Bachelor of Biomedical Science

Undergraduate

Biomedical Science at Deakin covers the science underpinning medical applications, from basic biology to specific disease processes.

With an emphasis on the cause, diagnosis and treatment of disease at the molecular, cellular and system levels, you will be provided with a thorough understanding of human biology and health.

Course overview

The Bachelor of Biomedical Science is a flexible and topical program, that enables you to learn about your chosen field of study from both scientific and health perspectives.

Throughout the course you’ll gain relevant and wide-ranging practical experience to ensure you graduate with both the theoretical knowledge and practical skills required across a diverse range of careers.

Course structure

Bachelor of Biomedical Science

- **Location:** Melbourne Burwood Campus [M] and Geelong Waurn Ponds Campus [WP]
- **Duration:** 3 years full-time study (or part-time equivalent)
- **Intake:** March (Trimester 1), July (Trimester 2)
- **Deakin code:** S323
- **ATAR score:** [M] 80.15 [WP] 72.5
- **VTAC code:** Melbourne Burwood Campus (1400514111), Geelong Waurn Ponds Campus (1400314111)

The Bachelor of Biomedical Science consists of 24 credit points of study, comprising of 15 core units (including a professional practice unit), one six credit point major sequence and three elective units. You can choose your elective units from many course areas across the University according to your own interests and career aspirations, thus enhancing the distinctiveness of your degree.

Major sequences

Major sequences are available in the following areas.

1. **Environmental health** [M] [WP]
   - With a focus on healthy environments and healthy people, this study area is recommended if you are interested in working in public health policy, environmental health and other related areas.

2. **Infection and immunity** [M] [WP]
   - The infection and immunity study area builds on the core skills of genetics, microbiology and immunology. It is an advanced and integrated area of study that provides you with a deeper understanding of host-pathogen interactions, as well as the public health and clinical epidemiological burdens of infectious diseases.

3. **Medical biotechnology** [M] [WP]
   - Medical biotechnology uses cells and cell materials to produce pharmaceutical and diagnostic products that help treat and prevent human diseases.

4. **Medical genomics** [M] [WP]
   - Examine core genomics areas, including medical and human genomics, comparative genomics, microbial and forensic genomics, biotechnology and phylogenomics. You will also gain a solid understanding of associated methodologies including Next Generation Sequencing, high throughput genotyping, metagenomics, small RNA and transcriptome analysis.

5. **Molecular life sciences** [M] [WP]
   - This study area enables you to acquire an advanced understanding of chemical, physiological and genetic processes that determine health and disease at the molecular level.

6. **Pharmaceutical sciences** [M] [WP]
   - This study area covers the chemistry, biology and technology of medicines, providing an enhanced understanding of the discovery, design and function of drugs, which is applicable both in medicinal research and the pharmaceutical industry.

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1. Lowest selection rank of an applicant to which an offer was made in 2019.
I enjoyed so many overseas opportunities as part of my studies, from working as part of a Deakin team to assist a local nunnery build a solar bath house in a remote area of India, to an exchange studying at the University of Prince Edward Island in Canada and a short-term university exchange to Dalian Medical University in China.

Nicole Page
Bachelor of Biomedical Science graduate

Professional industry experience
As a biomedical science student, you will gain valuable practical experience by completing a work placement of 80–160 hours as part of the professional practice unit within your course. Work placements are undertaken at a host organisation within a relevant industry and provide opportunities for you to gain hands-on experience, establish valuable networks and acquire an insight into possible career outcomes before you graduate. You will have the opportunity to complete placements locally or internationally.

Career opportunities
As a graduate of Deakin’s Bachelor of Biomedical Science you will be able to enter a vast range of health-related industries including medical research, genetic engineering, the pharmaceutical industry, pharmaceutical/medical sales and laboratory technology. You can also advance to honours or postgraduate studies, either in more specialised areas of biomedical science (which will enhance your professional development as a scientist), or in other disciplines, including medicine (which will complement your scientific training and broaden your career opportunities).

An honours year is available for high-achieving students upon completion of this course.

Interested in applying?
Entry requirements
Entry for applicants with recent secondary education (previous three years) will be based on their performance in Senior Secondary Certificate of Education with pre-requisite units 3 and 4; a study score of at least 25 in English EAL (English as an additional language) or 20 in English other than EAL.

Entry for applicants with previous Tertiary, VET, life or work experience will be based on their performance in:

- Certificate IV in a related discipline OR
- Diploma in any discipline or 50% completion of Diploma in a related discipline OR
- Successful completion of relevant study – equivalent to at least two Deakin University units – at an accredited higher education institution OR
- Evidence of academic capability judged to be equivalent, including Foundation program approved by Faculty Board, or relevant work or life experience

How to apply
Depending on your course, our flexible trimester system means you may be able to start in Trimester 1 (March), 2 (July) or 3 (November).

If you’re currently enrolled in Year 12 (in 2019), applications for Trimester 1 must be made through VTAC, www.vtac.edu.au. Note that when you apply via VTAC, you can’t also apply directly to Deakin.

Conversely, you can apply directly to Deakin for Trimester 1 if you’re not currently enrolled in Year 12 and you haven’t submitted a VTAC application (so long as you’re just applying for one course).

Applications for Trimester 2 or 3 should be made directly to Deakin via the applicant portal, deakin.edu.au/apply.