



Australian  
National  
University



SCIENCE, HEALTH & MEDICINE  
2021 STUDENT GUIDE

ANU College of  
Science  
Health & Medicine

# WHY ANU?



## Our students

25,500  
total number  
of students

12,800  
undergraduate  
students

6,000  
students living  
on campus

5 star  
rating for  
staff-to-student ratio<sup>3</sup>



## Our University

#1  
university  
in Australia<sup>1</sup>

#29  
university  
in the world<sup>1</sup>

#12  
most international  
university in the world<sup>2</sup>



## Our graduates

#5  
most employable  
graduates in Australia<sup>1</sup>

#66  
most employable  
graduates in the world<sup>1</sup>

\$5k  
higher average salary  
for ANU graduates<sup>4</sup>



6  
Nobel Prize winners  
among our staff  
and alumni



1. QS World University Rankings 2020 2. Times Higher Education Rankings 2019  
3. Good Universities Guide 2020 4. Graduates in full-time employment in the medium-term  
compared to national median, Graduate Outcomes Survey 2018

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# OUR DISCIPLINES

## Astronomy & astrophysics

Astronomy and astrophysics is the study of everything from planets to galaxies to other universes and everything is in between. Studying it can launch a career with NASA, defence, engineering or even finance.

### Study astronomy and astrophysics in any of these degrees:

- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)

## Biology

Biology students can participate in ground-breaking research in our \$240-million laboratories, or on fieldtrips around Australia such as in Tasmania or our coastal campus at Kioloa. Our graduates find careers in agricultural biotechnology, genetic counselling, environmental policy, wildlife biology and immunology, just to name a few.

### Study biology in any of these degrees:

- > Bachelor of Biotechnology
- > Bachelor of Genetics
- > Bachelor of Health Science
- > Bachelor of Medical Science
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)

## Chemistry

Our chemists are making a difference to our world, by improving the understanding of diseases like Alzheimer's, or the performance of capacitors in our electronic devices like laptops and phones. An understanding of chemistry is critically important for anyone planning a career in science, medicine or engineering.

### Study chemistry in any of these degrees:

- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)
- > Bachelor of Philosophy (Honours) (PhB)[ANU]/  
Bachelor of Science (Honours)[NUS]

## Earth & marine sciences

By bringing together geology, chemistry, physics, mathematics and biology, this discipline (ranked #9 in the world at ANU\*) helps you understand what shapes our planet and environment. Enter into areas such as climate and ocean science, mineral and petroleum exploration, geoscience, exploratory geology, natural resource management, and environmental monitoring.

### Study earth and marine sciences in any of these degrees:

- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)

## Environment & sustainability

Finding sustainable solutions to problems such as increasing biodiversity loss, extreme weather events, urbanisation and climate change are more urgent than ever. Work alongside our world-leading researchers at fieldwork sites like Kioloa, Lake George, Kosciuszko National Park, or even across the globe in Vietnam and Fiji.

### Study environment and sustainability in any of these degrees:

- > Bachelor of Environment & Sustainability
- > Bachelor of Environment & Sustainability  
Advanced (Honours)
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)

## Mathematics

Mathematics (ranked #1 in Australia at ANU\*) is everywhere in science and more sophisticated and innovative mathematical tools are needed in technology and in the community. Graduates are valued for their quantitative problem-solving skills, and as technology advances, the need for skills in mathematics is more important than ever.

### Study mathematics in any of these degrees:

- > Bachelor of Mathematical Sciences
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)
- > Bachelor of Philosophy (Honours) (PhB)[ANU]/  
Bachelor of Science (Honours)[NUS]

\*QS World University Rankings by Subject 2020

## Medical & health sciences

Our researchers are making medical advances in the fields of immunology, cancer, genomics, neuroscience, mental health, infectious diseases, obesity and metabolic disorders. These researchers are your teachers in medical and health sciences at ANU and you can work alongside them in their active research labs, witnessing breakthroughs as they happen, and gaining critical practical expertise.

### Study medical and health sciences in any of these degrees:

- > Bachelor of Biotechnology
- > Bachelor of Genetics
- > Bachelor of Health Science
- > Bachelor of Medical Science
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)

## Physics

ANU is home to Australia's largest university-based physics research institution, with world-class facilities and over 150 physicists, including the team who played a critical role in the detection of gravitational waves—hailed as the biggest scientific breakthrough of the century. Our inclusive teaching environment means you will receive tailored support to pursue your interests.

### Study physics in any of these degrees:

- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)
- > Bachelor of Philosophy (Honours) (PhB)[ANU]/  
Bachelor of Science (Honours)[NUS]

## Psychology

Psychology is the study of human behaviour, emotion, cognition and wellbeing. Graduates have the skills to understand human motivation and behaviour (people skills), data analytics and statistics (research and data skills). Graduates have the option to go to clinical or professional psychology, research or into the workforce.

### Study psychology in any of these degrees:

- > Bachelor of Science (Psychology)
- > Bachelor of Psychology (Honours)
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)
- > Bachelor of Arts

## Science communication

Whether you enjoy writing, presenting, tweeting, organising big events for thousands of people or ensuring every single one of your patients gets just what they need, studying science communication enhances your communication skills and social awareness. Find work in government, the community sector, industry or the media.

### Study science communication in any of these degrees:

- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)
- > Bachelor of Philosophy (Honours) (PhB)

# OUR DEGREES

DEGREE NAME	DESCRIPTION
<b>Bachelor of Biotechnology</b>	Biotechnology is about applying new technologies to agriculture, food and medicine, and environmental problems in the context of research, industry and the applied health sciences. You will learn the foundations of biology as well as contemporary topics like genetically modified organisms (GMOs), cloning and genetic screening.
<b>Bachelor of Environment &amp; Sustainability</b>	Learn about the scientific and social aspects of environment and sustainability as well as how to translate environmental science into government policy. You will study a combination of theory and methods while enjoying opportunities for field-based learning, hands-on applications and internships.
<b>Bachelor of Environment &amp; Sustainability Advanced (Honours)</b>	This degree gives you the opportunities of the Bachelor of Environment & Sustainability but includes enhanced research-led learning opportunities and offers direct entry into a fourth year of Honours which includes a substantial original research project (thesis).
<b>Bachelor of Genetics</b>	Unravel the mysteries of DNA, understand how genes interact with the environment and how your heredity determines your risk of developing certain diseases. This degree will develop your skills in the techniques of genomics, bioinformatics and molecular genetics.
<b>Bachelor of Health Science</b>	Tackle some of the greatest health challenges of our time with B Health Science. B Health Science draws upon the world-leading strengths of ANU in medical education, biomedical science, population health, psychology, social science and public policy to prepare you for a future in medical, allied health and health-related professions. It will equip you with a broad understanding of the themes explored in advanced studies of medicine and population health with direct admission pathways to the Doctor of Medicine and Surgery and/or a vertical double degree with the Master of Public Health at ANU.
<b>Bachelor of Mathematical Sciences</b>	This is an elite, research-focused degree for exceptional students who want to master quantitative problem-solving and mathematical modelling. You can concentrate on theoretical mathematics or applied areas such as mathematical modelling, mathematical finance, mathematical economics, mathematical physics, and quantitative biology.
<b>Bachelor of Medical Science</b>	This structured degree draws on the foundations of medical science including studies in genetics, immunology, nutrition, physiology, microbiology, biochemistry and anatomy. The program will prepare you for further studies in applied biomedical fields and medical research or to explore your interests in other relevant fields including neuroscience, cancer biology, human genetics or immunology.
<b>Bachelor of Philosophy (Honours) (PhB)</b>	The PhB gives intellectually ambitious students the flexibility to focus on research in a range of disciplines from physics or biology to law or international relations. You will also have a personal academic mentor.
<b>Bachelor of Philosophy (Honours) (ANU) /Bachelor of Science (Honours) (NUS)*</b>	This degree gives you the opportunities of the PhB but you will spend three semesters of your degree at the National University of Singapore (NUS) and you are required to choose one of three major areas of study offered either chemistry, mathematics or physics.
<b>Bachelor of Psychology (Honours)</b>	This degree is for students wanting to specialise in psychology and gain direct entry into a fourth year of Honours research which is required to pursue further study in clinical psychology.
<b>Bachelor of Science</b>	Whether your interests are broad or unique, the Bachelor of Science allows you to follow or find your passion. Combine areas of study such as biology and physics, or mathematics and chemistry, or even extend your interests outside science to areas such as languages or law. You can choose up to two science majors and you don't have to decide on these until your second year of study.
<b>Bachelor of Science (Advanced) (Honours)</b>	This degree provides the same breadth of opportunities as the Bachelor of Science, with the addition of Honours pathway level courses required to extend your understanding, introduce you to more advanced concepts and introduce a research component to the degree.
<b>Bachelor of Science (Psychology)</b>	A comprehensive overview of the six different areas of psychology (developmental, social, personality, methods, cognition and biological) and applies this knowledge to more specialised areas such as neuroscience, counselling, health and organisational (business) psychology. Students do not have a guaranteed direct pathway into Honours.

For detailed admission requirements check the Programs and Courses website  
[W.programsandcourses.anu.edu.au](http://W.programsandcourses.anu.edu.au)

DURATION (FULL TIME)	SEMESTER INTAKE	2020 RECOMMENDED CUT-OFF	RECOMMENDED OP (QLD)	RECOMMENDED IB	PREREQUISITES	UAC CODE	CRICOS CODE
3 years	1 only	80	10	29	Chemistry+	138503	036660M
3 years	1 & 2	80	10	29		138201	091180D
4 years	1 & 2	95	4	37		138202	091181C
3 years	1 only	90	6	34	Chemistry+	138600	064778J
3 years	1 only	90+	6	34	Successful assessment of suitability based on a supplementary form	138302	094623B
3 years	1 only	95	4	37	Advanced mathematics#	138200	086223G
3 years	1 only	90	6	34	Chemistry+	138403	036662J
4 years	1 & 2	99	1	42	Submission of a supplementary form and two referee reports	138000	043746B
4 years	1 & 2	99	1	42	Submission of a supplementary form and two referee reports	138005	054595K
4 years	1 & 2	95	4	37		138130	036680G
3 years	1 & 2	80	10	29	Some subjects require prior knowledge	138003	000335K
4 years	1 & 2	95	4	37	Some subjects require prior knowledge	138004	065138M
3 years	1 & 2	80	10	29		138123	047423M

\* Joint degree offered with the National University of Singapore (NUS)

^ This is a vertical double degree. The Bachelor degree is taught through ANU and the Master degree is taught through the University of Canberra (UC)

+ The chemistry bridging course is offered through the ANU Research School of Chemistry [chemistry.anu.edu.au/study/bridging-course](http://chemistry.anu.edu.au/study/bridging-course)

# The mathematics bridging course is offered through the ANU Mathematical Sciences Institute [maths.anu.edu.au/study/bridging-course](http://maths.anu.edu.au/study/bridging-course)

† Due to the competitive and contextual nature of our selection process, we cannot guarantee entry to applicants who meet the minimum selection rank for their preferred program.

# BACHELOR OF BIOTECHNOLOGY

## Key facts

**Minimum entry requirements:** 80 ATAR, 10 OP, 29 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 only

The Bachelor of Biotechnology can also be taken as part of a Flexible Double Degree or Flexible Vertical Double Degree. See pages 22-24 for more information.

Chemistry prerequisite. See page 25 for more information on the bridging course.

**UAC code:** 138503

**CRICOS code:** 036660M

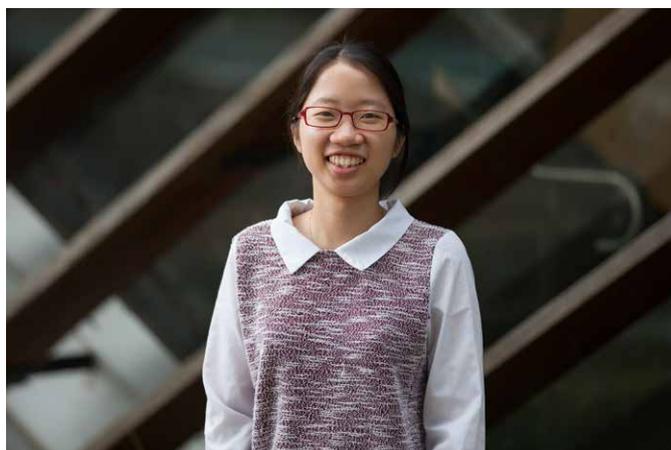
## Program overview

In the Bachelor of Biotechnology, you will learn the foundations of biology, from genes through to ecology, while examining important questions about ethics and intellectual property.

This program gives you the knowledge to develop the fuel sources, foods and medical treatments of the future, while teaching you to think ethically about how they will change our society.

## Career outcomes

Our Bachelor of Biotechnology graduates are highly sought after by government and industry employers in chemical, plant and agricultural, and medical biotechnology. You may also find positions in hospitals, food and pharmaceutical industries, or continue on to a career in research.



### STUDENT PROFILE

#### Jiansi Long

#### Bachelor of Biotechnology (Honours)

"I think biotechnology is important because today we're learning more and more about how genes work. I want to use biotechnology to make drugs more personalised, doing something like gene therapy."

 #50 in the world and #3 in Australia for Biological Sciences\*  
\*QS World University Rankings 2020

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Biology 1: Evolution, Ecology and Genetics	Chemistry 1	Elective	Elective
	2	Biology 2: Molecular and Cell Biology	Chemistry 2	Elective	Elective
2	1	Genes: Replication and Expression	Chemical Biology 1	Biotechnology elective	Elective
	2	Molecular Gene Technology	Biotechnology elective	Biotechnology elective	Elective
3	1	Genomics and its Applications	3000 level BIOL course	3000 level BIOL/CHEM/NEUR course	Elective
	2	Biology, Society and Ethics	3000 level BIOL/CHEM/NEUR course	3000 level BIOL/CHEM/NEUR course	Elective

\*Example study plan is a suggestion on how this program can be structured.

**W [science.anu.edu.au/study/bachelors/bachelor-biotechnology](http://science.anu.edu.au/study/bachelors/bachelor-biotechnology)**

# BACHELOR OF ENVIRONMENT & SUSTAINABILITY

## Key facts

**Minimum entry requirements:** 80 ATAR, 10 OP, 29 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

The Bachelor of Environment & Sustainability can also be taken as part of a Flexible Double Degree or Flexible Vertical Double Degree. See pages 22-24 for more information.

**UAC code:** 138201

**CRICOS code:** 091180D

## Program overview

The Bachelor of Environment & Sustainability is a contemporary degree, covering environmental science, policy and social sciences, allowing you to address the complex challenges of sustainability by giving you a broad environmental education.

## Career outcomes

Work on environment and sustainability issues in a range of global, national and local contexts.

- > Policymaking within government
- > Water management
- > Environmental management
- > Fire management
- > International development
- > Food security consulting
- > Climate change consulting
- > Urban planning and sustainability

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Major	Science elective	Elective	Elective
	2	Major	Science elective	Elective	Elective
2	1	Major	Science elective	Minor	Elective
	2	Major	Science elective	Minor	Elective
3	1	Major	Major	Minor	Elective
	2	Major	Major	Minor	Elective

\*Example study plan is a suggestion on how this program can be structured.



## STUDENT EXPERIENCE

### Montana de Meillon

#### Bachelor of Environment & Sustainability/ Bachelor of Development Studies

“As part of the Environmental Science Field School offered by the Fenner School of Environment and Society, we went to the Clonakilla vineyard in Murrumbateman.

“By conducting soil sample tests in a range of sites across a single vineyard, we participated in real-world consultancy. After collecting data, we developed a picture of what soils made the best wines.”

 #21 in the world and #2 in Australia for Environmental Sciences\*  
\*QS World University Rankings 2020

## Bachelor of Environment & Sustainability Advanced (Honours) option available

**Entry requirements:** 95 ATAR, 4 OP, 37 IB

**Duration:** 4 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

70% minimum average required throughout degree

**UAC code:** 138202

**CRICOS code:** 091181C

### Program overview

The Bachelor of Environment & Sustainability (Advanced) (Honours) has a higher entry requirement and students must complete the fourth Honours year, which consists of intensive research and a thesis.

W [science.anu.edu.au/study/bachelors/bachelor-environment-sustainability](http://science.anu.edu.au/study/bachelors/bachelor-environment-sustainability)

W [science.anu.edu.au/study/bachelors/bachelor-environment-sustainability-advanced](http://science.anu.edu.au/study/bachelors/bachelor-environment-sustainability-advanced)

# BACHELOR OF GENETICS

## Key facts

**Minimum entry requirements:** 90 ATAR, 6 OP, 34 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 only

65% minimum average required throughout degree

The Bachelor of Genetics can also be taken as part of a Flexible Double Degree or Flexible Vertical Double Degree. See pages 22-24 for more information.

Chemistry prerequisite. See page 25 for more information on the bridging course.

**UAC code:** 138600

**CRICOS code:** 064778J

## Program overview

In this program you'll learn how genes hold our hereditary information, study classical genetics, molecular genetics, population genetics, and bioinformatics. You can even follow interests in areas as diverse as plant genetics, evolutionary genetics or medicine and health.

## Career outcomes

Our graduates have gone on to positions at:

- > Medical and agricultural research institutes
- > Hospitals
- > Government departments
- > Schools and universities
- > Patent firms
- > Genetic counselling services
- > Forensic laboratories, and
- > biotechnology companies.

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Biology 1: Evolution, Ecology and Genetics	Chemistry 1	Elective	Elective
	2	Biology 2: Molecular and Cell Biology	Chemistry 2	Diversity of Life	Elective
2	1	Genes: Replication and Expression	Genetics	Genetics Elective	Elective
	2	Experimental Design and Analysis in Biology	Molecular Gene Technology	Elective	Elective
3	1	Genomics and its Applications	Genetics of Human Disease 1	3000 level Genetics Elective	Elective
	2	Bioinformatics and its Applications	3000 level Genetics Elective	3000 level Genetics Elective	Elective

\*Example study plan is a suggestion on how this program can be structured.



## STUDENT PROFILE

### Jessica Cregan Bachelor of Genetics

Jessica completed a genetic counselling internship at The Canberra Hospital as part of her biology major.

"I am so grateful to have had the experience of the internship. I have friends studying genetics at other universities and they can't believe I got to spend a week doing this."

 #50 in the world and #3 in Australia for Biological Sciences\*  
\*QS World University Rankings 2020

**W [science.anu.edu.au/study/bachelors/bachelor-genetics](http://science.anu.edu.au/study/bachelors/bachelor-genetics)**

# BACHELOR OF HEALTH SCIENCE

## Key facts

**Minimum entry requirements:** 90 ATAR, 6 OP, 34 IB

Due to the competitive and contextual nature of our selection process, we cannot guarantee entry to applicants who meet the minimum selection rank for their preferred program. For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 only

60 domestic places available in each cohort, a minimum of 15 of which are reserved for applicants for rural students. Additional places are available for Indigenous students.

The Bachelor of Health Science can also be taken as part of a Flexible Vertical Double Degree. See pages 22-24 for more information.

Some subjects have assumed knowledge, particularly in chemistry, mathematics and physics. See page 25 for more information on bridging courses.

**UAC code:** 138302

**CRICOS code:** 094623B

**Additional requirements:** A compulsory supplementary form must be submitted by 25 May for direct applications submitted to ANU or 30 November in the year of application for UAC applications.

## Further information

The Bachelor of Health Science offers competitive pathways into the ANU Doctor of Medicine and Surgery and Master of Public Health. Admission to the program is based on both academic record and a supplementary form where applicants showcase their individual achievements, contributions made to school and community organisations, volunteering and paid work, teamwork and leadership, and inform the selection panel of challenges faced and overcome. Access for rural and Indigenous students to reserved places aligns the program with national targets for proportional representation of the Australian society to produce graduates entering health and medicine careers.

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Health in the 21st Century	Human Biology	Applications of Health/ Pre-med stream course	Elective
	2	Biology 2: Molecular and Cell Biology	Research Methods in the Health Sciences	Applications of Health/ Pre-med stream course	Elective
2	1	Health Systems and Policy: An Introduction	Medical Physiology and Pharmacology	Applications of Health/ Pre-med stream course	Elective
	2	Introduction to Global Health: Issues, Theories and Practices	Pathogenesis of Human Disease	Introduction to Population Health	Elective
3	1	Aboriginal and Torres Strait Islander Health	Professional Practice in Health Science	Elective	Elective
	2	Health Promotion Principles and Practice	3000 level Science course	Elective	Elective

\*Example study plan is a suggestion on how this program can be structured.

## Program overview

The Bachelor of Health Science prepares you for a future in medical, allied health and health-related professions. During the first two years, students study the foundations of human health and disease. Topics include emerging health issues within Australia and globally, health governance and policy frameworks, research methods, and human physiology and disease. Students can elect to study the pathway to medicine plan by choosing to study chemistry and biochemistry or may use the program elective to study health-related courses. The final year is an equal mix of required courses and elective choices enabling students to pursue an area of academic interest, including commencing study of the Master of Public Health within the vertical double degree study plan. A range of honours study options are available for students interested in undertaking research after year 3.

## Career outcomes

You can launch your career path in medicine, allied health, health organisations and the public service, including in hospitals, public health units, healthcare foundations and academia.

You will graduate with an impressive skillset that includes knowledge of the biomedical sciences, an understanding of the biological, social and economic factors contributing to health outcomes, and research skills related to biomedical science, population health and public health policy.

**W [medicalschoo.anu.edu.au/study/pathway-programs](https://medicalschoo.anu.edu.au/study/pathway-programs)**

**W [health.anu.edu.au/study/bachelors/bachelor-health-science](https://health.anu.edu.au/study/bachelors/bachelor-health-science)**

# BACHELOR OF MATHEMATICAL SCIENCES

## Key facts

**Minimum entry requirements:** 95 ATAR, 4 OP, 37 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 only

70% minimum average required throughout degree

The Bachelor of Mathematical Sciences can also be combined with a Master of Secondary Teaching from the University of Canberra. See pages 22-24 for more information.

Maths prerequisite. See page 25 for more information on the bridging course.

**UAC code:** 138200

**CRICOS code:** 086223G

## Program overview

If you'd like to master quantitative problem-solving, mathematical modelling and critical thinking, this is the degree for you.

It is an elite, research-focused program for exceptional students at Australia's highest-ranked university.

## Career outcomes

This degree is designed for students who want a career based in the quantitative modelling of the real world, a research-oriented career in government, commerce or industry, or who are interested in pursuing postgraduate studies.

Our mathematics graduates have gone on to positions at:

- > CSIRO
- > Bureau of Meteorology
- > Geosciences Australia
- > Australian Signals Directorate
- > Macquarie Bank
- > Boston Consulting
- > Treasury
- > Australian Tax Office, and
- > Google.

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Advanced Mathematics and Applications 1	Introduction to Mathematical Thinking: Problem-Solving and Proofs	Elective	Elective
	2	Advanced Mathematics and Applications 2	Science elective	Elective	Elective
2	1	Applied Mathematics I	Advanced Analysis 1: Metric Spaces and Applications	Science elective	Elective
	2	Advanced Algebra 1: Groups, Rings and Linear Algebra	Science elective	Science elective	Elective
3	1	3000 level MATH course	3000 level MATH course	3000 level MATH course	Elective
	2	3000 level MATH course	3000 level MATH course	3000 level MATH course	Elective

\*Example study plan is a suggestion on how this program can be structured.



## GRADUATE PROFILE

### Vijay Boyapati

#### Bachelor of Science (Honours) (Mathematics and Computer Science) 2001

Before launching his own start-up, Vijay was a developer at Google where he put his Honours thesis on machine learning into practice by pioneering technology for Google News.

 #39 in the world and #3 in Australia for Mathematics\*  
\*QS World University Rankings 2020

**W [science.anu.edu.au/study/bachelors/bachelor-mathematical-sciences](http://science.anu.edu.au/study/bachelors/bachelor-mathematical-sciences)**

# BACHELOR OF MEDICAL SCIENCE

## Key facts

**Minimum entry requirements:** 90 ATAR, 6 OP, 34 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 only

65% minimum average required throughout degree

The Bachelor of Medical Science can also be taken as part of a Flexible Double Degree. See pages 22-24 for more information.

Chemistry prerequisite. See page 25 for more information on the bridging course.

**UAC code:** 138403

**CRICOS code:** 036662J

## Program overview

This degree brings the disciplines of genetics, immunology, nutrition, physiology, microbiology, biochemistry and anatomy into a single degree.

The flexibility of the degree allows you to choose additional subjects in complementary disciplines such as neuroscience, psychology, molecular biology and ethics in order to develop your interests further.

## Career outcomes

You'll gain the fundamental knowledge of the medical sciences and skills in modern molecular, cellular and biotechnological techniques required to continue with postgraduate study in medicine or research. You can also pursue a career in pharmacy, physiotherapy, nutrition, dietetics, forensic science or health administration in the public or private sectors.

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Biology 1: Evolution: Ecology & Genetics	Chemistry 1	Elective	Elective
	2	Biology 2: Molecular & Cell Biology	Chemistry 2	Elective	Elective
2	1	Medical Physiology and Pharmacology	Genes: Replication & Expression	Biochemistry & Nutrition	Elective
	2	General Microbiology	Medical Science elective	Medical Science elective	Elective
3	1	Medical Science elective	Medical Science elective	Medical Science elective	Elective
	2	Medical Science in the Workplace	Medical Science elective	Medical Science elective	Elective

\*Example study plan is a suggestion on how this program can be structured.



## STUDENT PROFILE

### Sam Kwong

#### Bachelor of Medical Science

Sam started off studying business and accounting, but felt like he could make more of an impact in a laboratory.

“Working only to make money and to make the most profit wasn’t for me. I wanted to make a contribution to society, like finding a cure for disease. That’s why I chose science.”

 #6 in Australia for Medicine\*  
\*QS World University Rankings 2020

# BACHELOR OF PHILOSOPHY (HONOURS) (PHB)

## Key facts

**Minimum entry requirements:** 99 ATAR, 1 OP, 42 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 4 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

75% minimum average required throughout degree

Honours (one year of research and a thesis)

Some subjects have assumed knowledge, particularly in chemistry, mathematics and physics. See page 25 for more information on bridging courses.

**UAC code:** 138000

**CRICOS code:** 043746B

## Program overview

There's no other degree like it in Australia. Explore your interests by undertaking research as an undergraduate student and receiving one-on-one mentoring by leading academics, all while enjoying the camaraderie of a group of like-minded students.

## Career outcomes

Many of our graduates have used the PhB program as a pathway to completing PhDs in some of the best universities around the world. The PhB can also provide a pathway to the Doctor of Medicine and Surgery (MChD) without having to sit the GAMSAT.

**W [medicalschool.anu.edu.au/study/pathway-programs](http://medicalschool.anu.edu.au/study/pathway-programs)**

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Science course (Advanced Studies Extension)	Science course	Science course	Elective
	2	Science course (Advanced Studies Extension)	Science course	Science course	Elective
2	1	Science course (Advanced Studies Extension)	Science course	Science course	Elective
	2	Advanced Studies Course	Science course	Science course	Elective
3	1	Advanced Studies Course	Science course	Elective	Elective
	2	Advanced Studies Course	Science course	Elective	Elective
4	1	Honours			
	2	Honours			

\*Example study plan is a suggestion on how this program can be structured.

## Bachelor of Philosophy (Honours) [ANU]/ Bachelor of Science (Honours) [NUS]

Combine your PhB from ANU with a Bachelor of Science from the National University of Singapore (NUS). Spend three semesters in residence and write your Honours thesis at ANU, and spend the other three semesters at NUS.

**Three majors available:** Chemistry, Mathematics or Physics

**UAC code:** 138005

**CRICOS code:** 054595K



## GRADUATE PROFILE

### Lachlan Arthur

#### Bachelor of Philosophy (Honours) (PhB) 2018

"The PhB gave me the ultimate flexibility for my undergraduate degree. It meant that I could tailor my degree to my interests while also having the ability to fit in research projects and study abroad opportunities. The program set me up to continue my research career alongside postgraduate clinical medicine."

**W [science.anu.edu.au/study/bachelors/bachelor-philosophy-honours](http://science.anu.edu.au/study/bachelors/bachelor-philosophy-honours)**

**W [programsandcourses.anu.edu.au/program/APNSC](http://programsandcourses.anu.edu.au/program/APNSC)**

# BACHELOR OF PSYCHOLOGY (HONOURS)

## Key facts

**Minimum entry requirements:** 95 ATAR, 4 OP, 37 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 4 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

75% minimum average required throughout degree

Honours (One year of research and a thesis)

**UAC code:** 138130

**CRICOS code:** 036680G

## Program overview

Explore the research and applied components of psychology, with the opportunity to specialise in an area of interest when completing Honours in your fourth year.

## Career outcomes

This program prepares you for postgraduate study, leading to a career in clinical practice or academic research.

The program is also a fantastic launch pad for a range of careers, including:

- > research
- > management consulting
- > human resources
- > marketing
- > public policy
- > universities
- > private and public sector
- > community services
- > counselling, and
- > clinical practice.



## ACADEMIC PROFILE

### Dr Dirk Van Rooy

#### Research School of Psychology

Dr Van Rooy is a senior lecturer in social psychology. As a social psychologist he investigates, among many other things, prejudice, discrimination, and social influence.

 #31 in the world and #5 in Australia for Psychology\*  
\*QS World University Rankings 2020

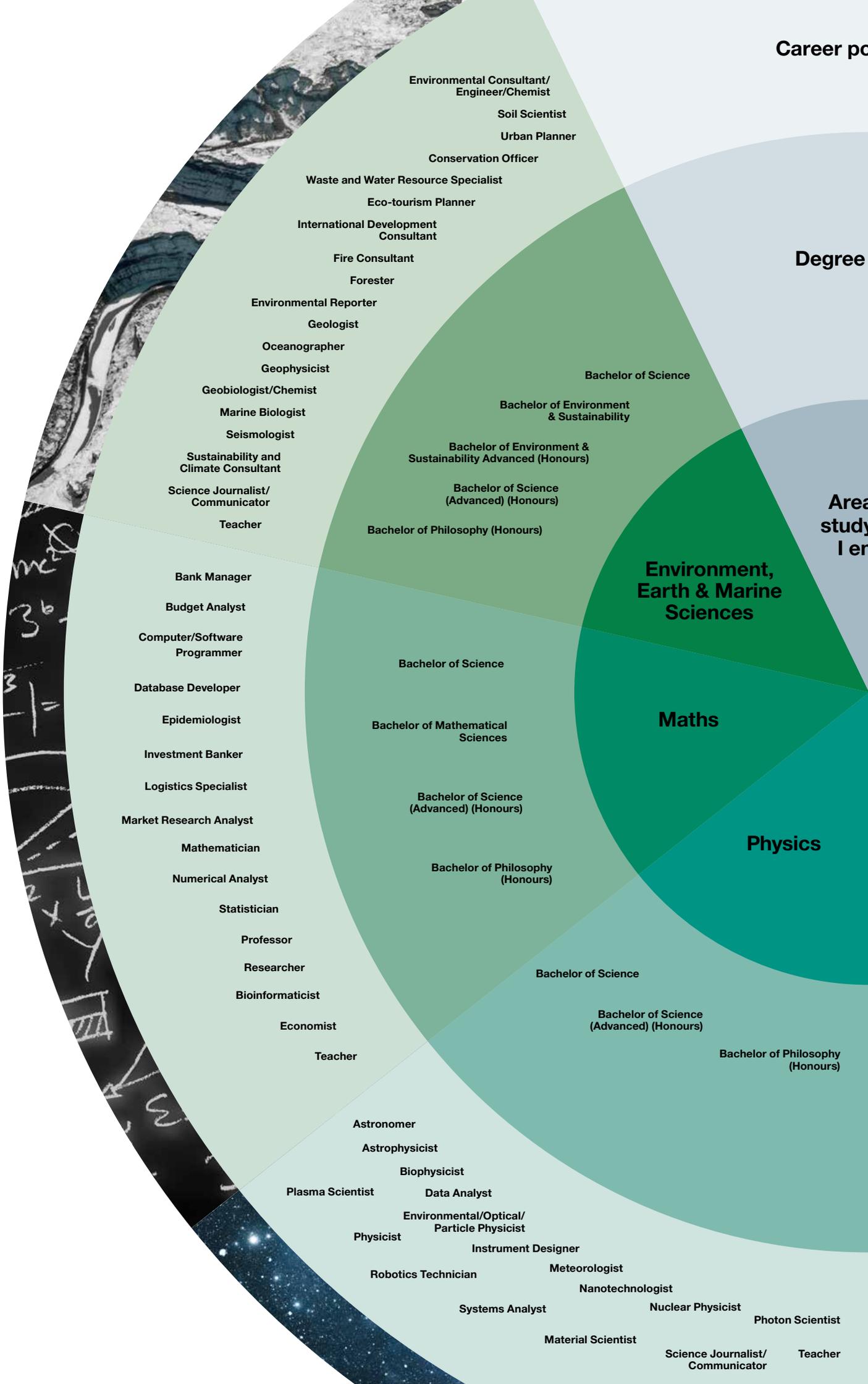
## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Psychology 1: Understanding Mind, Brain and Behaviour	Science elective	Elective	Elective
	2	Psychology 2: Understanding People in Context	Science elective	Elective	Elective
2	1	Developmental Psychology	Science elective	Quantitative Methods in Psychology	Elective
	2	Social Psychology	Cognition	Biological Basis of Behaviour	Elective
3	1	Psychopathology Across the Lifespan	Advanced Research Methods	3000 level PSYC course	Elective
	2	Personality Psychology	3000 level PSYC course	3000 level PSYC course	Elective
4	1	Psychology Honours			
	2	Psychology Honours			

\*Example study plan is a suggestion on how this program can be structured.

W [health.anu.edu.au/study/bachelors/bachelor-psychology](http://health.anu.edu.au/study/bachelors/bachelor-psychology)

# TURN YOUR PASSION INTO YOUR CAREER



Career po

Degree

Area  
study  
I en

**Environment,  
Earth & Marine  
Sciences**

**Maths**

**Physics**

Environmental Consultant/  
Engineer/Chemist

Soil Scientist

Urban Planner

Conservation Officer

Waste and Water Resource Specialist

Eco-tourism Planner

International Development  
Consultant

Fire Consultant

Forester

Environmental Reporter

Geologist

Oceanographer

Geophysicist

Geobiologist/Chemist

Marine Biologist

Seismologist

Sustainability and  
Climate Consultant

Science Journalist/  
Communicator

Teacher

Bachelor of Science

Bachelor of Environment  
& Sustainability

Bachelor of Environment &  
Sustainability Advanced (Honours)

Bachelor of Science  
(Advanced) (Honours)

Bachelor of Philosophy (Honours)

Bank Manager

Budget Analyst

Computer/Software  
Programmer

Database Developer

Epidemiologist

Investment Banker

Logistics Specialist

Market Research Analyst

Mathematician

Numerical Analyst

Statistician

Professor

Researcher

Bioinformaticist

Economist

Teacher

Bachelor of Science

Bachelor of Mathematical  
Sciences

Bachelor of Science  
(Advanced) (Honours)

Bachelor of Philosophy  
(Honours)

Bachelor of Science

Bachelor of Science  
(Advanced) (Honours)

Bachelor of Philosophy  
(Honours)

Astronomer

Astrophysicist

Biophysicist

Plasma Scientist

Data Analyst

Environmental/Optical/  
Particle Physicist

Physicist

Instrument Designer

Robotics Technician

Meteorologist

Nanotechnologist

Systems Analyst

Nuclear Physicist

Photon Scientist

Material Scientist

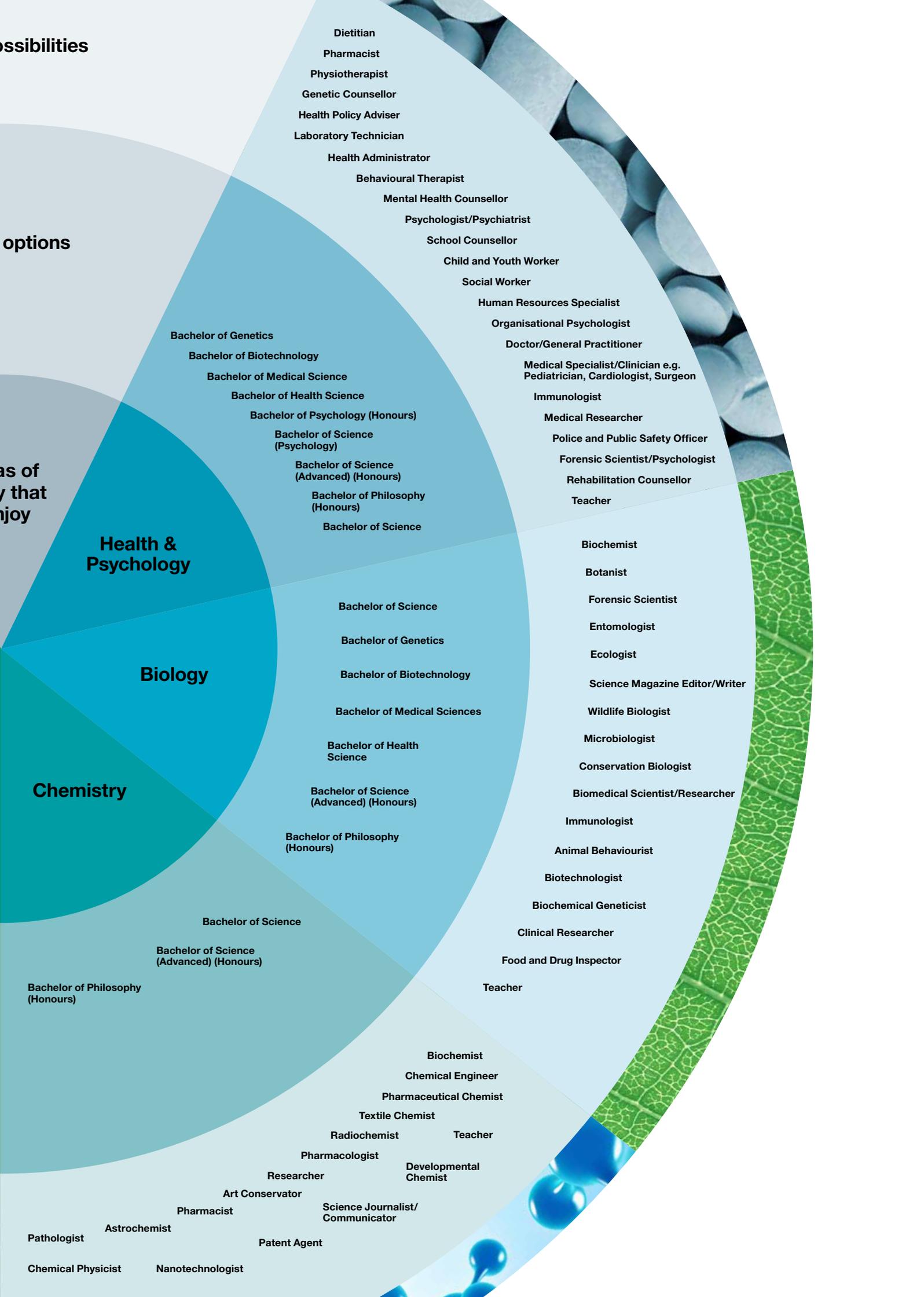
Science Journalist/  
Communicator

Teacher

possibilities

options

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y that  
enjoy



### Health & Psychology

- Bachelor of Genetics
- Bachelor of Biotechnology
- Bachelor of Medical Science
- Bachelor of Health Science
- Bachelor of Psychology (Honours)
- Bachelor of Science (Psychology)
- Bachelor of Science (Advanced) (Honours)
- Bachelor of Philosophy (Honours)
- Bachelor of Science

- Dietitian
- Pharmacist
- Physiotherapist
- Genetic Counsellor
- Health Policy Adviser
- Laboratory Technician
- Health Administrator
- Behavioural Therapist
- Mental Health Counsellor
- Psychologist/Psychiatrist
- School Counsellor
- Child and Youth Worker
- Social Worker
- Human Resources Specialist
- Organisational Psychologist
- Doctor/General Practitioner
- Medical Specialist/Clinician e.g. Pediatrician, Cardiologist, Surgeon
- Immunologist
- Medical Researcher
- Police and Public Safety Officer
- Forensic Scientist/Psychologist
- Rehabilitation Counsellor
- Teacher

### Biology

- Bachelor of Science
- Bachelor of Genetics
- Bachelor of Biotechnology
- Bachelor of Medical Sciences
- Bachelor of Health Science
- Bachelor of Science (Advanced) (Honours)
- Bachelor of Philosophy (Honours)

- Biochemist
- Botanist
- Forensic Scientist
- Entomologist
- Ecologist
- Science Magazine Editor/Writer
- Wildlife Biologist
- Microbiologist
- Conservation Biologist
- Biomedical Scientist/Researcher
- Immunologist
- Animal Behaviourist
- Biotechnologist
- Biochemical Geneticist
- Clinical Researcher
- Food and Drug Inspector
- Teacher

### Chemistry

- Bachelor of Science
- Bachelor of Science (Advanced) (Honours)
- Bachelor of Philosophy (Honours)

- Biochemist
- Chemical Engineer
- Pharmaceutical Chemist
- Textile Chemist
- Radiochemist
- Teacher
- Pharmacologist
- Researcher
- Art Conservator
- Pharmacist
- Science Journalist/Communicator
- Developmental Chemist
- Astrochemist
- Pathologist
- Patent Agent
- Chemical Physicist
- Nanotechnologist

# BACHELOR OF SCIENCE (PSYCHOLOGY)

## Key facts

**Minimum entry requirements:** 80 ATAR, 10 OP, 29 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

The Bachelor of Science (Psychology) can also be taken as part of a Flexible Double Degree. See pages 22-24 for more information.

**UAC code:** 138123

**CRICOS code:** 047423M

## Program overview

The Bachelor of Science (Psychology) provides you with a great base in six different areas of psychology: developmental, social, personality, methods, cognition and biological.

## Career outcomes

Psychology graduates have skills essential to any workplace: an understanding of human motivation and behaviour, analytical skills and statistics.

The Bachelor of Science (Psychology) is a fantastic launch pad for a range of careers, including:

- > research
- > management consulting
- > human resources
- > public policy
- > counselling
- > child development and welfare
- > health and human services
- > education, and
- > clinical practice.

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Psychology 1: Understanding Mind, Brain and Behaviour	Science elective	Elective	Elective
	2	Psychology 2: Understanding People in Context	Science elective	Elective	Elective
2	1	Developmental Psychology	Science elective	Quantitative Methods in Psychology	Elective
	2	Social Psychology	Cognition	Biological Basis of Behaviour	Elective
3	1	Psychopathology Across the Lifespan	Advanced Research Methods	3000 level PSYC course	Elective
	2	Personality Psychology	3000 level PSYC course	3000 level PSYC course	Elective

\*Example study plan is a suggestion on how this program can be structured.



## STUDENT PROFILE

### Brianna Woodhead

#### Bachelor of Laws/ Bachelor of Science (Psychology)

"I chose to study psychology because it's such a big part of life. Studying psychology will enable me to understand, relate with, and help everyone around me. I know it sounds idealistic, but wherever I end up working, that will be one thing that will be useful wherever I go."

 #31 in the world and #5 in Australia for Psychology\*  
\*QS World University Rankings 2020

# BACHELOR OF SCIENCE

## Key facts

**Minimum entry requirements:** 80 ATAR, 10 OP, 29 IB

For further details on admission requirements please see pages 18-21.

**Duration:** 3 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

The Bachelor of Science can also be taken as part of a Flexible Double Degree, Flexible Vertical Double Degree, or combined with a Master of Secondary Teaching from the University of Canberra. See pages 22-24 for more information.

Some subjects have assumed knowledge, particularly in chemistry, mathematics and physics. See page 25 for more information on bridging courses.

**UAC code:** 138003

**CRICOS code:** 000335K

## Program overview

Explore the possibilities of science from astronomy to zoology and everything in between with our most flexible science degree. Tailor a program to your unique interests while giving you the broad critical-thinking and problem-solving skills needed for the workforce.

## Career outcomes

- > Policy advisor
- > Consultant
- > Science journalist
- > Science teacher
- > Environmental scientist
- > Research officer at scientific organisation (CSIRO)
- > Liaison officer at pharmaceutical company

## Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4
1	1	Major	Minor	Science Elective	Elective
	2	Major	Minor	Science Elective	Elective
2	1	Major	Minor	Science Elective	Elective
	2	Major	Major	Science Elective	Elective
3	1	Major	Minor	Elective	Elective
	2	Major	Major	Elective	Elective

\*Example study plan is a suggestion on how this program can be structured.

## Bachelor of Science (Advanced) (Honours) option available

**Entry requirements:** 95 ATAR, 4 OP, 37 IB

**Duration:** 4 years full-time

**Intake:** Semester 1 & 2 (commencing your studies in Semester 2 may limit course choices)

70% minimum average required throughout degree

**UAC code:** 138004

**CRICOS code:** 065138M



## STUDENT PROFILE

### Sasha Whittle

#### Bachelor of Science/ Bachelor of Arts

Sasha's focus is in silversmithing as well as chemistry, and she explains that the two fields actually go hand-in-hand; with chemistry helping to inform her jewellery making.

"My knowledge in chemistry helps me all the time when I'm making things. For example, when I learned how to do aluminum anodising (putting colour onto aluminum) I could process what was happening and pinpoint where I was going right or wrong."

**W** [science.anu.edu.au/study/bachelors/bachelor-science](http://science.anu.edu.au/study/bachelors/bachelor-science)

**W** [science.anu.edu.au/study/bachelors/bachelor-science-advanced](http://science.anu.edu.au/study/bachelors/bachelor-science-advanced)

# HOW TO APPLY

## Apply direct to ANU

### 1. Check you're eligible to submit a direct Admission, Scholarships and Accommodation application

- > You can complete a direct application if you are a domestic Australian school leaver in 2020, wanting to apply for an undergraduate program that starts in 2021.
- > Undergraduate Australian students who apply to commence study at ANU in 2021 will be given an offer based on their Year 11 performance – they just need to complete Year 12. Students who didn't do as well as hoped in Year 11 should not worry. With the aim of being as flexible as possible, if a student's Year 12 results are better, we can look at those instead of their Year 11 results.
- > Australian school leavers mean those who will complete an Australian Year 12 or International Baccalaureate Diploma (November session).
- > You can also apply for campus accommodation and all available scholarships in the same application.

### 2. Consider which programs are best for you

- > Choose from over 50 bachelor degrees, or combine degrees to study a flexible double degree program. To find out which degree suits your interests and career goals, see pages 6 to 17, or check out the career wheel on pages 14 and 15 for some career possibilities.
- > Some degrees require you to have studied specific subjects in Year 12. Before you apply, make sure you're eligible for your chosen degree by checking the prerequisites on page 5.

### 3. Check you meet the co-curricular or service requirement

- > All domestic school leavers are required to meet the requirement.
- > You can find out more about the requirement on pages 20 and 21.

### 4. Apply direct to ANU

- > Great work! You're now ready to apply.
- > Remember applications open on 4 March 2020 and close on 25 May 2020.

## Direct application dates

- > **4 March 2020**  
Direct applications to ANU open
- > **25 May 2020**  
Direct applications to ANU close
- > **10 August 2020**  
Conditional offers released
- > **7 September 2020**  
Conditional offer acceptance deadline
- > **14 December 2020**  
ATARs begin to be released
- > **From late December 2020**  
Final offers begin to be released
- > **January 2021**  
Final offer acceptance deadline
- > **15 February 2021**  
ANU Orientation Week
- > **22 February 2021**  
Classes commence

## Apply through UAC

If you do not meet the criteria to submit a direct application to ANU, don't worry, you can apply to ANU via UAC (The Universities Admissions Centre). You can submit a UAC application if you're:

- > not a school-leaver, e.g., a gap year student
- > seeking admission as a mature-age applicant
- > transferring from another institution
- > otherwise not a domestic Australian school-leaver.

## UAC application dates

- > **August 2020**  
UAC applications open
- > **2021 Closing date**  
Refer to [uac.edu.au](http://uac.edu.au)

# ADJUSTMENT FACTORS

ANU Bachelor degree programs with a minimum selection rank requirement of 80.00-97.00 may receive up to 5 subject/performance-based and 10 equity-based adjustment factors. ANU Bachelor degree programs with a minimum selection rank requirement of 98.00 or above may receive up to 5 equity-based adjustment factors. ANU allocates National Access Scheme adjustment factors for high achievement in nationally strategic senior secondary subjects and in recognition of difficult circumstances that you may have faced in your studies. Refer to [anu.edu.au/study/apply/national-access-scheme](http://anu.edu.au/study/apply/national-access-scheme)

You may be considered for adjustment factors if you have:

- > applied directly to ANU or through UAC for an eligible ANU Bachelor degree program
- > achieved an ATAR or equivalent at or above 70
- > not previously attempted tertiary study.
- > undertaken Australian Year 12 or International Baccalaureate

## Educational Access Scheme (Equity) Schedule Domestic Applicants

EAS type	Equity adjustments	EAS category and description
Financial hardship	Up to 6	F01A–Youth Allowance/Austudy/Abstudy
	Up to 6	F01B–Other Centrelink income
	Up to 6	F01C–Exceptional financial hardship
	6	F01D–Parental Family Tax Benefit Part A
Severe family disruption	Up to 5	H01A–Death of immediate family member/close friend
	Up to 5	H01B–Life-threatening or severe illness of immediate family
	Up to 5	H01C–Divorce or separation of parents or applicant
	Up to 5	H01D–Legal matters
	6	H04B – Currently or previously placed with an OOHc provider
Refugee status	6	R01A–Refugee status

EAS type	Equity adjustments	EAS category and description
Excessive family responsibility	Up to 6	H03A–Care of children/other family members
	Up to 6	H03B–Required to work to support family
	Up to 3	H03C–Sole responsibility for care of self
Abuse	Up to 5	H04A–Abuse to applicant, parent/s, or sibling/s
English language difficulty	Up to 3	L01A–ESL/started school in Australia in Year 11 or 12
Personal illness / disability	Up to 5	P01A–Disability or long-term medical condition
School environment	Up to 3	S01C–Rural school
	Up to 5	S01D–Studying Year 12 subjects by distance education or Access program
	6	AG01 – Residing in a low socio-economic area.

**Disclaimer:** Correct at time of print May 2020. Adjustment factors are reviewed annually, please refer to [anu.edu.au/study/apply/anu-adjustment-factors](http://anu.edu.au/study/apply/anu-adjustment-factors)

### Elite Athlete Adjustments

ANU is an Elite Athlete Friendly University. We will provide additional support if you are recognised as an elite athlete by the Australian Sports Commission's AIS Personal Excellence program. If you are an elite athlete or sporting coach, you may be eligible for five elite athlete adjustments.

- > [anu.edu.au/students/health-safety-wellbeing/access-inclusion/anu-student-elite-athlete-program](http://anu.edu.au/students/health-safety-wellbeing/access-inclusion/anu-student-elite-athlete-program)



# THE CO-CURRICULAR OR SERVICE REQUIREMENT

To apply to ANU, you have to meet our co-curricular or service requirements\*. Check to see if you have met the requirements before you apply.

## Skill to succeed

The skills you gain outside of the classroom matter. These experiences will help you succeed at university and increase your employability upon graduation. At ANU you'll have the opportunity to develop these skills further through participating in internships, international exchange programs and much more.

In your application, you will have the opportunity to tell us what you learnt outside the classroom. These include activities such as volunteering, part-time work, caring for a family member or playing sport.

## Meeting the co-curricular or service requirement

To gain admission to ANU, you will be required to meet the co-curricular or service requirement in addition to meeting the academic requirements for your preferred ANU program. The matrix on the next page provides examples of the type of activities that we recognise.

Each activity is mapped against seven skills:

- > Creative and Critical Thinking
- > Community Engagement
- > Inclusion and Awareness of Diversity
- > Communication
- > Leadership
- > Personal Responsibility
- > Teamwork

You have met the co-curricular or service requirement when you can demonstrate that you've attained **at least three of seven skills**.

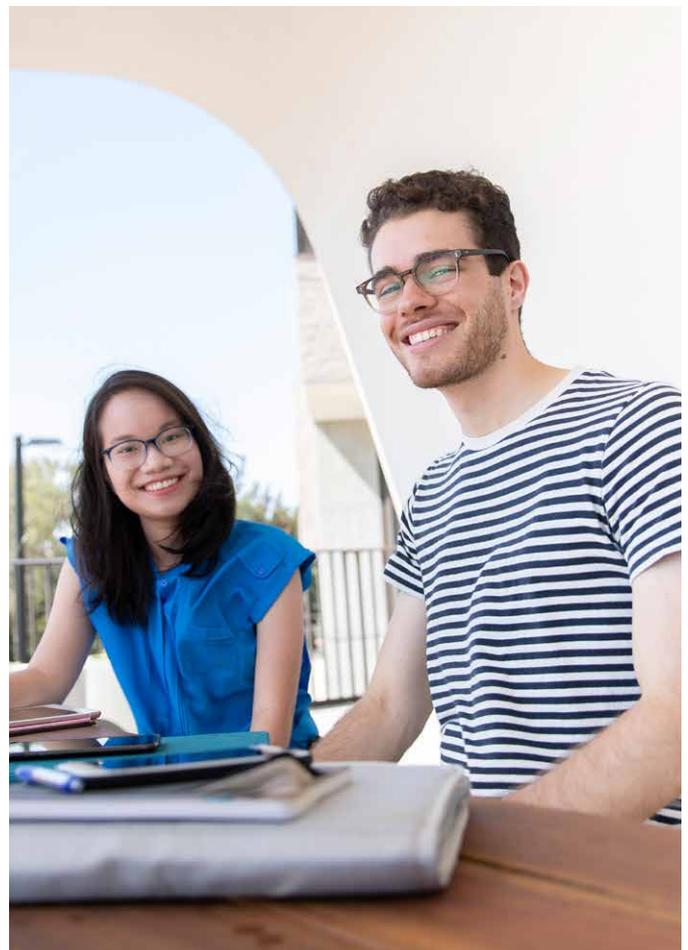
## How the co-curricular or service requirement works

- > The co-curricular or service requirement is a threshold which is either met or not met. We won't rank you against other applicants.

- > The requirement won't modify your ATAR or ANU selection rank. You must meet it in addition to other admission requirements that apply to your preferred program.
- > The requirements can be met through activities that were completed in Years 10, 11 or 12; and must be met at the time of application.
- > Supporting documentation must be submitted to confirm your participation in activities. Example documentation and templates are available for download.

For more information and to check if you've met the co-curricular or service requirement, see:

[anu.edu.au/study/apply](https://anu.edu.au/study/apply)



\* If you are a domestic Australian school leaver in 2020, wanting to apply for an undergraduate degree starting in 2021.



# DEGREE PROGRAMS

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## Flexible Double Degrees

W [anu.edu.au/study/study-options/flexible-double-degrees](http://anu.edu.au/study/study-options/flexible-double-degrees)

### Bachelor degree + Bachelor degree

Study two undergraduate degrees at the same time and graduate with two qualifications.

- > Double your job prospects
- > It takes less time than studying two undergraduate degrees separately
- > Same full-time workload per year as studying a single undergraduate degree

---

## Flexible Vertical Double Degrees

W [anu.edu.au/study/study-options/vertical-double-degrees](http://anu.edu.au/study/study-options/vertical-double-degrees)

### Bachelor degree + Master degree

Expand your career options with two qualifications.

- > In a Flexible Vertical Double Degree (FVDD) you can study a Bachelor and a Master in a shorter time.
- > Typically takes four years to complete.
- > Save on time and cost when compared with studying a Bachelor and Master separately.

---

#### Science Bachelor options

- > Biotechnology\*
- > Environment & Sustainability
- > Genetics\*
- > Health Science
- > Science

#### Master options

- > Environment
- > Public Health
- > Science

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## Pathway to secondary teaching with the University of Canberra

W [science.anu.edu.au/study/pathway-secondary-teaching-uc](http://science.anu.edu.au/study/pathway-secondary-teaching-uc)

ANU and the University of Canberra have collaborated to create degree offerings for ANU science, health and medicine students which offer you a direct pathway to becoming a secondary teacher.

By combining a Bachelor degree from ANU with a Master of Secondary Teaching from UC, you will graduate with both an undergraduate and postgraduate degree.

### The joint degree is offered for the following programs:

- > Bachelor of Mathematical Sciences
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)

---

\*Program includes another prerequisite in addition to selection rank.

## What are majors, minors and specialisations?

Majors, minors and specialisations are groups of courses with a common theme that demonstrate you have concentrated your studies in a certain area. Each of the courses you take is worth a certain number of units, depending on how involved they are. Majors are 48 units, typically 8 courses, and are required to complete some degrees. Minors are 24 units, typically 4 courses. Specialisations also require 24 units but must be taken in conjunction with an associated major.

### Majors, minors and specialisations are only required in the following degrees:

- > Bachelor of Environment & Sustainability
- > Bachelor of Environment & Sustainability Advanced (Honours)
- > Bachelor of Science
- > Bachelor of Science (Advanced) (Honours)

# FLEXIBLE DOUBLE DEGREES

Looking for a degree with your name on it? Design your own Flexible Double Degree by choosing from over 750 possible degree combinations.

## Arts, Social Sciences, Business or Science

### Four years full-time

Combine any two of the following degrees

Bachelor of	2019 Selection Rank
Accounting <sup>2</sup>	87
Actuarial Studies <sup>4</sup>	97
Applied Data Analytics	95
Archaeological Practice	80
Art History and Curatorship	80
Arts	80
Asian Studies	80
Biotechnology <sup>4,5</sup>	80
Business Administration	86
Classical Studies	80
Commerce <sup>2,3</sup>	86
Criminology	80
Design	A+C
Development Studies	80
Economics	87
Environment and Sustainability	80
European Studies	80
Finance <sup>3</sup>	87
Genetics <sup>4,5</sup>	90
Information Technology <sup>4</sup>	80
International Relations	90
International Security Studies	90
Languages	80
Mathematical Sciences <sup>4</sup>	95
Medical Science <sup>4,5</sup>	90
Middle Eastern and Central Asian Studies	80
Music <sup>1</sup>	80
Pacific Studies	80
Public Policy	90
Political Science	90
Politics, Philosophy and Economics	96
Science	80
Science (Psychology)	80
Statistics <sup>4</sup>	87
Visual Arts	A+C

## Law

### Five years full-time

Choose

Bachelor of	2019 Selection Rank
Laws (Hons)	98
<b>and combine with one of the following degrees</b>	
Accounting	87
Actuarial Studies <sup>4</sup>	97
Applied Data Analytics	95
Archaeological Practice	80
Art History and Curatorship	80
Arts	80
Asian Studies	80
Biotechnology <sup>4</sup>	80
Business Administration	86
Classical Studies	80
Commerce	86
Criminology	80
Design	A+C
Development Studies	80
Economics	87
Environment and Sustainability	80
European Studies	80
Finance	87
Genetics <sup>4</sup>	90
Information Technology <sup>4</sup>	80
International Relations	90
International Security Studies	90
Languages	80
Mathematical Sciences <sup>4</sup>	95
Medical Science <sup>4</sup>	90
Middle Eastern and Central Asian Studies	80
Music <sup>1</sup>	80
Pacific Studies	80
Public Policy	90
Political Science	90
Politics, Philosophy and Economics	96
Science	80
Science (Psychology)	80
Statistics <sup>4</sup>	87
Visual Arts	A+C

## Engineering or Advanced Computing

### Five years full-time

Choose one of the following degrees

Bachelor of	2019 Selection Rank
Advanced Computing (Hons) <sup>4</sup>	90
Advanced Computing (R&D) (Hons) <sup>4</sup>	99
Engineering (Hons) <sup>4</sup>	90
Engineering (R&D) (Hons) <sup>4,6</sup>	99
Software Engineering (Hons) <sup>4</sup>	90
<b>and combine with one of the following degrees</b>	
Accounting <sup>6</sup>	87
Actuarial Studies <sup>4</sup>	97
Applied Data Analytics	95
Archaeological Practice <sup>6</sup>	80
Arts	80
Art History and Curatorship <sup>6</sup>	80
Asian Studies <sup>6</sup>	80
Biotechnology <sup>4,6</sup>	80
Business Administration	86
Classical Studies <sup>6</sup>	80
Commerce	86
Criminology <sup>6</sup>	80
Design	A+C
Development Studies <sup>6</sup>	80
Economics	87
Environment and Sustainability	80
European Studies <sup>6</sup>	80
Finance <sup>3</sup>	87
Genetics <sup>4,6</sup>	90
Information Technology <sup>5</sup>	80
International Relations <sup>6</sup>	90
International Security Studies	90
Languages	80
Mathematics Sciences <sup>4</sup>	95
Medical Studies <sup>4,6</sup>	90
Music <sup>1,6</sup>	80
Pacific Studies	80
Politics Philosophy and Economics <sup>6</sup>	96
Political Science <sup>6</sup>	90
Public Policy <sup>6</sup>	90
Science	80
Science (Psychology)	80
Statistics <sup>4</sup>	87
Visual Arts <sup>6</sup>	A+C

A+C: Minimum selection rank + conditions apply including interview/portfolio.

See [soa.anu.edu.au/apply](http://soa.anu.edu.au/apply) for more information.

1 Entrance to performance courses are by audition. E [schoolofmusic@anu.edu.au](mailto:schoolofmusic@anu.edu.au)

2 Commerce with an accounting major cannot be combined with Bachelor of Accounting.

3 Commerce with a finance major cannot be combined with Bachelor of Finance.

4 Program includes another prerequisite in addition to minimum selection rank. See pages 4-5.

5 The degrees of Biotechnology, Genetics and Medical Sciences cannot be combined with one another. The degrees of Advanced Computing and Software Engineering cannot be combined with Information Technology.

6 The Bachelor of Engineering (R&D) (Hons) cannot be combined with any of these degrees.

# PUTTING THEM TOGETHER

The courses you take will depend on the structure of your degree and any majors or areas of specialisation you choose to focus on during your studies at ANU.

## Single Degree

e.g. Bachelor of Science

Year	Semester	Courses			
1	1	Science Major	Science Minor	Science Elective	Elective
	2	Science Major	Science Minor	Science Elective	Elective
2	1	Science Major	Science Minor	Science Elective	Elective
	2	Science Major	Science Minor	Science Elective	Elective
3	1	Science Major	Science Major	Science Elective	Elective
	2	Science Major	Science Major	Science Elective	Elective

## Flexible Double Degree

Four year double degree e.g. Bachelor of Science/Bachelor of Arts

Year	Semester	Courses			
1	1	Science Major	Science Minor	Arts Major	Arts Minor
	2	Science Major	Science Minor	Arts Major	Arts Minor
2	1	Science Major	Science Minor	Arts Major	Arts Minor
	2	Science Major	Science Minor	Arts Major	Arts Minor
3	1	Science Major	Science elective	Arts Major	Arts Elective
	2	Science Major	Science elective	Arts Major	Arts Elective
4	1	Science Major	Science elective	Arts Major	Arts Elective
	2	Science Major	Science elective	Arts Major	Arts Elective

## Flexible Vertical Double Degree

Four year vertical double degree e.g. Bachelor of Science/Master of Science in Quantum Technology

Year	Semester	Courses			
1	1	Science Major	Science Minor	Science Elective	Elective
	2	Science Major	Science Minor	Science Elective	Elective
2	1	Science Major	Science Major	Science Minor	Elective
	2	Science Major	Science Major	Science Minor	Elective
3	1	Science Major	Science Elective	Fundamentals of Noise and Measurement	Quantum Mechanics List
	2	Science Major	Science Elective	Physics for Future Leaders (Science & Society)	Quantum Technology Elective
4	1	Special Topics in Quantum Technology	Special Topics in Quantum Technology	Rapid Prototyping and Systems Integration	Quantum Technology Elective
	2	Quantum Technology	Quantum Industry (Science & Society)	Rapid Prototyping and Systems Integration	Quantum Technology Elective

# FEES, SCHOLARSHIPS & PATHWAYS

## Fees

Australian domestic undergraduate students are eligible for a Commonwealth Supported Place (CSP). This means that your tuition fees are subsidised by the Australian Government.

University tuition fees are charged based on your enrolment. Fees are not a set amount based on the degree you take, each course you enrol in has an associated fee that may be different to your other courses. From year to year tuition fee rates change. They can change for a number of reasons including those set by the University and those set by the Australian government. Specific course fee amounts are listed in the relevant course entry at [programsandcourses.anu.edu.au](http://programsandcourses.anu.edu.au)

For the most up-to-date information about university tuition fees in Australia for domestic students, go to [studyassist.gov.au](http://studyassist.gov.au)

## Fee help and financial assistance

Financial help is available to eligible students from the Australian Government through various schemes.

**HECS-HELP** is a loan program to help eligible students pay their student contribution. For details head to [studyassist.gov.au](http://studyassist.gov.au)

**Youth Allowance** is financial help available to eligible full-time students aged between 16 and 24 years of age. For details go to [humanservices.gov.au/individuals/services/centrelink/youth-allowance-students-and-australian-apprentices](http://humanservices.gov.au/individuals/services/centrelink/youth-allowance-students-and-australian-apprentices)

**ABSTUDY** is available to eligible Aboriginal and Torres Strait Islander students. For details go to [humanservices.gov.au/individuals/services/centrelink/abstudy](http://humanservices.gov.au/individuals/services/centrelink/abstudy)

**SA-HELP** is available to enable eligible students at ANU and other Australian universities to defer paying the Student Services and Amenities Fee (SA fee). For details go to [studyassist.gov.au/help-loans/sa-help](http://studyassist.gov.au/help-loans/sa-help)

For up-to-date information about the Student Services and Amenities Fee go to [anu.edu.au/students/program-administration/costs-fees/services-amenities-fee](http://anu.edu.au/students/program-administration/costs-fees/services-amenities-fee)

## Scholarships

ANU offers a wide range of scholarships to help make university more affordable. Scholarships are awarded for a range of criteria including academic merit, financial need, and equity and accessibility. Domestic students are automatically assessed for scholarships in the direct application process. For more information, visit [anu.edu.au/scholarships](http://anu.edu.au/scholarships)

## Bridging courses

If the program you are interested in in studying requires completion of mathematics or chemistry, you have the option of completing a bridging course. For applicants who have not completed the prerequisites, bridging courses can give you the equivalent skills.

The chemistry bridging course is offered through the ANU Research School of Chemistry  
[chemistry.anu.edu.au/study/bridging-course](http://chemistry.anu.edu.au/study/bridging-course)

The mathematics bridging course is offered through the ANU Mathematical Sciences Institute  
[maths.anu.edu.au/study/bridging-course](http://maths.anu.edu.au/study/bridging-course)

## Alternate pathways

Pathways may be available to students who do not meet the minimum admission requirements.

For more information, visit [anucollege.edu.au](http://anucollege.edu.au)

## Transferring from another University

Transferring between universities is almost the same as applying for the first time. That means you will need to apply through UAC (see How to apply). If you have completed one year or more at another university you will be assessed on the basis of your tertiary results.

## Mature age entry

If you are not a recent school-leaver, you might qualify for mature age or adult entry. You may still qualify for admission to ANU on the basis of previous studies.

There are a number of pathways into university studies for the mature-aged student. Consider the ANU Special Adult Entry Scheme or the University Preparation Scheme.

More information about the various mature age entry options can be found at [students.anu.edu.au/applications/mature](http://students.anu.edu.au/applications/mature)

# INTERNSHIPS

Apply for our official internship program to work in an organisation on an agreed project, earning course credit during a semester. As an intern, you will get hands on work experience that will put you ahead of the competition when it's time to graduate. And did we mention you'll get credit towards your degree?

The internship program is an opportunity for you to work in an organisation for 1-2 days a week in a semester. Opportunities may exist for intensive internships during semester breaks, with a greater time commitment over a shorter period. The number of internships available each semester is based on the available number of projects from host organisations.

## Examples of internship opportunities

### Airservices Australia

- > Airservices Australia manage the movements of over four million aircraft every year, and as an intern you'll be working on the algorithms to keep them in the sky.

### Australian Academy of Science

- > Put your scientific mind to the task of writing policy positions on anything from climate change to ethics as a Science Intern at the iconic 'Shine Dome' building.

### Environment Institute of Australia and New Zealand (EIANZ)

- > The Environment Institute is a professional association for environmental practitioners from across Australia and New Zealand.

### Government

- > The Australian National Internships Program (ANIP) can get your foot in the door of the offices of MPs and Senators, government departments, embassies and think-tanks for the complete national capital experience.

## Self-sourced internships

Students can undertake external internship opportunities if there is no existing formal agreement with the proposed host organisation. In self-sourced internships, students must meet the learning outcomes and other requirements to receive credit for their internship. Students must contact the internship course convener for further information before they undertake self-sourced internships.

E [science.internships@anu.edu.au](mailto:science.internships@anu.edu.au)

### Example of self-sourced internship

CSIRO

- > Our students often work with leading CSIRO scientists in their world-class facilities, leading to further research and employment opportunities.

**W [science.anu.edu.au/study/internships-careers](https://science.anu.edu.au/study/internships-careers)**



### Molly Folkard

#### Bachelor of Environment & Sustainability

As part of an internship through the Fenner School of Environment and Society, Molly has just written Australia's food waste strategy.

"There's one orange farm near Sydney that can't get the price that will make it worth picking the oranges off the tree. Ozharvest now goes and picks them and puts them in vending machines around Sydney that do fresh orange juice. It's a really cool way to make sure the food is getting used, but is also educating the community.

"I just thought this was going to be like another course at uni, but I didn't realise it would lead to an honours or a job."

## Applications for 2021 internships

### Semester 1:

Applications open early December 2020, close mid-January 2021.

### Semester 2:

Applications open early May 2021, close late May 2021.

# FIELDWORK

A number of our courses offer fieldwork activities, across a range of science fields, to help you get hands-on experience in the field and assist you in solidifying your theoretic knowledge. Here are some fieldwork highlights you can undertake during your studies.



## Coral Reef Field Studies

**EMSC3019, offered by the Research School of Earth Sciences**

Learn from ANU researchers on One Tree Island or Heron Island. Several days will be spent on location studying a modern reefal setting, fossil reef depositional environments and relevant biological processes.



## Fire in the Environment

**ENVS3008, offered by the Fenner School of Environment and Society**

Explore a range of important themes concerning bushfires in Australian and international environments. Gain insight into the ongoing research at the Fenner School, land management agencies and the Bushfire Research Facility at CSIRO.



## Field Studies in Functional Ecology

**BIOL2203, offered by the Biology Teaching and Learning Centre**

Understand field studies in plant and animal functional ecology. The course location varies each year but has previously been held in Singapore, Kosciuszko National Park and the Daintree Rainforest.



## Foundations of Astrophysics

**ASTR2013, offered by the Research School of Astronomy and Astrophysics.**

Learn about the key components of galaxies – dark matter, stars and gas, and how their masses and other properties are measured. Students will also gain practical experience with astronomical observations with a field trip to the Siding Spring Observatory.

W [science.anu.edu.au/study/field-trips](https://science.anu.edu.au/study/field-trips)

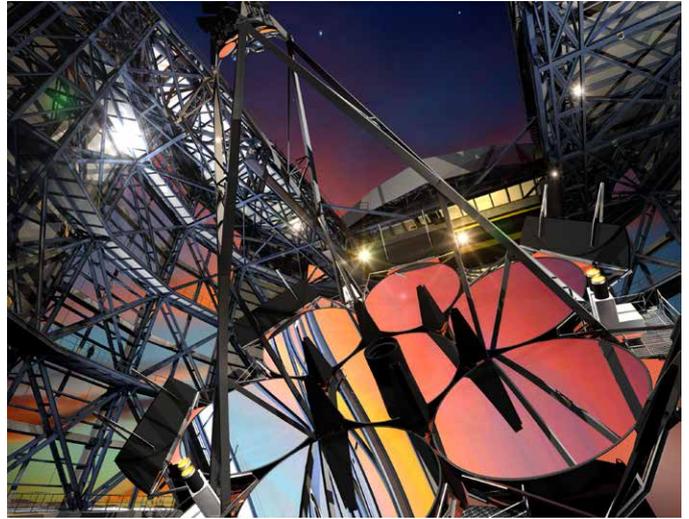
# WORLD-CLASS FACILITIES



▲ Our new \$240-million science precinct on the ANU campus has state-of-the-art biological and chemical research laboratories, as well as a teaching hub.



◀ In partnership with the ACT Government and CSIRO, we are working to improve biodiversity at the “outdoor laboratories” of Mulligans Flat and Goorooyarroo Nature Reserves in the Canberra Nature Park.



▲ ANU is part of an international partnership to design and build the world’s largest optical telescope: the Giant Magellan Telescope (GMT).



◀ Our Heavy Ion Accelerator Facility is the one of the largest in the world, supporting Australia’s only experimental nuclear physics program.



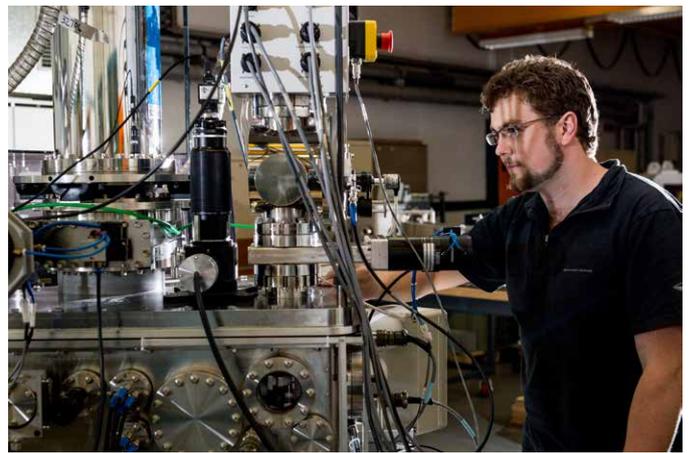
◀ ANU is home to the fastest super computer in the southern hemisphere at the \$50-million National Computational Infrastructure.

You can study ecological farming principles and holistic landscape management at our rural field station at Mulloon Creek. ▶





▲ The ANU Siding Spring Observatory in north-west New South Wales is Australia's premier optical and infrared observatory, housing the state-of-the-art SkyMapper telescope.



▲ The Sensitive High Resolution Ion Microprobe (SHRIMP) for analysing geological materials was designed and developed at ANU.

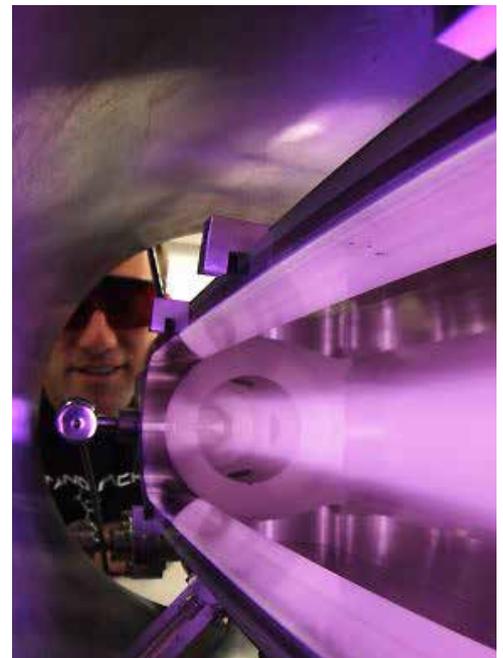


◀ The Australian Plant Phenomics Facility at ANU is the only place in the world that provides high-calibre public sector access to infrastructure and expertise on crop performance.

▶ The Kioloa Coastal Campus is one of the university's research facilities and field stations, providing a range of accommodations, teaching, research as well as meeting, conference, performance and workshop facilities.

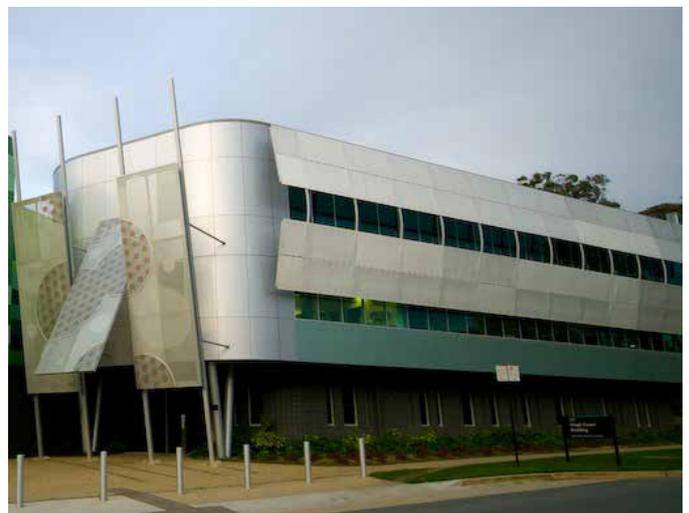


▶ The Australian Plasma Fusion Research Facility is a uniquely versatile resource for developing fusion energy.



▲ The \$30-million Advanced Instrumentation and Technology Centre at our Mount Stromlo Observatory is a world-class facility for developing space instruments.

▼ The Australian Phenomics Facility at ANU specialises in mouse models of human disease and is one of Australia's foremost genomics and bioinformatics capabilities.



W [science.anu.edu.au/research/facilities](http://science.anu.edu.au/research/facilities)

# CONTACT US

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**ANU College of Health & Medicine**  
**The Australian National University**

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