

Australian National University

# Undergraduate Student Guide

ANU College of Science and Medicine

#### Dietitian **Career possibilities** Pharmacist Environmental Consultant/ Physiotherapist Engineer/Chemist Genetic Counsellor Soil Scientist Health Policy Adviser Urban Planner Laboratory Technician **Conservation Officer** Health Administrator Waste and Water Resource Specialist Behaviour al Therapist Eco-tourism Planner Mental Health Counsellor International Development Consultant Psychologist/Psychiatrist School Counsellor Fire Consultant **Degree options** Forester Environmental Reporter Geologist Oceanographer Bachelor of Genetics Geophysicist Bachelor of Science Bachelor of Biotechnology Geobiologist/Chemist Bachelor of Medical Science Bachelor of Environment & Sustainability Marine Biologist Bachelor of Health Science Seismologist Bachelor of Health Science (Honours) Bachelor of Environment & Sustainability Advanced (Honours) Sustainability and Bachelor of Science (Psychology) Climate Consultant Areas of Bachelor of Science (Advanced) (Honours) Bachelor of Philosophy, Neuroscience Science Journalist/ and Psychology Communicator study that Bachelor of Science (Advanced) (Honours) Teacher Bachelor of Philosophy (Honours) I enjoy Bachelor of Philosophy (Honours) Environment, Bank Manager Health & Bachelor of Science Earth & Marine Psychology Budget Analyst 3 **Sciences** Computer/Software Bachelor of Science Programmer Bachelor of Science Bachelor of Genetics Database Developer Maths Epidemiologist Biology Bachelor of Biotechnology **Bachelor of Mathematical Sciences** Investment Banker Bachelor of Medical Sciences Logistics Specialist **Bachelor of Science** Bachelor of Health (Advanced) (Honours) Science Market Research Analyst **Physics** Chemistry Bachelor of Science Mathematician (Advanced) (Honours) Bachelor of Philosophy (Honours) Numerical Analyst Bachelor of Philosophy (Honours) Statistician Professor Researcher Bachelor of Science Bachelor of Science Bioinformaticist Bachelor of Science (Advanced) (Honours) Bachelor of Science (Advanced) (Honours) Economist Bachelor of Philosophy Bachelor of Philosophy Teacher (Honours) (Honours) Astronomer Biochemist Chemical Engineer Astrophysicist Pharmaceutical Chemist Biophysicist **Textile Chemist** Plasma Scientist Data Analyst Environmental/Optical/ Particle Physicist Radiochemist Teacher Pharmacologist Physicist Developmental Instrument Designer Researcher Chemist Meteorologist Robotics Technician Art Conservator Nanotechnologist Science Journalist/ Pharmacist Communicator Systems Analyst Nuclear Physicist Astrochemist Photon Scientist Pathologist Patent Agent Material Scientist Science Journalist/ Teacher **Chemical Physicist** Nanotechnologist

Communicator

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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

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

### OUR DEGREES

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Degree name	Duration (full time)	Semester intake	ATAR	IB	Prerequisites	UAC code	CRICOS code	Page
Bachelor of Biotechnology	3 years	1	80	30	Chemistry †	138503	036660M	3
Bachelor of Genetics	3 years	1	85	32	Chemistry <sup>†</sup>	138600	064778J	4
Bachelor of Health Science	3 years	1	90	35	Submission of a supplementary form Some subjects require prior knowledge	138302	094623B	5
Bachelor of Medical Science	3 years	1	85	32	Chemistry †	138403	036662J	7
Bachelor of Philosophy (Honours) (PhB)	4 years	1&2	99	43	Submission of a supplementary form Some subjects require prior knowledge	138000	043746B	8
Bachelor of Philosophy, Neuroscience and Psychology	3 years	1	97	41		138911	114958J	9
Bachelor of Science	3 years	1&2	80	30		138003	000335K	10
Bachelor of Science (Advanced) (Honours)	4 years	1&2	90	35		138004	065138M	11
Bachelor of Science (Psychology)	3 years	1&2	80	30		138123	047423M	12
<sup>+</sup> The chemistry bridging course is offered by the ANU Research School of Chemistry: <u>chemistry.anu.edu.au/study/bridging-course</u>								

Please note that this student guide is correct as at time of printing in January 2025 and should be used as a guide only. For the most up-to-date information please visit the ANU website

## CHEMISTRY BRIDGING COURSE

If the program you are interested in in studying requires knowledge of 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.

#### Chemistry:

This course specifically targets high school and college level students who wish to strengthen their chemistry knowledge with the aim of pursuing first-year chemistry. It aims to lay a good theoretical and practical foundation for first-year chemistry studies. Undergraduates or graduates who wish to improve their knowledge of chemistry may also enrol, and will benefit from the course structure and principles.

The course will focus on the fundamental principles of chemistry. The topics covered will include the study of atomic structure and periodicity, chemical bonding, nomenclature, the mole and stoichiometry, equation writing, and simple organic compounds. Students will also have the opportunity to develop some essential laboratory skills.

The course consists of eight lectures, tutorials, and laboratory sessions. It will be held in February in the Research School of Chemistry, The Australian National University, Canberra ACT. The course is not assessed by an examination, but successful completion of the course requires attendance at all lectures, tutorials, and laboratory sessions of the eight-day course.

The course consists of eight days of lectures, tutorials and laboratory sessions. It will be held from in late January and early February (excluding the weekend) in the Research School of Chemistry (Teaching Division), The Australian National University.

Indicative course cost: \$600

The chemistry bridging course is offered through the ANU Research School of Chemistry chemistry.anu.edu.au/study/bridging-course or by scanning the QR code above.

### GO ON A 360 DEGREE VIRTUAL TOUR

Ever wondered what the science buildings and facilities at the ANU look like from the inside? Take yourself on a 360 tour and find out.

Scan the QR code to see the available tours, or go to science.anu.edu.au/study/360-virtual-tours







## BACHELOR OF BIOTECHNOLOGY

#### Key facts

Minimum entry requirements: 80 ATAR, 29 IB

For further details on admission requirements please see pages 19-20.

Chemistry prerequisite. See page 2 for more information on the bridging course.

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 Vertical Double Degree pathway. See pages 15-16 for more information.

#### UAC code: 138503

#### CRICOS code: 036660M

#### **Program overview**

Biotechnology is a fast-moving field where scientists use living organisms, and their products, to solve real world problems facing modern society. This exciting field has broad applications in medicine, biology, agriculture, manufacturing, renewable energy and engineering.

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

#### **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.

#### **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	Bioethics and Society	3000 level BIOL/CHEM/ NEUR course	Elective
	2	3000 level BIOL course	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. For the most up-to-date information please visit the ANU website.



### Dr Kai Chan Bachelor of Biotechnology

After completing his Bachelor of Biotechnology and his PhD at ANU, Dr Chan was named ACT Scientist of the Year. He now leads the Plant Organelle and Cellular Signalling research group at the ANU Research School of Biology.

 #1 in Australia for Natural Sciences\* \*OS World University Rankings 2025

### BACHELOR OF GENETICS

#### Kev facts

#### Minimum entry requirements: 85 ATAR, 32 IB

For further details on admission requirements please see pages 19-20.

Chemistry prerequisite. See page 2 for more information on the bridging course.

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 Vertical Double Degree pathway. See pages 15-16 for more information.

#### 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	BIOL2001 or COMP1730	Elective
	2	Experimental Design and Analysis in Biology	Molecular Gene Technology	Elective	Elective
3	1	Genomics and its Applications	3000 level Genetics Elective	Genetics of Human Disease 1	Elective
	2	3000 level Genetics Elective	3000 level Genetics Elective	2000-3000 level BIOL, MEDN or NEUR course	Elective

\*Example study plan is a suggestion on how this program can be structured. For the most up-to-date information please visit the ANU website.





#### STUDENT PROFILE

#### Amber Condell **Bachelor of Genetics**

ANU is one of the only universities with a specific genetics undergraduate program, and Amber says that when she saw there was also the opportunity to do an internship in genetic counselling at Canberra Hospital, that sealed the deal.

"The internship was one of the greatest weeks of my life. It was an amazing experience. You've studied all this theory in class and gotten caught up in the technical lab work, and now it's time to go to meetings with patients and see that this is someone's real life. These are their real genes and emotions."

#1 in Australia for Natural Sciences\* \*QS World University Rankings 2025

## BACHELOR OF HEALTH SCIENCE



## PATHWAYS TO MEDICINE

#### Key facts

Duration: 3 years full-time

Semester intake: Semester 1 only

The Bachelor of Health Science can also be taken as part of a Vertical Double Degree pathway. See pages 15-16 for more information.

Minimum entry requirements: 90 ATAR, 35 IB

UAC Code: 138302

CRICOS code: 094623B

Pathway program to Doctor of Medicine and Surgery

#### Admission requirements:

Admission to the Bachelor of Health Science 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.

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.

#### **Program overview**

The ANU Bachelor of Health Science offers a variety of courses covering medical sciences (including biology, chemistry, physiology, pharmacology, human disease), public health, social science, as well as professional practice and research methods. The Bachelor of Health Science offers competitive pathways into the ANU Doctor of Medicine. This pathway will prepare you for a future career in medicine and you will have the option of applying for an honours year towards the end of your third year of study.

Throughout. the program, students have opportunities to choose courses of their interest, which include placements, or even oversees study experience.

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, cancer and immunology. The final year is a mix of compulsory courses and elective choices enabling students to pursue an area of academic interest, including commencing study the Master of Public Health within the vertical double degree pathway.

#### Career outcomes

Launch your career path in medicine, allied health, health organisations and the public service, including in Australian Public service, Non government organisations, Global Health organisations, Health promotion, Health education, Health services (e.g. Hospital administration), and Health research.

You will graduate with an impressive skillset that includes knowledge of the health, medicine, health systems, and 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.



#### science.anu.edu.au/study/bachelors/bachelor-health-science

#### Mackley Stalker Bachelor of Health Science

"I've really enjoyed my learning experience so far because I've had interesting courses and engaging lecturers. I think one of the biggest positive adjustments going from school to university for me is the greater control I have over what I study. I get to learn about areas that fascinate me, and I believe will have importance in both my career and the future. The lecturers also do their best to bring their passion and enthusiasm for their disciplines to the lecture theatre and tutorial rooms with engaging and occasionally amusing activities centred on real-world applications. I've also been fortunate in some courses to have guest lecturers that are world-class experts in their respective fields, which has been both humbling and inspiring to get access to such great minds as a first-year student." The Doctor of Medicine and Surgery program is a comprehensive and diverse program for graduate students looking to enter the rewarding field of medicine. It aims to produce graduates who are committed to compassionate, ethical health care and the expansion of medical knowledge.

Students in the program study medical sciences, clinical skills, population health, research, professionalism and leadership. They also explore the social foundations of medicine, develop an understanding of Indigenous health in Australia, and gain insights and experience in health care in rural or remote areas of Australia.

#### Pathways to the Doctor of Medicine and Surgery

The ANU provides three pathway opportunities for students who are interested in studying medicine after their undergraduate degree. Through these pathways, students are not required to sit the GAMSAT or MCAT.

#### **Bachelor of Health Science**

This pathway is not a formalised double degree, but a pathway between two separate degrees. The pathway is open to both domestic and international students with designated places for each.

Up to 20 non rural and 10 rural domestic students from the Bachelor of Health Science will receive an offer to the medical program each year. Aboriginal and/or Torres Strait Islander students will be considered in addition to the above domestic places and will be considered within the school's Indigenous Pathway.

These offers are awarded based upon a student's academic performance, an interview process and their responses to the selection criteria.

Students interested in this pathway must meet the eligibility requirements and submit an online application before 30 July each year.

Students who are found to have not behaved within the ANU student code of conduct will not be considered.



Learn more about the program: science.anu.edu.au/study/bachelors/bachelor-health-science

#### Tuckwell Scholarship

This pathway is limited to students who have been successful in receiving an ANU Tuckwell Scholarship. Students are required to have declared upfront an interest in studying medicine in all 3 stages of the Tuckwell application and interview process. Each year a few Tuckwell Scholars will receive a Tuckwell-Medicine pathway offer notifying them that upon successful completion of their undergraduate degree at the ANU they will receive an offer to the medical program. Only domestic students are considered through this pathway.

Learn more about the Tuckwell Scholarship: <u>tuckwell.anu.edu.au</u>

Students who are not successful in receiving an offer through these pathways will still be eligible to apply to the program through the standard admissions process, however they must meet the minimum eligibility requirements as outlined at <u>science.anu.edu.au/study/masters/doctor-medicine-surgery-</u><u>mchd</u>

#### What is the GAMSAT?

The GAMSAT (Graduate Australian Medical School Admissions Test) is an exam designed to assess the capacity to undertake high-level studies in medical and health professional programs. The GAMSAT evaluates skills and abilities gained during undergraduate study. Specifically, mastery of basic science concepts, problem solving, critical thinking and writing.

#### What is the MCAT?

The MCAT (Medical College Admission Test) is a standardised, computer-based examination used to assess readiness for medical studies. It covers areas such as biological sciences, physical sciences, social sciences, and critical reasoning.

At ANU, the MCAT is accepted only from international applicants applying for the Doctor of Medicine and Surgery.

#### **Further information**

- T +61 2 6125 5605 or +61 2 6125 1304
- E admissions.smp@anu.edu.au
- W medicine-psychology.anu.edu.au

## BACHELOR OF MEDICAL SCIENCE

#### **Key facts**

Minimum entry requirements: 85 ATAR, 32 IB

For further details on admission requirements please see pages 19-20.

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 or Vertical Double Degree pathway. See pages 15-16 for more information.

Chemistry prerequisite. See page 2 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**



#### **GRADUATE PROFILE**

Alex Keen **Bachelor of Medical Science** 

Alex studied a Bachelor of Medical Science focussing on human-based biology and physiology.

"I've always liked medicine and find it really interesting, understanding how the human body works and therefore being able to assist someone who needs help."

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	Quantitative Research Skills Course
	2	General Microbiology	2000 level Medical Science elective	2000 level Medical Science elective	Elective
3	1	3000 level Medical Science elective	3000 level Medical Science elective	Elective	Elective
	2	Medical Science in the Workplace	3000 level Medical Science elective	3000 level Medical Science elective	Elective

\*Example study plan is a suggestion on how this program can be structured. For the most up-to-date information please visit the ANU website

#### science.anu.edu.au/study/bachelors/bachelor-medical-science

### BACHELOR OF PHILOSOPHY (HONOURS) (PHB)

#### Key facts

#### Minimum entry requirements: 99 ATAR, 43 IB

For further details on admission requirements please see pages 19-20.

#### Duration: 4 years full-time

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

75% minimum average required in science courses throughout degree. 70% minimum average required in 36 units of courses in disciplines cognate to the honours specialisation excluding 1000-level courses. 80% minimum final Honours mark in order to graduate with the Bachelor of Philosophy (Honours).

Honours (one year of research and a thesis)

Some subjects have assumed knowledge, particularly in chemistry, mathematics and physics. See page 2 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.

#### Degree structure

Year	Semester	Course 1	Course 2	Course 3	Course 4			
1	1	Science 1000 level course	Science 1000 level course	Science 1000 level course	Elective			
	2	Science 1000 level course	Science 1000 level course	Advanced Studies Extension	Elective			
2	1	Science 2000 level course	Science 2000 level course	Advanced Studies Course	Elective			
	2	Science 2000 level course	Advanced Studies Extension	Advanced Studies Extension	Elective			
3	1	Science 3000 level course	Science 3000 level course	Advanced Studies Course	Elective			
	2	Science 3000 level course	Science 3000 level course	Advanced Studies Course	Elective			
4	1	Honours						
	2	Honours						

\*Example study plan is a suggestion on how this program can be structured. For the most up-to-date information please visit the ANU website.

science.anu.edu.au/study/bachelors/bachelor-philosophy-honours





#### STUDENT PROFILE

### Zelda Smith

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

"Studying science is a fantastic way to have a broad university experience, explore a range of topics, and interests, and have the opportunity for field trips, research, and high-level coursework. And at ANU, studying science is an incredibly unique experience due to the university's focus on research! My science degree has given me a strong scientific framework as well as the flexibility to explore topics including science communication, parasitology, and genetics through the undergraduate research experience. This degree is incredible!"

## BACHELOR OF PHILOSOPHY, NEUROSCIENCE AND PSYCHOLOGY

#### Key facts

Duration: 3 years full-time Semester intake: Semester 1 only Minimum entry requirements: 97 ATAR, 41 IB UAC Code: 138911 CRICOS code: 114958J

#### Admission requirements:

Entry to the Bachelor of Philosophy, Neuroscience, and Psychology is based on meeting the minimum selection rank requirement and involves an assessment of suitability based on the questions included in the Bachelor or of Philosophy, Neuroscience, and Psychology Supplementary Form. Submission of this form is compulsory for all applicants.

There are approximately 50 places available in each intake of the Bachelor of Philosophy, Neuroscience, and Psychology.

#### **Program overview**

The Bachelor of Philosophy, Neuroscience, and Psychology (BPNP) program draws upon The Australian National University's world-leading strengths in philosophy (top 10 in the world), neuroscience and psychology to take you on a pioneering and interdisciplinary academic journey. The program creates a unique environment where innovation, collaboration, and cutting-edge research converge to challenge traditional boundaries of thought.

You will explore philosophical questions related to the mindbrain connection, delving into the conceptual foundations that underpin our understanding of the brain and mind. You will gain in-depth knowledge of the intricate relationship between the brain and cognitive processes, with access to world-class facilities, resources, and some of the country's leading scientists at the John Curtin School of Medical Research, Australia's national medical research institute.

#### Degree structure

Course 1 Course 2 Course 3 Course 4 Year Psychology 1: Understanding Course from Indigenous 1 ANU Elective Human Biology 1 Mind. Brain and Behaviour Perspectives list Introduction to Philosophy, Logic and 2 **ANU Elective** ANU Elective Critical Thinking Neuroscience, and Psychology Philosophy of Science (Sem 1) 2 Medical Physiology **Ouantitative Methods** or Sex and Death: the ANU Elective and Pharmacology in Psychology Philosophy of Biology (Sem 2) **Biological Basis** Topics in Philosophy, 2 ANU Elective Philosophy of Mind Neuroscience, and Psychology of Behaviour Neuropsychology and 3000 level form PHIL 3 Cellular Neuroscience ANU Elective **Cognitive Neuroscience** course list Research Project in Philosophy, 2 **ANU Elective** ANU Elective Systems Neuroscience Neuroscience, and Psychology

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

science.anu.edu.au/study/bachelors/bachelor-philosophy-neuroscience-and-psychology

Studying psychology will uncover the human mind and behaviour, and the mysteries of consciousness, perception, and cognition.

The BPNP will challenge you to think differently, explore the uncharted territories of the mind-brain relationship, and contribute to ground-breaking research in this dynamic field. Join us on this transformative academic journey where innovation knows no bounds.

#### **Career outcomes**

The BPNP program cultivate a holistic understanding of the mind-brain connection. The program provides experience that will benefit graduates who intend to apply for further study in the fields of philosophy, neuroscience, and psychology. The BPNP is an excellent launch pad for a career in research, consulting, behavioural analysis, policy development, userexperience research, education, politics, medicine, and working in the public and private sectors.

## 

### BACHELOR OF SCIENCE

#### Key facts

#### Minimum entry requirements: 80 ATAR, 29 IB

For further details on admission requirements please see pages 19-20.

#### 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 or Vertical Double Degree pathway. See pages 15-16 for more information.

Some subjects have assumed knowledge, particularly in chemistry, mathematics and physics. See page 2 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 criticalthinking and problem-solving skills needed for the workforce.

#### **Career outcomes**

- > Policy advisor
- > Consultant
- > Science journalist > Science teacher

> Environmental scientist

scientific organisation (CSIRO)

> Research officer at

> Liaison officer at pharmaceutical company

#### **Degree structure**

Year		Course 1	Course 2	Course 3	Course 4
1	1	1000 level BSC course	1000 level BSC or ANU elective	1000 level BSC or ANU elective	1000 level BSC or ANU elective
	2	1000 level BSC course	1000 level BSC or ANU elective	1000 level BSC or ANU elective	1000 level BSC or ANU elective
2	1	2000 level course BSC Major	2000 level course BSC Major	BSC elective	BSC or ANU elective
	2	2000 level course BSC Major	2000 level course BSC Major	BSC elective	BSC or ANU elective
3	1	3000 level course BSC Major	3000 level course BSC Major	BSC elective	BSC or ANU elective
	2	3000 level course BSC Major	3000 level course BSC Major	3000 level BSC elective	BSC or ANU elective

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

For the most up-to-date information and to see how to structure this degree please visit the ANU website.

science.anu.edu.au/study/bachelors/bachelor-science





#### STUDENT PROFILE

#### Terence Johnson **Bachelor of Science**

"I have always found studying science fascinating and I also feel strongly about the need for change in our interactions with the environment. That's why I chose the ANU Bachelor of Science program: because there is plenty of opportunity to pursue environmental or sustainability studies."

#1 in Australia for Natural Sciences\* \*QS World University Rankings 2025

### BACHELOR OF SCIENCE (ADVANCED) (HONOURS)



#### Key facts

Minimum entry requirements: 90 ATAR, 35 IB

For further details on admission requirements please see pages 19-20.

Duration: 4 years full-time

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

70% minimum average required in science courses throughout degree

UAC code: 138004

CRICOS code: 065138M

#### **Program overview**

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

#### **Honours Year**

**Degree structure** 

- > A fourth year of study that is a continuation of an undergraduate degree focused on a research project
- > Identify a supervisor and an area of research
- > Full-time for two consecutive semesters and includes research training
- Honours extends the knowledge and skills developed during the Bachelor degree and provides a solid foundation in the practice of research suitable for entry to a broad range of careers or to a PhD.



#### STUDENT PROFILE

### Tanya Javaid Bachelor of Science (Advanced) (Honours)

Tanya Javaid is an international student studying a Bachelor of Science (Advanced) (Honours) at ANU and completed an internship at CSIRO as part of her degree.

"Getting caught up in the stress of grades and deadlines, you often forget to enjoy what you're learning, and fail to see that information is used beyond the classroom. An internship is a great way to study what you love in a hands-on way, without obsessing over your grade at the end of it!"

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Year		Course 1	Course 2	Course 3	Course 4		
1	1	1000 level ASCAD course	1000 level ASCAD or ANU elective	1000 level ASCAD or ANU elective	1000 level ASCAD or ANU elective		
	2	1000 level ASCAD course	1000 level ASCAD or ANU elective	1000 level ASCAD or ANU elective	1000 level ASCAD or ANU elective		
2	1	2000 level course ASCAD Major	2000 level course ASCAD Major	ASCAD elective	1000 level ASCAD or ANU elective		
	2	2000 level course ASCAD Major	2000 level course ASCAD Major	ASCAD elective	1000 level ASCAD or ANU elective		
3	13000 level course ASCAD Major3000 level course ASCAD Major		3000 level course ASCAD Major	ASCAD elective	1000 level ASCAD or ANU elective		
	2	3000 level course ASCAD Major	3000 level course ASCAD Major	3000 level ASCAD elective	1000 level ASCAD or ANU elective		
4	1	Honours					
	2	Honours					

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

For the most up-to-date information and to see how to structure this degree please visit the ANU website.

science.anu.edu.au/study/bachelors/bachelor-science-advanced

#### ANU College of Science and Medicine

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

science.anu.edu.au/study/bachelors/bachelor-science-psychology

### BACHELOR OF SCIENCE (PSYCHOLOGY)

#### Key facts

Duration: 3 years full-time

Semester 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 15-16 for more information.

Minimum entry requirements: 80 ATAR, 30 IB

UAC Code: 138123

CRICOS code: 047423M

#### **Program overview**

The Bachelor of Science (Psychology) is a three-year degree that provides you with a great base across several key areas in psychology including developmental, social, personality, health and mental health, research methods, cognition and the biological bases of behaviour.

In your later year courses, you'll apply this knowledge and your skills in more specialised areas such as neuroscience, counselling, health, mental health and organisational (business) psychology.

Once you've completed your third year, you can apply to undertake an Honours year and pursue further postgraduate study. This will allow you to practice as a psychologist or clinical psychologist.



The Bachelor of Science (Psychology) is accredited by the Australian Psychology Accreditation Council (APAC)

#### **Degree structure**

Year		Course 1	Course 2	Course 3	Course 4
1	1	Psychology 1: Understanding Mind, Brain and Behaviour	1000 level Science elective	Elective	Elective
	2	Psychology 2: Understanding People in Context	1000 level Science elective	Elective	Elective
2	1	Culture and Psychology	Quantitative Methods in Psychology	Elective	Elective
	2	Social Psychology	Cognition	Biological Basis of Behaviour	Elective
3	1	Psychopathology Across the Lifespan	Advanced Research Methods	Developmental Psychology	3000 level PSYC course
	2	Personality Psychology	Health Psychology	3000 level PSYC course	Elective



#### **Career outcomes**

Psychology graduates have skills that are 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 in research, management consulting, human resources, public policy, child development and welfare, marketing, counselling, health and human services, education, and clinical practice.

#### Additional information:

- > Bachelor of Science (Psychology) graduates who wish to practice as psychologists or clinical psychologists can apply to undertake the following programs:
  - 1. Master of Professional Psychology: this pathway enables graduates to eventually become registered psychologists by the Psychology Board of Australia; or
  - 2. Psychology Honours followed by either the Master of Clinical Psychology or the PhD (Clinical Psychology): this pathway enables graduates to eventually become registered psychologists with specialist endorsement in clinical psychology by the Psychology Board of Australia.

## PATHWAYS TO BECOME A PSYCHOLOGIST

In Australia, to register as a psychologist, you are required to complete approved university training and supervised practice.

At ANU, we offer three degree pathways accredited by the Australian Psychology Accreditation Council (APAC) that enable you to pursue a career as a registered psychologist in Australia.

The pathways are open to domestic and international students, who can apply to enter each phase of our pathways, such as Bachelors and Honours degree, or Masters level. Interested students are required to follow the admissions process and apply for each phase of the degree that they want to start their pathway from. More information about the pathways are available below.

#### Master of Professional Psychology Pathway

Duration: 6 years full time



### STEP 1

#### ANU bachelor degree majoring in Psychology

There are three APAC accredited bachelor programs at ANU that allow you to complete psychology courses that are required for admission into the Master of Professional Psychology: <u>Bachelor of Science (Psychology)</u>, <u>Bachelor of Science</u> and <u>Bachelor of Arts</u>.

#### STEP 2

#### Master of Professional Psychology

This program is accredited by APAC and is the first in Australia to provide both the fourth and fifth years of university study in the 5+1 pathway to registering as a psychologist. You will complete coursework on psychological assessment, interventions, and professional skills in both years as well as a group research project in the first year, and practical placement experience in the second year.

Upon successful completion of the first year (48 units) of the Master of Professional Psychology, you will need to obtain Provisional Registration with the Psychology Board of Australia (PsyBA) and satisfy other requirements to enrol into the second year of the program. You will need to maintain Provisional Registration for the duration of the program.

#### STEP 3

#### Internship and National Psychology Exam

You must undertake 1,500 hours of internship training in the field under the auspices of the Psychology Board of Australia (PsyBA). This can be completed in a full-time or equivalent part-time arrangement.

During the internship, you will complete the National Psychology Exam. On successful completion, trainees will be eligible to apply for General Registration as a Psychologist. Note: The internship is organised by students. More information can be found on the PsyBA website.

#### STEP 4 Apply for General Registration

 Further information

 W:
 medicine-psychology.anu.edu.au

 E:
 science@anu.edu.au



For registration pathways W: Psychologyboard.gov.au/Registration

### Duration: 6 years full time

Master of Clinical Psychology Pathway



#### STEP 1 ANU Psychology Honours

At ANU there are four APAC accredited Honours programs that you can choose from: Bachelor of Arts (Honours), Bachelor of Philosophy (Honours), Bachelor of Science (Honours) and Bachelor of Science (Psychology) (Honours). Note: some of these programs can be completed as three-year bachelor degrees with an additional fourth honours year.

#### STEP 2

#### Master of Clinical Psychology

In this program you will study clinical coursework, undertake clinical field placement and conduct clinical research. You will complete clinically relevant coursework over the two years of the Masters. In the first year you will undertake supervised clinical practice in the ANU Psychology Clinic, and in the second year complete two supervised clinical placements outside ANU. In addition to 1,000 hours of clinical coursework, you will also conduct an approved empirical research project.

Students are required to apply for provisional registration at the commencement of the Masters course and remain provisionally registered over the duration of the course.

#### STEP 3

#### Apply for General Registration

Do not need to complete the national psychology exam.

#### STEP 4

#### **Obtain Clinical Psychology Endorsement**

Graduates from this pathway can apply for general registration with the Psychology Board of Australia (PsyBA), however in order to obtain clinical endorsement, you are required to complete a 3,000-hour registrar program.

#### Doctor of Philosophy (Clinical Psychology) Pathway

Duration: 4 years full-time to complete the doctoral program; 8 years including undergraduate degree. Program: <u>Doctor of Philosophy (Clinical Psychology)</u>

This APAC accredited doctorate degree consists of coursework, 1,000 hours of clinical placements and a research thesis (equivalent to a PhD research thesis in size and scope). It is designed for those who have a particular interest in the academic and research aspects of clinical psychology.

You can apply for general registration upon successful completion of the Doctor of Philosophy (Clinical Psychology) without taking the national psychology exam, however in order to obtain clinical endorsement, you are required to complete a 2,250 hour registrar program.

#### FAQ

#### How to apply for the Honours year in psychology at ANU if I complete my bachelor at another Australian University?

External applications are welcome. If your undergraduate Psychology degree was earned from an <u>APAC accredited program</u> and fulfills all of the ANU course requirements needed for Honours entry, then you will be eligible to apply for Psychology Honours at ANU. Note: the ANU grading criteria will be applied (e.g. if ANU has a higher cut-off than your institution, we will apply the ANU cut-off).

#### How to apply for a Psychology Masters at ANU if I completed my degrees elsewhere?

Australian Psychological Society Assessment is required if you studied outside of Australia, APAC Accredited sequence of study is required if you studied in Australia.

\* The bachelor's must be an APAC accredited three-year sequence. \*\*Definition of terms such as major and honours at ANU can be found at policies.anu.edu.au/ppl/document/ANUP\_002601



## DEGREE PROGRAMS

#### **Flexible Double Degrees**

W study.anu.edu.au/study-options/flexible-degreeoptions-anu



#### Vertical Double Degree pathways

W science.anu.edu.au/study/double-degrees/ vertical-double-degree-pathways



#### 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

#### Bachelor degree + Master degree

Expand your career options with two qualifications.

- > In a Vertical Double Degree (VDD) pathway 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.
- > All Master of Science plans can be taken in the VDD pathway

>

>

Master options > Environment

Science

> Public Health

Science Communication

#### Bachelor options

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

>

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

#### How to structure your degree

We can walk you through the structure of your undergraduate degree and helping you check whether you have made the right course choices. We also provide study plan templates to help you choose courses.

Study plan examples and templates are available by scanning the QR code. If you have any questions after filling out a study plan or would just like us to check it over for your own piece of mind, please email it to students.cos@anu.edu.au including your name and student number and - we will get back to you as soon as we can.



### 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.

### Flexible Double Degree\*

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

Year	Semester	Courses			
1	1	Biology 1: Evolution, Ecology and Genetics	Chemistry 1	Arts Major	Arts Minor
	2	Biology 2: Molecular and Cell Biology	Chemistry 2	Arts Major	Arts Minor
2	1	Genes: Replication and Expression	Chemical Biology 1	Arts Major	Arts Minor
	2	Molecular Gene Technology	Biotechnology Elective	Arts Major	Arts Minor
3	1	Genomics and its Applications	Biotechnology Elective	Arts Major	Arts Elective
	2	<b>Bioethics and Society</b>	Biotechnology Elective	Arts Major	Arts Elective
4	1	3000 level BIOL course	3000 level BIOL/CHEM/ NEUR course	Arts Major	Arts Elective
	2	3000 level BIOL/CHEM/ NEUR course	3000 level BIOL/CHEM/ NEUR course	Arts Major	Arts Elective

### Vertical Double Degree pathway\*

Four year vertical double degree pathway e.g. Bachelor of Biotechology & Master of Science-generic study plan based on a non specified Master degree

Year	Semester	Courses			
1	1	Bachelor BIOL1003	Bachelor CHEM1101	Bachelor ANU Elective	Bachelor ANU Elective
	2	Bachelor BIOL1004	Bachelor CHEM1201	Bachelor ANU Elective	Bachelor ANU Elective
2 2 2	1	Bachelor BIOL2161	Bachelor CHEM2211	Bachelor 2000-level BBIOT Elective	Bachelor BBIOT Quantitative Skills Course
	2	Bachelor BIOL2162	Bachelor 3000-level BIOL/CHEM/MEDN/ NEUR Course	Bachelor 2000-level BBIOT Elective	Bachelor 2000-level BIOL/CHEM/MEDN/ NEUR Course
	1	Bachelor BIOL3161	Bachelor BIOL3191	Master	Master
3	2	Bachelor 3000-level BIOL/CHEM/MEDN/ NEUR Course	Bachelor 3000-level BIOL/CHEM/MEDN/ NEUR Course	Master	Master
4	1	Master	Master	Master	Master
	2	Master	Master	Master	Master

\*For the most up-to-date information and to see how to structure these degrees please visit the ANU website

## FLEXIBLE DOUBLE DEGREE COMBINATIONS

Looking for a degree with your name on it? Design your own flexible double degree. ANU offers more than 500 possible combinations.

### Arts. Social Sciences. **Business or Science**

#### Four years full-time Combine any two of the following degrees.

Bachelor of	2024 Selection Rank
Accounting <sup>2</sup>	80
Actuarial Studies <sup>4</sup>	92
Applied Data Analytics	90
Arts	80
Asian Studies	80
Biotechnology <sup>4,5</sup>	80
Business Administration	80
Commerce <sup>2,3</sup>	80
Criminology	80
Design	A+C
Economics	80
Environment and Sustainal	bility 80
Finance <sup>3</sup>	80
Genetics <sup>4,5</sup>	85
International Relations	85
International Security Stud	lies 85
Languages	80
Mathematical Sciences <sup>4</sup>	95
Medical Science <sup>4,5</sup>	85
Music <sup>1</sup>	80
Pacific Studies	80
Political Science	85
Politics, Philosophy and Ec	onomics 94
Science	80
Science (Psychology)	80
Statistics <sup>4</sup>	80
Visual Arts	A+C

### Law or Philosophy

#### Five years full-time

Choose to study the Bachelor of Laws (Hons) or Bachelor of Philosophy (Hons) and combine it with a degree in another field.

Bachelor of	2024 Selection Rank
Laws (Hons)	97
Philosophy (Hons)	99

### with one of the following degrees

Actuarial Studies <sup>4</sup>	92
Applied Data Analytics	90
Arts	80
Asian Studies	80
Biotechnology <sup>4</sup>	80
Business Administration	80
Commerce	80
Criminology	80
Design	A+C
Economics	80
Environment and Sustainability	80
Finance	80
Genetics <sup>4</sup>	85
International Security Studies	85
Languages	80
Mathematical Sciences <sup>4</sup>	95
Medical Science <sup>4</sup>	85
Pacific Studies	80
Political Science	85
Politics, Philosophy and Economic	cs 94
Science	80
Science (Psychology)	80
Statistics <sup>4</sup>	80
Visual Arts	A+C

### Engineering or Advanced Computing

#### Five years full-time

Choose to combine Engineering or Advanced Computing with a degree in another field.

Bachelor of	2024 Selection Rank
Advanced Computing (Hon	s) <sup>4</sup> 85
Advanced Computing (R&D	) (Hons)498
Engineering (Hons) <sup>4</sup>	85
Engineering (R&D) (Hons)4.6	<sup>6</sup> 98

#### with one of the following degrees

0.0	
Actuarial Studies⁴	92
Applied Data Analytics	90
Arts	80
Asian Studies	80
Biotechnology <sup>4</sup>	80
Business Administration	80
Commerce	80
Criminology	80
Design	A+C
Economics	80
Environment and Sustainability	80
Finance <sup>3</sup>	80
Genetics <sup>4</sup>	85
International Security Studies	85
Languages	80
Mathematical Sciences <sup>4</sup>	90
Medical Science <sup>4,</sup>	85
Pacific Studies	80
Political Science	85
Politics, Philosophy and Economics	s 94
Science	80
Science (Psychology)	80
Statistics <sup>4</sup>	80
Visual Arts	A+C

## 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 number of available projects from host organisations.

#### **Current internship hosts**

- > ACT Health
- > Australian Academy of Science
- Australian Institute of Health & Welfare >
- Australian Science Innovations
- Endangered Heritage >
- > Esri Australia
- > Fight Food Waste Ltd
- Food2Soil >
- > NSW Biodiversity Conservation Trust
- Relationships Australia >
- Safe Work Australia >
- > Women's Mentoring Foundation

#### 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

#### 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.

#### Applications for internships

#### Semester 1:

Applications open early December, close mid-January.

#### Winter Semester/Semester 2:

Applications open in March, close in early to mid April.

A+C: completion of Year 12 certificate + conditions apply including interview/portfolio. See soa.anu.edu.au/apply for more information.

- Entrance to performance courses are by audition. E 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.

- 5 The degrees of Biotechnology, Genetics and Medical Sciences cannot be combined with one another
- 6 The degree of Advanced Computing cannot be combined with The Bachelor of Engineering (R&D) (Hons).





#### Isaac Kozlovskis Bachelor of Arts / Bachelor of Science

Isaac completed an internship at the Australian Academy of Science as part of his double-degree.

"Halfway through my placement I was offered part-time work at the Academy. I then completed both my role as an employee and my work as an intern simultaneously.

I also think the relationships I developed with my colleagues are so invaluable. Not only have I learnt so much and advanced my professional network, I also made some fantastic friends."

### Eligibility

- > Domestic and international students may apply.
- > You must have completed a minimum of 48 units, have a minimum Grade Point Average of 5.5, and and have space in vour degree.
- > Postgraduate students require approval from their Postgraduate Program Convener.
- > Selection may include an interview.
- > Additional selection criteria may be set by the host organisation.

### HOW TO APPLY



### FEES & PATHWAYS

### **Domestic Undergraduate**

You are a domestic applicant if you:

- are an Australian or New Zealand citizen
- hold an Australian Permanent Residency Visa
- hold an Australian Humanitarian Visa.

#### **ANU Direct application:**

You can apply directly to the university if you:

- have completed Australian Year 11 studies or the International Baccalaureate program for Year 11
- will complete Australian Year 12 studies with an ATAR or an International Baccalaureate Diploma.

Direct applications are open March to May, to begin studies in February the following year. Your direct application will cover admissions, scholarships and campus accommodation.

If your Year 11 results don't meet entry requirements, we will put you on our waiting list and automatically consider your application again based on your Year 12 results in the December/ January offer round.

See study.anu.edu.au/apply for further information.

#### Applying through UAC:

You can apply to study at The Australian National University through the Universities Admissions Centre (UAC). Through UAC you can submit your preferences and provide any required documents to support your applications.

Visit the UAC website for further information uac.edu.au.

### International Undergraduate

You can apply direct to ANU through the online application portal.

To be considered for an offer, you must meet the prerequisite and cognate requirements for your preferred program, as well as the English language requirements.

For the most up-to-date information about English language requirments, go to study.anu.edu.au/apply/english-languagerequirements.

Your application will be ranked against other candidates applying for the same program.

You can apply at any time throughout the year. Most applications submitted before the 15th day of each month will be considered for an offer on the 1st day of the following month.

You can change your degree preference between the 9th and 15th day of each month.

You will have two months to accept your offer from ANU.

You can also consider seeking support from one of our educational agents. To find an education agent, go to study.anu.edu.au/apply/international-applications/findeducation-agent.

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 programs and courses. anu.edu.au

For the most up-to-date information about university tuition fees in Australia for domestic students, go to 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

Youth Allowance is financial help available to eligible fulltime students aged between 16 and 24 years of age. For details go to humanservices.gov.au/individuals/services/ centrelink/youth-allowance-students-and-australianapprentices

ABSTUDY is available to eligible Aboriginal and Torres Strait Islander students. For details go to 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

For up-to-date information about the Student Services and Amenities Fee go to anu.edu.au/students/programadministration/costs-fees/services-amenities-fee

#### 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

The mathematics bridging course is offered through the ANU Mathematical Sciences Institute maths.anu.edu.au/study/bridging-course

### ONLINE DROP IN SESSIONS

Do you have questions about studying science, application process, scholarships, internships and student experiences and others?

The drop-in sessions are designed to provide you with an opportunity to meet and talk to our senior student ambassador and course adviser and have your questions answered live.

Scan the QR code to see the dates and register.





### 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.

More information about the various mature age entry options can be found at students.anu.edu.au/applications/mature

#### Honours pathway

You may undertake Honours if you are currently studying in a science program at ANU (in which Honours is not compulsory), or are completing your undergraduate degree in a science discipline at another university.

Students must meet the requirements for the first three years of their program and achieve a minimum 70% weighted average mark (WAM). This WAM is calculated from 36 units of courses in disciplines cognate to the Honours specialisation (excluding 1000-level courses) with the highest marks. You must also satisfy any requirements specified in the relevant Honours specialisation (see table below to link to Programs and Courses).

An Honours year is typically a fourth year of study that is a continuation of an undergraduate degree. The Science Honours specialisation is intended for students who have a broad and interdisciplinary training in science and are interested in undertaking an independent research project that crosses standard disciplinary boundaries. The honours specialisation is usually taken full time for two consecutive semesters and includes research training, in-depth analysis of current concepts in the fields as well as a substantial research project culminating in the production of a thesis. Honours is a solid foundation in the basics of research and can be an entry into many careers both within and outside of science.

More information about honours can be found at students.science.anu.edu.au/program-admin/pathwayshonours

### Scholarships

Go to study.anu.edu.au/scholarships for our full range of scholarship and eligibility requirements, or scan the QR code below.



### FIELDWORK



Many 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. Please note: some field trip course are capped due to capacity restrictions and are subject to travel restrictions.





#### 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.



#### **Appreciating Parasites: From Molecules to** Ecosystems

#### BIOL3210 offered by the Biology Teaching and Learning Centre

During the course we will look into the role, history, lifestyle, evolution, ecology and diversity of parasites in the biosphere.



#### **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.

### MEET OUR GRADUATES



#### Marika Niihori PhD candidate at Cambridge University Bachelor of Philosophy (Honours)

Marika's research into nanoscale technology has earned her a Gates Cambridge Scholarships, one of the most prestigious scholarships in the world.

The scholarship allowed Marika to continue her research as a Physics PhD student at the University of Cambridge and join a network of global scholars, where she hopes to build new, nanoscale molecule detectors called 'biosensors'.



#### **Atul Sharma** Medical Officer, NSW Health Bachelor of Philosophy (Honours)

Atul went on to the Doctor of Medicine and Surgery after completing a Bachelor of Psychology (Honours), and now works as a Doctor for NSW Health.

"I had a unique experience during my Bachelor of Philosophy (Honours). The ability to slip into research projects was the key highlight. Research is the bedrock skill in many academic prospects, and a valuable experience when you reach the (daunting) job application seasons."

science.anu.edu.au/study/field-trips



#### Dr Vanessa Pirotta Chief Scientist at Wild Sydney Harbour **Bachelor of Science**

"My time at ANU definitely helped shape my career path. My undergraduate degree provided me with the starting tools for my academic career. I was able to take classes in real laboratories and was taught by quirky lecturers who made science fun. The benefits of my time at ANU continue through today."



#### Matthew Teh Assistant Director, Critical Minerals Office, **Department of Industry Bachelor of Science (Honours)**

In the summer between finishing my Bachelor of Science (Honours) and starting a job with Geoscience Australia, Matthew was fortunate enough to be a Research Intern at the Atmosphere and Ocean Research Institute (AORI) with the University of Tokyo.

"I worked on radiocarbon dating in the lab group led by Professor Yusuke Yokoyama. Radiocarbon dating is used to develop insights into paleoclimatology (the study of ancient climates), which can be used to model and develop strategies for climate change."

### WORLD-CLASS FACILITIES



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





The Biomolecular Resource Facility (BRF) is a core genomics facility specialising in sequencing, as well as genotyping and bioinformatics.

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





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

The Centre for Advanced Microscopy (CAM) provides state-of-the art microscopy and microanalysis equipment to researchers, students and industry partners.

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





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

science.anu.edu.au/research/facilities

23 ANU College of Science and Medicine



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

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



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



The CHASM Facility offers High dimensional flow cytometry cell analysis, cell sorting, Histology, Automated Immunochemistry, in vivo optical imaging, low dose micro CT and Spatial Multiomics services.





### Australian National University

## Contact us

### ANU College of Science and Medicine The Australian National University

- W science.anu.edu.au
- E science@anu.edu.au

#### **Student enquiries**

- T 1800 620 032
- E future.student@anu.edu.au

### Connect with us

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- y twitter.com/ScienceANU
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- in linkedIn.com/showcase/anu-colleges-of-science
  - tiktok.com/@scienceanu

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