: 00122A. RMIT Registered Training Organisation code: 3046. Prepared June 2018.