



•STUDENT•
PROFILE

Brendan Holland
Bachelor of Science
Geelong Campus at Waurn Ponds

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'I chose to study at Deakin because the Geelong Campus at Waurn Ponds was exactly what I was after and I also liked the flexible study options.

My course has inspired me to extend my boundaries . . . I completed a 13-week placement in industry with pharmaceutical company GlaxoSmithKline which was a great opportunity to travel outside uni and put my course into practice.'



Science

Science at Deakin opens the door to a range of careers that are stimulating, challenging and rewarding. Whether you want to interpret a crime scene, diagnose a disease or explore the boundaries of biotechnology, a Deakin Science degree equips you with a broad skill base and a strong understanding of your chosen field and its social and commercial contexts.

By studying in Deakin's exciting research environment you will develop the investigative and discipline-related skills required for tackling complex problems. As a graduate, you will have the opportunity to work in a career with far-reaching benefits for industry and the community.

Study a general or specialist degree – the choice is yours

At Deakin you can take a broad approach to your science studies or give them a more specific focus.

Our Biomedical Science course is a vibrant, relevant and topical program with a multidisciplinary approach that enables you to learn about your chosen fields of study from both scientific and health perspectives. Our Forensic Science course aims to provide you with the skills and techniques essential to this field, including the examination and presentation of scientific evidence to solve crimes.

In our Biological Science course you will study a wide range of units in biology, including animal and plant biology, genetics, physiology and evolution as well as gain relevant and wide-ranging practical experience in both the laboratory and the field.

For a broad approach, our Science course gives you the opportunity to pursue at least one science major sequence in an area of interest with the possibility of a second major sequence. Science at Deakin is also available as a combined course with Arts, Commerce, Engineering, Law and Teaching (Science).

Whatever your choice, as a Deakin Science student you will experience and benefit from a mix of practical and theoretical teaching.

First-class facilities

You will learn in a modern teaching environment and gain hands-on experience by participating in laboratory, field and project work. As well as access to first-class infrastructure and facilities, you will also enjoy the advantage of small class sizes and personal contact with our research-active staff.

In-demand skills

Science at Deakin provides you with the skills employers require. You will gain discipline-specific knowledge and practical skills along with the ability to think critically, learn independently and team work effectively. Our strong links with industry and government help ensure our Science courses remain relevant and progressive.

Exciting career opportunities

Deakin's Science courses have been designed to give you flexibility in your career choices. Science offers you a vast range of career opportunities within the general health and medical industry, emerging biotechnology industries as well as agriculture, pharmaceuticals, forensics and food technology. You may also find a career in occupational health and safety, research, management or marketing, science journalism or teaching.

Work-Integrated Learning

Our Work-Integrated Learning Program enables you to incorporate a full or part-time industry placement as part of your degree.



Science

Bachelor of Biological Science 3 B

Deakin code	VTAC code	Indicative first year fee ¹	ATAR
S321	16061 (CSP)	\$4360 (CSP)	70.95
Year 12 prerequisites	VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.		
Non-Year 12 requirements	VTAC Pi form.		

Deakin's Bachelor of Biological Science provides you with a wide range of units in biology, including animal and plant biology, genetics, physiology and evolution. You will learn in a modern teaching environment and gain hands-on experience by participating in laboratory and project work and by undertaking professional practice.

An honours year is available upon the completion of this degree, and can provide you with a competitive edge in the job market or a pathway into a higher degree.

Career opportunities

You may find employment in a vast range of areas including those within the general health and medical industry (hospital scientists, analytical and diagnostic laboratory scientists and research scientists), food and agriculture-based industries, animal health, quarantine, wildlife biology, environmental consulting, museums, herbaria and the emerging biotechnology industries.

Bachelor of Biomedical Science 3 B G

Deakin code	VTAC code	Indicative first year fee ¹	ATAR
S323	B 14111 (CSP)	\$4860 (CSP)	B 83.90
	G 15281 (CSP)		G 76.10
Year 12 prerequisites	VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English and a study score of at least 20 in one of biology, chemistry or physics.		
Non-Year 12 requirements	VTAC Pi form.		

Biomedical science concerns the molecular and cellular basis of normal human biology and disease processes. The Bachelor of Biomedical Science is a vibrant, relevant and topical program delivered through a partnership between the Faculty of Science and Technology and the Faculty of Health, Medicine, Nursing and Behavioural Sciences.

This multidisciplinary approach enables you to learn about your chosen fields of study from both scientific and health perspectives.

An honours year is available upon the completion of this degree, which can provide you with a competitive edge in the job market or a pathway into a higher degree.

Career opportunities

As a graduate you will be able to enter a vast range of health-related industries including areas such as 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 medicine or biomedical science (which will enhance your professional development as a scientist), or in other disciplines (which will complement your scientific training and broaden your career opportunities).

Bachelor of Forensic Science 3 G

Deakin code	VTAC code	Indicative first year fee ¹	ATAR
S324	15231 (CSP)	\$4650 (CSP)	68.10
Year 12 prerequisites	VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English, and a study score of at least 20 in mathematics (any).		
Non-Year 12 requirements	VTAC Pi form.		

Deakin's Bachelor of Forensic Science aims to provide formal training in the skills and techniques essential to modern forensic science, including the examination and presentation of scientific evidence to solve crimes.

The course combines studies in biology, chemistry, biochemical and chemical analysis, statistical analysis and molecular biology. You will also undertake studies in criminology, including the examination and interpretation of evidence and courtroom skills.

The course has extensive industry links with local and Australian forensic organisations, and features guest lecturers and site visits in collaboration with leading forensic organisations.

An honours year is available upon the completion of this degree, which can provide you with a competitive edge in the job market or a pathway into a higher degree.

Career opportunities

Career opportunities exist working in forensics, insurance investigation, risk analysis, research science, government institutions and within chemical, food and pharmaceutical industries.

Major sequences

You must complete a major sequence in either forensic biology or forensic chemistry in addition to the core unit requirements.



Deakin's Science students gain experience through practical programs in modern teaching laboratories.

KEY

- 3** Course duration
- B** Melbourne Campus at Burwood
- F** Geelong Waterfront Campus
- G** Geelong Campus at Wairn Ponds
- W** Warrnambool Campus
- X** Off campus

Bachelor of Science **3 B G**

Deakin code	VTAC code	Indicative first year fee ¹	ATAR
S320	B 14401 (CSP) G 15221 (CSP)	\$4890 (CSP)	B 66.15 G 57.00
Year 12 prerequisites	VCE units 3 and 4 – a study score of at least 25 in English (ESL) or 20 in any other English.		
Non-Year 12 requirements	VTAC Pi form.		

Science is a practical discipline where teamwork, critical thinking and problem solving are crucial to finding creative solutions to everyday problems. Deakin's Bachelor of Science allows you to start with a broad program then specialise as you progress through the course, developing your interests and career aspirations. Science at Deakin is not just about laboratory work, but prepares you for a range of real-life settings in which today's science graduates work.

You will gain experience through practical programs undertaken in modern teaching laboratories. Deakin's Bachelor of Science also offers you the opportunity to undertake Industry-Based Learning, which can be credited towards your degree.

An honours year is available upon the completion of this degree, which can provide you with a competitive edge in the job market or a pathway into a higher degree.

Career opportunities

Graduates of this course may find work in government institutions, in roles such as quality assurance, occupational health and safety, research, planning, management or marketing; science related industries, working in pharmaceutical production or pharmaceutical sales; biomedical science areas such as research or hospital and laboratory science; quality assurance in analytical and diagnostic laboratories; the food industry in quality control; environment and natural resources, teaching, information technology, mathematics or science journalism to name a few.

Major sequences

- » Biological chemistry **B G**
- » Biology **B G**
- » Chemistry **G**
- » Environmental science **B**
- » Mathematical modelling **B G X**
- » Zoology **G**

Biological chemistry **B G**

The biological chemistry major sequence provides the fundamental language of chemistry and chemistry arithmetic for students wishing to understand the more chemically-oriented facets of modern biology.

Biology **B G**

This major sequence allows you to focus on one or more of the following areas: animal and plant biology, physiology and cell biology, or biochemistry and molecular biology.

Chemistry **G**

This major sequence provides an introduction to the synthesis, separation, detection and measurement of chemical substances, their properties and reactions.

Environmental science **B**

Study ecology and environmental science units, including plant and wildlife conservation, environmental assessment and monitoring, land use planning, natural resource management and land rehabilitation, marine and freshwater biology, integrated pest management, environmental economics, fisheries ecology and aquaculture.

Mathematical modelling **B G X**

Studies in mathematical modelling provides you with a strong critical knowledge base and develops powers of analysis, logical thinking and problem solving, as well as a high level of numerical ability.

Zoology **G**

Study the biology of animals from several aspects ranging from an understanding of how animals function, their evolution and their relationship with the environment.

Science and Technology (Dean's Scholars Program)

Deakin code	VTAC code	Indicative first year fee ¹	ATAR
Refer to specific course entry	B 14381 (CSP) G 15091 (CSP) F 15241 (CSP) W 18201 (CSP)	Refer to specific course entry	B 90.00* G / F 90.00* W 90.00*
Year 12 prerequisites	Applicants must refer to the prerequisites for their specific Science, Engineering, Architecture, Construction Management, Environmental Science, or Information Technology preference. Minimum ATAR of 90.00.		

The Dean's Scholars Program aims to recognise, reward and nurture high-achieving students. A minimum ATAR of 90.00 is required for entry into this course. Scholarships will be awarded annually across the Faculty to Year 12 students admitted to the program through VTAC. Successful applicants will also be offered a professional development program and have a high chance of being selected for the Science and Technology Industry-Based Learning program.

Refer to specific course entries in this guide from the list of Science, Engineering, Environmental Science, Information Technology, Architecture and Construction Management courses.

* Minimum ATAR, interviews are also taken into consideration.



*Tim Bowser
Commercialisation Manager
GlaxoSmithKline Australia –
Chemicals Division*

‘GlaxoSmithKline (GSK) is a global, research-based pharmaceutical and healthcare company. Deakin graduates display good practical skills and self-confidence which allows them to learn quickly and adapt to the work environment. Deakin graduates have also displayed leadership capabilities which have led them on career paths that include roles in senior management at GSK Australia’s manufacturing operations.’

Science

Combined course

Bachelor of Arts/Bachelor of Science **4 B G**

Deakin code	VTAC code	Indicative first year fee ¹	ATAR
D311	B 14391 (CSP) G 15591 (CSP)	\$5110 (CSP)	B 72.75 G 63.70
Year 12 prerequisites	VCE units 3 and 4 – a study score of at least 30 in English (ESL) or 25 in any other English.		
Non-Year 12 requirements	VTAC Pi form.		

This combined course enables you to pursue studies in a variety of contemporary themes such as the body, the environment, science policy and practice, and others. You may combine major sequences such as public relations/chemistry, philosophy/mathematics, sociology/biology or environmental science/journalism.

For more information, including major sequences and career opportunities, please refer to individual degree listing on page 30 for Bachelor of Arts and page 93 for Bachelor of Science or visit www.deakin.edu.au.

See also

Combined courses

Bachelor of Commerce/Bachelor of Science, page 47.
Bachelor of Engineering/Bachelor of Science, page 57.
Bachelor of Teaching (Science)/Bachelor of Science, page 51.
Bachelor of Science/Bachelor of Laws, page 79.

More information on Science



2012 Undergraduate Science Career Booklet

P 1300 DEGREE (1300 334 733)

E enquire@deakin.edu.au

www.deakin.edu.au/scitech/les

For the latest information about new courses at Deakin University, please visit www.deakin.edu.au.

¹ The indicative first year fee is an approximate indication of the cost of this course in the first year of full-time study for a Commonwealth Supported Place. We can't specify the exact figure, because fees are charged per unit, not per course, so the actual fees may vary depending on what units you choose to study.

The fees quoted in this book are for Australian students in 2011, and may change for 2012 and later years. You can find more information about fees on our web site www.deakin.edu.au or page 103. For information on fees for international students, please visit www.deakin.edu.au/international.