2024 Undergraduate degrees

THE UNIVERSITY OF NEWCASTLE AUSTRALIA

Contents

The University of Newcastle acknowledges the traditional custodians of the lands within our footprint areas: Awabakal, Darkinjung, Biripai, Worimi, Wonnarua, Gomeroi and Eora Nations. We pay respect to the wisdom of our Elders both past and present. We also acknowledge and pay respect to the other Aboriginal and Torres Strait Islander nations from which our students, staff and community are drawn.

Career ideas

	You like	You could study	You could be
	Art, Business Studies, Design and Technology, Economics, Geography, Maths	**Architecture, Building and Construction**	Architect, Building Certifier, Building Surveyor, Construction Manager, Drafter, Product Designer, Project Manager, Property Developer, Quantity Surveyor, Town Planner
	Business Studies, Economics, English, Geography, Languages, Maths	**Business and Management**	Accountant, Account Manager, Business Analyst, Business Development Officer, Data Analyst, Economist, Entrepreneur, Financial Planner, Human Resources Officer, Investment Banker, Marketing Officer, Mortgage Broker, Sports Development Officer, Stockbroker
	Business Studies, Criminology, Data Science, Design and Technology, English, Industrial Technology, Information Technology, Maths, Physics	**Computing, Maths and Technology**	Artificial Intelligence and Machine Learning Specialist, Big Data Specialist, Computer Game Developer, Computer Scientist, Cyber Security Advisor, Mathematician, Meteorologist, Risk Analyst, Web Developer
	Art, Design and Technology, Drama, Movies and Television, Writing, Music, Social Media	**Creative Industries and Communication**	Animator, Artist, Copywriter, Filmmaker, Graphic Designer, Journalist, Multimedia Designer, Musician, Public Relations Officer
	Art, Biology, Chemistry, Criminology, Design and Technology, Drama, English, Geography, Health and Physical Education, History, Languages, Maths, Metal Work, Music, Science, Wood Work	**Education**	English as a Second Language Teacher, Learning and Development Consultant, Sport and Recreation Officer, Special Education Teacher, Teacher
	Art, Business Studies, Chemistry, Design and Technology, Engineering Studies, Industrial Technology, Maths, Physics, Science	**Engineering**	Computer Architect, Environmental Impact Consultant, Prosthetics Designer, Robotics Engineer, Satellite Engineer, Structural Engineer, Surveyor, Urban Development Engineer
	Biology, Chemistry, Food Technology, Health and Physical Education, Maths, Science, Physics	**Health and Medicine**	Dental Therapist, Dietitian, Doctor, Exercise Scientist, Food Scientist, Midwife, Nuclear Medicine Technologist, Nurse, Occupational Therapist, Pharmacist, Physiotherapist, Podiatrist, Psychologist, Radiographer, Speech Pathologist, Surgeon
	Art, Biology, Community and Family Studies, English, Geography, Health and Physical Education, History, Languages, Maths, Music, Religion, Society and Culture	**Humanities and Social Sciences**	Community Development Worker, Cultural Heritage Conservationist, Demographer, Environmental Manager, Historian, Human Geographer, International Aid Worker, Media Analyst, Migrant Support Officer, Policy Developer, Social Worker, Town Planner, Translator, Youth Worker
	Business Studies, Criminology, Economics, English, History, Languages, Legal Studies, Media and Entertainment Studies	**Law**	Barrister, Contracts Manager, Industrial Relations Officer, In-House Counsel, International Aid Worker, Lawyer, Lobbyist, Police Detective, Policy Reformer, Political Adviser, Private Investigator, Regulator
	Agriculture, Biology, Business Studies, Chemistry, Earth and Environmental Science, Economics, Geography, Health and Physical Education, Information Technology, Marine Science, Maths, Physics, Science	**Science and the Environment**	Botanist, Climate Change Analyst, Climate Scientist, Data Analyst, Exercise Scientist, Food Scientist, Forensic Chemist, Geologist, Marine Biologist, Medicinal Chemist, Microbiologist, Physicist, Psychologist, Researcher, Scientific Journalist, Statistician, Wildlife Conservationist

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Architecture, Building and Construction 38

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Construction Management (Building) (Honours)	4 yrs FT / 10 yrs PT	65.00	40
Bachelor of Design (Architecture)	3 yrs FT / 8 yrs PT	65.00	40
Diploma in Built Environment	1 yr FT / 4 yrs PT	50.00	41

Business and Management 42

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Business	3 yrs FT / 8 yrs PT	62.00	44
Bachelor of Business Analytics	3 yrs FT / 8 yrs PT	62.00	44
Bachelor of Commerce	3 yrs FT / 8 yrs PT	62.00	45
Bachelor of Innovation and Entrepreneurship (Combined)	4 yrs FT / 10 yrs PT	N/A[1]	45
Bachelor of Tourism, Hospitality and Events	4 yrs FT / 10 yrs PT	62.00	46
Diploma in Business	1 yr FT / 4 yrs PT	50.00	46

COMBINED DEGREES

- Bachelor of Arts/Bachelor of Innovation and Entrepreneurship
- Bachelor of Business/Bachelor of Business Analytics
- Bachelor of Business/Bachelor of Commerce
- Bachelor of Business/Bachelor of Innovation and Entrepreneurship
- Bachelor of Business/Bachelor of Laws (Honours)
- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- Bachelor of Commerce/Bachelor of Business Analytics
- Bachelor of Commerce/Bachelor of Innovation and Entrepreneurship
- Bachelor of Commerce/Bachelor of Laws (Honours)
- Bachelor of Development Studies/Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
- Bachelor of Environmental Science and Management/Bachelor of Business
- Bachelor of Food Science and Human Nutrition/Bachelor of Business
- Bachelor of Information Technology/Bachelor of Business
- Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Psychological Science/Bachelor of Business
- Bachelor of Science/Bachelor of Innovation and Entrepreneurship
- Bachelor of Surveying (Honours)/Bachelor of Business

Computing, Maths and Technology 48

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Computer Science	3 yrs FT / 8 yrs PT	65.00	50
Bachelor of Data Science	3 yrs FT / 8 yrs PT	70.00	50
Bachelor of Information Technology	3 yrs FT / 8 yrs PT	65.00	51
Bachelor of Mathematics	3 yrs FT / 8 yrs PT	75.00	51
Bachelor of Mathematics (Advanced)	3 yrs FT / 8 yrs PT	90.00	52
Diploma in Data Analytics	1 yr FT / 4 yrs PT	50.00	52
Diploma in Information Technology	1 yr FT / 4 yrs PT	50.00	53

COMBINED DEGREES

- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Data Science/Bachelor of Computer Science
- Bachelor of Data Science/Bachelor of Mathematics
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Information Technology/Bachelor of Business
- Bachelor of Mathematics/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Mathematics

duate degrees

Creative Industries and Communication 54

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Media and Communication	3 yrs FT / 8 yrs PT	62.00	56
Bachelor of Music and Performing Arts	3 yrs FT / 8 yrs PT	N/A[2]	56
Bachelor of Visual Communication Design	3 yrs FT / 8 yrs PT	62.00	57

COMBINED DEGREES

- Bachelor of Media and Communication/ Bachelor of Development Studies
- Bachelor of Media and Communication/Bachelor of Laws (Honours)
- Bachelor of Media and Communication/ Bachelor of Psychological Science
- Bachelor of Music and Performing Arts/Bachelor of Arts

Education 58

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Education (Early Childhood and Primary)	4 yrs FT / 10 yrs PT	65.00	60
Bachelor of Education (Primary)	4 yrs FT / 10 yrs PT	65.00	60
Bachelor of Education (Secondary)	4 yrs FT / 10 yrs PT	65.00	61
Diploma in Education Studies	1 yr FT / 4 yrs PT	50.00	61

Engineering 62

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Aerospace Systems Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	64
Bachelor of Chemical Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	64
Bachelor of Civil Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	65
Bachelor of Computer Systems Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	65
Bachelor of Electrical and Electronic Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	66
Bachelor of Engineering (Mining Transfer Program)	4 yrs FT / 10 yrs PT	75.00	66
Bachelor of Environmental Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	67
Bachelor of Mechanical Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	67
Bachelor of Mechatronics Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	68
Bachelor of Medical Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	68
Bachelor of Renewable Energy Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	69
Bachelor of Software Engineering (Honours)	4 yrs FT / 10 yrs PT	75.00	69
Bachelor of Surveying (Honours)	4 yrs FT / 10 yrs PT	75.00	70
Diploma in Engineering	1 yr FT / 4 yrs PT	50.00	70

COMBINED DEGREES

- Bachelor of Aerospace Systems Engineering (Honours)/Bachelor of Mechanical Engineering (Honours)
- Bachelor of Aerospace Systems Engineering (Honours)/Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Environmental Engineering (Honours)
- Bachelor of Civil Engineering (Honours)/ Bachelor of Mathematics
- Bachelor of Civil Engineering (Honours)/ Bachelor of Surveying (Honours)
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Science
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Mathematics
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of MathematicsBachelor of Surveying (Honours)/Bachelor of Business

Health and Medicine 72

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Biomedical Science	3 yrs FT / 8 yrs PT	70.00	
Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)	4 yrs FT	85.00	
Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)	4 yrs FT	71.00	
Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)	4 yrs FT	71.00	
Bachelor of Medical Science/Doctor of Medicine (Joint Medical Program)	5 yrs FT	N/A[2]	
Bachelor of Midwifery	3 yrs FT / 5 yrs PT	78.00	
Bachelor of Nursing	3 yrs FT / 6 yrs PT	63.00	
Bachelor of Nutrition and Dietetics (Honours)	4 yrs FT	70.00	
Bachelor of Occupational Therapy (Honours)	4 yrs FT	87.00	
Bachelor of Oral Health Therapy	3 yrs FT	85.00	
Bachelor of Pharmacy (Honours)	4 yrs FT	70.00	
Bachelor of Physiotherapy (Honours)	4 yrs FT	95.00	
Bachelor of Podiatry	3 yrs FT	70.00	
Bachelor of Speech Pathology (Honours)	4 yrs FT / 10 yrs PT	70.00	

COMBINED DEGREES

- Bachelor of Biomedicine/Bachelor of Laws (Honours)

Humanities and Social Sciences 82

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Arts	3 yrs FT / 8 yrs PT	62.00	84
Bachelor of Development Studies	3 yrs FT / 8 yrs PT	68.00	84
Bachelor of Global Indigenous Studies	3 yrs FT / 8 yrs PT	62.00	85
Bachelor of Social Science	3 yrs FT / 8 yrs PT	62.00	85
Bachelor of Social Work (Honours)	4 yrs FT / 10 yrs PT	65.00	86
Diploma in Arts and Social Science	1 yr FT / 4 yrs PT	50.00	86
Diploma in Languages	1 yr FT / 6 yrs PT	N/A[2]	87

COMBINED DEGREES

- Bachelor of Arts/Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Arts/Bachelor of Laws (Honours) Combined
- Bachelor of Arts/Bachelor of Music and Performing Arts
- Bachelor of Arts/Bachelor of Science
- Bachelor of Development Studies/Bachelor of Business
- Bachelor of Development Studies/Bachelor of Media and Communication
- Bachelor of Development Studies/Bachelor of Global Indigenous Studies
- Bachelor of Development Studies/Bachelor of Laws (Honours) Combined
- Bachelor of Development Studies/Bachelor of Social Science
- Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours) Combined
- Bachelor of Psychological Science/Bachelor of Social Science
- Bachelor of Social Science/Bachelor of Laws (Honours) Combined

Law 88

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Criminology	3 yrs FT / 8 yrs PT	62.00	90
Bachelor of Laws (Honours) Combined	5 yrs FT	85.00	90

COMBINED DEGREES

- Bachelor of Arts/Bachelor of Laws (Honours)
- Bachelor of Biomedicine/Bachelor of Laws (Honours)
- Bachelor of Business/Bachelor of Laws (Honours)
- Bachelor of Commerce/Bachelor of Laws (Honours)
- Bachelor of Media and Communication/Bachelor of Laws (Honours)
- Bachelor of Criminology/Bachelor of Laws (Honours)
- Bachelor of Criminology/Bachelor of Psychological Science
- Bachelor of Development Studies/Bachelor of Laws (Honours)
- Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours)
- Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)
- Bachelor of Psychological Science/Bachelor of Laws (Honours)
- Bachelor of Science/Bachelor of Laws (Honours)
- Bachelor of Social Science/Bachelor of Laws (Honours)

Science and the Environment

DEGREE NAME	DURATION	2023 SR	PAGE
Bachelor of Biotechnology	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Climate Science and Adaptation	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Coastal and Marine Science	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Environmental Science and Management	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Exercise and Sport Science	3 yrs FT / 8 yrs PT	63.00	
Bachelor of Food Science and Human Nutrition	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Psychological Science	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Psychological Science (Advanced)	3 yrs FT / 8 yrs PT	90.00	
Bachelor of Science	3 yrs FT / 8 yrs PT	65.00	
Bachelor of Science (Advanced)	3 yrs FT / 8 yrs PT	90.00	
Diploma in Environmental Science	1 yr FT / 4 yrs PT	50.00	
Diploma in Science	1 yr FT / 4 yrs PT	50.00	

COMBINED DEGREES

- Bachelor of Arts/Bachelor of Science
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Science (Physics major)
- Bachelor of Criminology/Bachelor of Psychological Science
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science (Physics major)
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science (Earth Sciences major)
- Bachelor of Environmental Science and Management/Bachelor of Business
- Bachelor of Food Science and Human Nutrition/Bachelor of Business
- Bachelor of Mathematics/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science (Physics major)
- Bachelor of Psychological Science/Bachelor of Business
- Bachelor of Psychological Science/Bachelor of Media and Communication
- Bachelor of Psychological Science/Bachelor of Social Science
- Bachelor of Science/Bachelor of Innovation and Entrepreneurship
- Bachelor of Science/Bachelor of Laws (Honours)

1 Combined degree only. See degree information for individual selection ranks
2 See degree information for further details
3 ATAR + other selection criteria. See degree information for further details.
Combined degrees may have differences in Selection Ranks, durations and other criteria.
Please see the website for specific information about each combined degree.

#1
in Australia for Partnering for a Sustainable Future[3]

5-star rating
for social equity[1]

Largest provider
of pathway programs in Australia[4]

Ranked 192
in the world[5]

Welcome to the University of Newcastle

Thank you for considering the University of Newcastle as the destination where you can become a life-ready graduate – work ready, healthy and community minded. For more than 50 years we have been delivering world-class education to talented students, just like you, from right across the globe. In fact, with over 39,096 students from more than 98 countries[6], you will always feel welcome here. Offering an outstanding student experience is at the heart of what we do.

We are a Top 200 world university and our degrees are shaped around work placements, global learning and entrepreneurial approaches to study. We offer the latest technologies and innovative learning spaces to deliver an exceptional educational experience.

At the University of Newcastle, we are proud of our strong connection to our local communities. Many of our lecturers work directly with local industry, and as a student you will benefit from countless opportunities that arise from this unique access to business and government.

We also believe in connecting your degree with research that delivers real impact, and we're proud that our researchers are among the world's best. As a student, you will learn from these ground-breaking researchers who are creating new advances, not just in Australia, but around the world.

We look forward to welcoming you to our beautiful campuses and our vibrant education program.

Professor Alex Zelinsky AO
Vice-Chancellor and President

1 The Good Universities Guide 2022.
2 Innovation Connections IC Report 2014 - 2020.
3 Times Higher Education Impact Rankings 2022.
4 Department of Education Selected Higher Education Statistics – 2019 Student Data.
5 QS World University Rankings 2023.
6 The University of Newcastle Data Warehouse 2021.

Commitment to equity

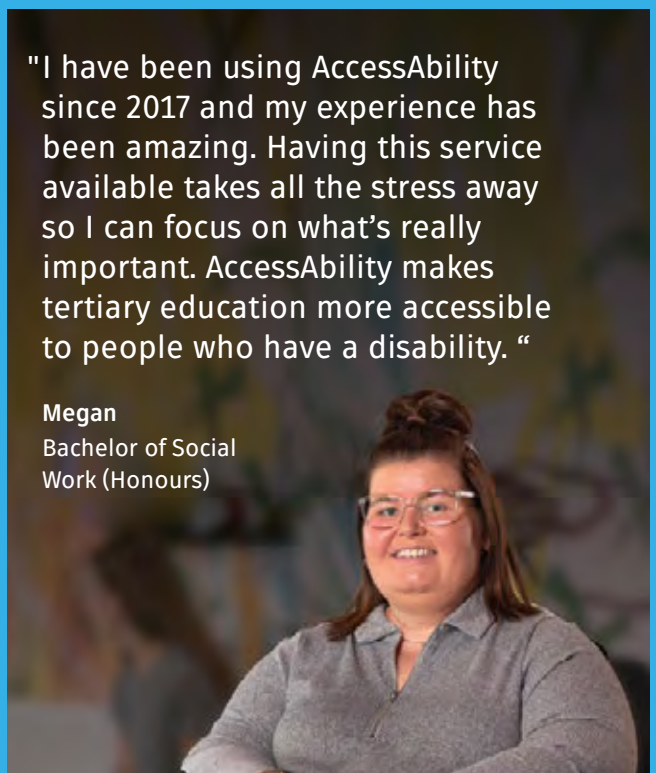
For nearly 50 years, our University has led the way in providing equity of access to higher education. We believe that equitable access is fundamental, and creates positive change in the communities our alumni live and work in. Over half our domestic undergraduate students are the first in their family to go to university, inspiring other relatives and friends to explore further education.

Supporting you, every step of the way

At the University of Newcastle, we'll support you throughout your educational experience. Our entry options mean there's more than one pathway to get into your degree and our scholarships will give you the extra support that might be needed to get you through your studies.

Every age and every life stage

We engage primary and high school students in our Uni Steps program and Schools to University (S2U) program to demystify the university experience and encourage them into further education. We also provide free academic and peer support for our students, and in particular those that study with us through our pathway programs like Open Foundation and Yapug. If you've ever thought that uni is not for you, think again. A higher education is for anyone who wants to learn, regardless of their background, circumstances, or abilities.



Indigenous support

The Wollotuka Institute and Thurru Indigenous Health Unit will assist you by providing a welcoming space and a place to connect with other Aboriginal and Torres Strait Islander students. You can also access mentorship, tutoring and scholarship assistance from experienced staff, Elders and cultural leaders.

We'll offer you programs that provide multiple pathways to uni and beyond, like our Aboriginal and Torres Strait Islander Admission Scheme, Indigenous Early Entry Law Scheme, with guaranteed places into our law program, our Miroma Bunbilla Program, a pre-entry pathway to the Joint Medical Program, and our Yapug pathway program into our undergraduate degrees.

You'll join a safe and welcoming cultural space, with a diverse staff and student community that celebrates equity and inclusion. You'll have access to the knowledge, industry connections and real-world learning experiences to prepare you for your career and life. Join our community and start your journey today.

Accessibility

We're committed to providing an equitable learning environment for all future and current students – including those with disabilities or medical conditions that may affect their participation, engagement or learning opportunities.

Our AccessAbility initiative aims to support students to reach their full academic potential and create an environment that promotes independence and success.

Learn more about our AccessAbility initatives

A Kamilaroi man, originally based in Tamworth, Kobey's culture has always been important to him.

Initially pursuing nursing, Kobey has always been interested in helping others. "I want to look after people, give back, and just be a really good person and role model", Kobey said.

Following a recommended course load, he completed his HSC but was surprised to learn he would not receive an ATAR.

Not letting this set back stop him, Kobey reached out to his teacher at Clontarf Foundation who helped put him in touch with the University of Newcastle. Visiting the Wollotuka Institute, Kobey learned about the different options available to him and decided to pursue our Yapug pathway program, "I was lucky enough to enrol in Yapug. I wouldn't change a thing about my story because Yapug helped me so much".

After one semester of Yapug, Kobey was again considering his options. Still pursuing nursing, he thought that medicine was not an option. Staff at the Wollotuka Institute could see Kobey's potential and urged him to look at all the possibilities, suggesting he would be perfect for medicine and to consider the Miroma Bunbilla pathway to medicine.

"It really opened my eyes. I was like, wow, I really want to do this". The 5-day assessment program solidified Kobey's interest in pursuing medicine, having learned about the skills required to become a doctor.

Thinking about his next steps, Kobey also wondered how he would balance work, study and life. After seeing a Ma & Morley Scholarship poster, Kobey thought he'd apply and was successful.

After being awarded a Ma & Morley Scholarship and completing the Miroma Bunbilla assessment program, Kobey learned he had been admitted to the Joint Medical Program (JMP). "I found out I made it into medicine at 2:30am. I started waking everyone up saying I made it, I made it, I made it".

Kobey has now begun his degree and is enjoying the challenge. He wants to help inspire other Indigenous people to pursue their dreams, letting them know anything is possible, "that's my goal, to help young Indigenous people understand that it's always possible to put your mind to things if you want it".

Kobey
Bachelor of Medical Science and Doctor of Medicine
Ma & Morley Scholar 2022

1,600+
Indigenous graduates[1]

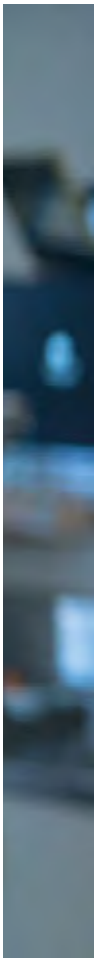
1 Data Warehouse 2021.

Life-ready graduates

With outstanding graduate employment rates, you can be confident you'll gain the knowledge, industry connections and real-world experience needed to create the career you want.

The search for your future career doesn't have to wait until you graduate. You can access professional careers advice at any stage throughout your degree. Whether it's through our Career Hub online service, career counselling, meeting employers on campus, or creating the perfect resume – we're here to help you graduate, ready to make an impact.

3,000+ employer connections[1]



Industry partners

We have strong partnerships with local and global organisations. When you study with us, you'll have the opportunity to collaborate with some of the best industries Newcastle has to offer. Some of our partners include:

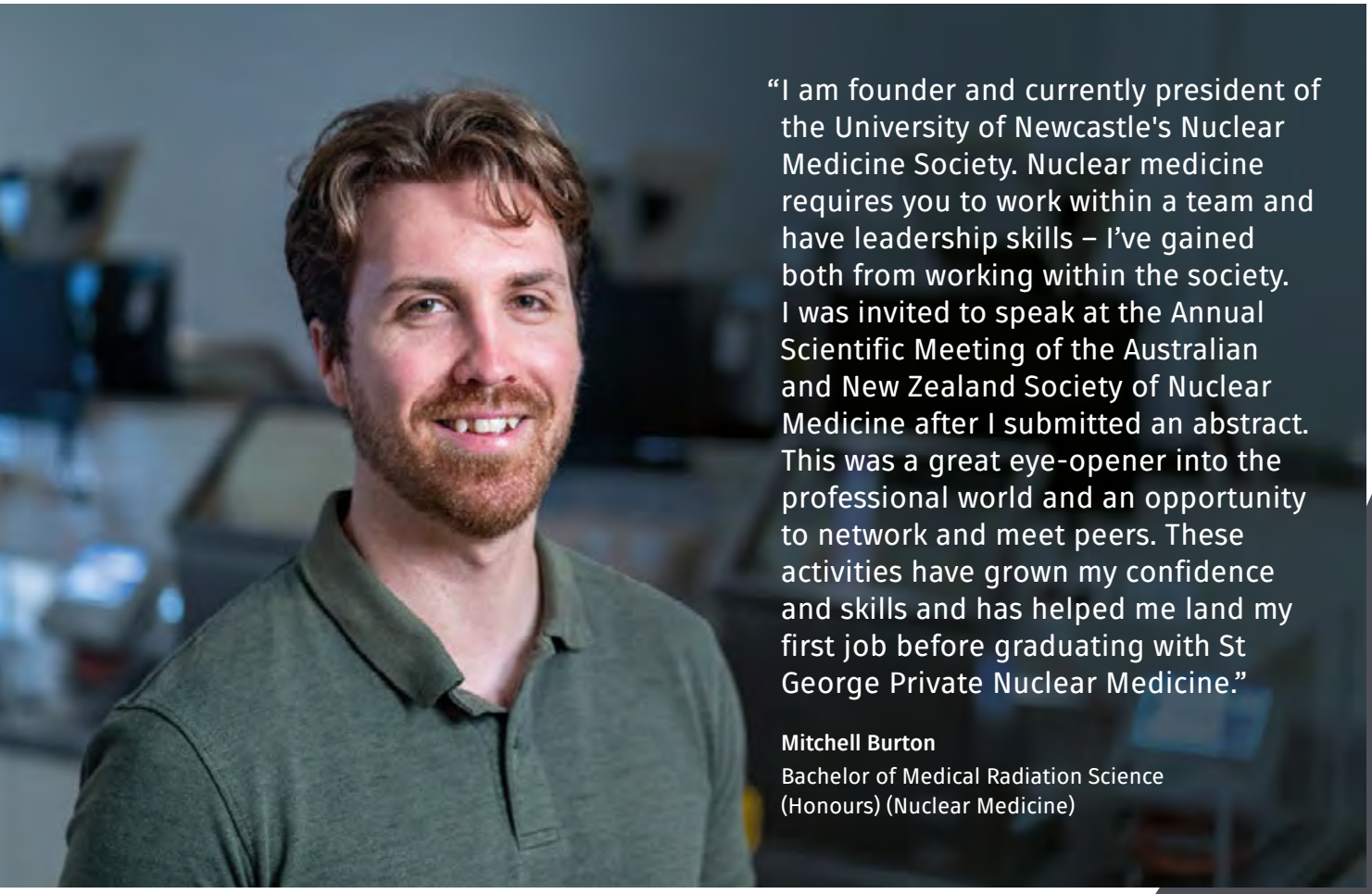
- AECOM
- Australia Public Service
- Australian Taxation Office
- BMG Australia
- Central Coast Local Health Districts
- CSIRO
- Elekta Pty Ltd
- Engineers Australia
- Greater Bank
- Hunter Medical Research Institute
- Hunter New England Health
- Johnson and Johnson
- KPMG
- Legal Aid
- Mars
- Newcastle Jets
- North Construction & Building
- Port of Newcastle
- PWC
- Sinosteel
- Snowy Hydro

Here, you'll have the opportunity to participate in global learning experiences in countries such as Canada, China, Germany, Singapore, the South Pacific, the United Kingdom, and the United States of America, among others.

"During my placement, I worked within the electrical engineering team and worked on the Crudine Ridge Wind Farm, Murra Warra Wind Farm and Rye Park Wind Farm. To be designing and developing wind turbine farms – it's just out of this world that I'm already participating in that. I think it's just proving to me that my degree is wanted in industries, so I feel very lucky to be given that opportunity."

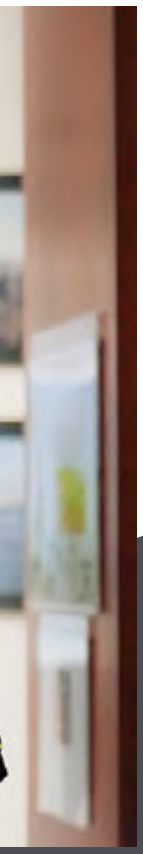
Jessica
Bachelor of Renewable Energy Engineering (Honours)
Work placement – Zenviron

1 The University of Newcastle Employability and Enterprise Data.



"I am founder and currently president of the University of Newcastle's Nuclear Medicine Society. Nuclear medicine requires you to work within a team and have leadership skills – I've gained both from working within the society. I was invited to speak at the Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine after I submitted an abstract. This was a great eye-opener into the professional world and an opportunity to network and meet peers. These activities have grown my confidence and skills and has helped me land my first job before graduating with St George Private Nuclear Medicine."

Mitchell Burton
Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)



$66,800

Median starting salary for undergraduate employment[2]

We're home to Australia's only UNITAR accredited training centre – CIFAL Newcastle

Study electives aligned to the United Nations Sustainable Development Goals and get United Nations co-accreditation for your studies.

cifal.newcastle.edu.au

cifal Newcastle

unitar United Nations Institute for Training and Research

2 Graduate Outcomes Survey 2020-2022.

Inspired learning

We believe a great learning environment should inspire you. Excite you. And ultimately, prepare you to enter your chosen industry with the confidence and professional experience needed to stand out in the crowd.

Explore our leading-edge facilities, labs, simulators, collaboration zones and more when you study with us.

Food Innovation Centre

Located in the Science Labs at Ourimbah campus, experience our state-of-the-art Food Innovation Centre. Combining commercial grade kitchens with a connected food analysis laboratory, students can undertake product development, initiating and testing product concepts, just like it is done in the industry.

Nursing Simulation Labs

Our world-class nursing simulation labs, located at the University of Newcastle's Central Coast Clinical School in Gosford, provide our students with the opportunity to gain hands-on clinical experience which can be applied to their professional placements.

Greater Bank Finance Lab

Located on level 1 of the Newcastle City campus (NUspace), experience our state-of-the-art Greater Bank Finance Lab and explore the lab infrastructure including market simulator, workstations and other technologies which provide students with a hands-on learning experience in our finance and accounting programs.

Surgical Skills Unit

Located at Callaghan campus, Medical Sciences West is a purpose-built four-storey building that offers state-of-the-art facilities such as wet and dry anatomy facilities, a 120-person teaching lab and preparation space, a specimen museum and group study areas. Students studying a range of medical sciences degrees, including biotechnology, medicine, pharmacy, radiation therapy and speech therapy can build their practical skills in this remarkable precinct.

Marketing Technology Lab

Located on level 6 of the Newcastle City campus (NUspace), the Marketing Technology Lab is a dedicated space to develop the skills of the next generation of marketing professionals.

Simteach

Our virtual reality teaching tool, located within the School of Education at our Callaghan campus, provides our education students with realistic teaching experiences in a simulated environment.

Real-world experience

Sometimes it's best to dive straight in. That's why having the chance to get exciting industry experience is part of all our degrees.

We have strong partnerships with local and global organisations, meaning everything you study is shaped by the real world and you'll graduate ready for a career in your field. Maybe you'll intern with your favourite sporting team, or produce a music video for a major Australian band. You might work with communities in Indonesia to help overcome serious environmental issues, or get a behind-the-scenes look at how a national event comes together.

Whether it's through an internship, practical placement, project-based learning, or work placement, nothing prepares you for the real world like working in it.

Brett completed work placement at St Vincent Hospital in Lismore NSW during one of the worst flood catastrophes the state has ever seen.

"My placement was predominately on a surgical ward, with rotations through Theatre, Oncology, Renal Dialysis, Gastroenterology, palliative care, rehabilitation and medical wards. I had exposure to, and working, with central venous catheters (CVC), bella vac and wound vac drains. I had learned insight, but no experience working with them prior to this placement – now I feel my knowledge and practical experience is sufficient that I could confidently nurse patients."

Brett
Bachelor of Nursing

Check out Brett's story

Jake completed an internship at Lake Macquarie City Council as a Circular Economy Intern.

"I definitely feel that this experience gave me confidence in applying the knowledge I have gained in my degree. It's also a relief knowing that most people will support you as much as possible when entering the workforce. I ended up gaining employment with an affiliate of Lake Macquarie and I am still working there. I've been given a rather autonomous role and am able to contribute to the development of this organisation."

Jake
Bachelor of Development Studies (Honours)

Jane has undertaken many work placement opportunities during her degree, including a public school, aged care and Aphasia Clinic and Indigenous preschool.

"I worked with children and adults to deliver speech pathology services just as a fully qualified speech pathologist would. I learnt more about how to interact with a real human that was experiencing a real problem and how to come up with a real intervention approach. I feel like I have enough experience to transition from a student to a working speech pathologist."

Jane
Bachelor of Speech Pathology (Honours)

Check out Jane's story

iLEAD

iLEAD is the leadership program you need to position yourself as an adaptive and engaged leader in a global marketplace.

iLEAD is a globally-focussed leadership program that connects you with local, national and international networks and experiences to accelerate your professional development and career readiness. Through carefully curated workshops, mentoring relationships and international experiences, you'll develop a set of skills, traits and perspectives that will position you as a leader of tomorrow.

Learn more about iLead

"Being part of iLEAD has given me the confidence in my skills and the practical experience in a professional environment to be able to network with the people working in my field. The mentorship program has helped me better adapt to my undergraduate role in strategic planning as I am able to ask my mentor for advice on how to navigate new environments."

Olivia
Bachelor of Development Studies

Entrepreneurial opportunities

From left to right: Pat, Bachelor of Mechatronics Engineering (Honours), 2019, Tim, Bachelor of Medical Science (Honours), 2019, Bal, Bachelor of Medical Science (Honours), 2019 and Dan.

If you have passion, drive and big ideas, we're here to help make them a reality. That's why we give you countless opportunities to fine-tune your skills, make the right connections and take your ideas to the next level.

We offer the facilities, courses, mentors and support you need to succeed. Sign up for one of our innovation or entrepreneurship courses, get guidance on your startup through our Integrated Innovation Network (I2N), or use your major project to build a robot that can help save lives. The possibilities are only limited by your imagination.

Borne Clothing

"Fundamentally we started with a problem, which is that malaria is a massive burden of disease around the world, especially in Sub-Saharan Africa and South East Asia,"

Student start-up Borne Clothing has developed a mosquito-repelling clothing line that is contributing to the fight against malaria. The clothing is treated with the active ingredient permethrin, a World Health Organisation-approved deterrent to flies, ticks, midges and mosquitoes.

The Borne four direct half of their profits to Nothing But Nets, a UN initiative that provides insecticidal bed nets and other aid to people in countries riddled with mosquito-borne diseases such as malaria. So far, that is an amount in the thousands of dollars. With the help of the university's Integrated Innovation Network (I2N), the four have concentrated their label's formative years on advocating for the campaign, but hope to increase the amount they donate.

Find out more here

Build your ideas, test your thinking and access industry experts. Together we can make big things happen.

1 Innovation Connections IC Report 2014 - 2020.

#1
ranked university in Australia for Industry Collaboration[1]

Integrated Innovation Network (I2N)

I2N is the University's epicentre of entrepreneurship.

Its headquarters, located at Honeysuckle, is purpose-built to drive enterprise skill development and startup success with state-of-the-art facilities including a makerspace and free coworking for pre-startups. Connect to a community of change-makers, and their supporters, by engaging in a range of free networking events, hackathons, mentoring, and pre-accelerator programs.

Learn more about I2N

From left to right: Eric, Bachelor of Electrical Engineering (Honours), 2016 and Master of Professional Engineering (Electrical and Electronic), 2017, Cameron, Bachelor of Computer Systems Engineering, 2014, and Liam, Bachelor of Business.

SAPHI Engineering

"We are a team of young founders, we felt we needed some experienced wisdom from leaders who have been in our shoes, when we came across I2N's Venture Mentor Service and saw the mentor panel we could have access to, it was a no-brainer for us."

Software and electronics development company, SAPHI Engineering, delivers technical solutions to their customers. Passionate to start a community-minded tech company, Cameron, Eric and Liam are a team of young founders who want to be renowned for their ability to innovate.

Seeking guidance and advice, they came across I2N's Venture Mentor Service program, and it was an opportunity too good to pass up. The program has enabled the young founders to; uncover potential they never knew existed, provided a guiding light when they needed to focus, helped them mature as founders and develop a strong frame of reference related to structuring and growing a business.

Find out more here

Global experiences

Are you keen to take your studies around the world? When you study here, you could travel and get credit for your degree at the same time.

There are opportunities for international experiences across every area of study, whether it's an overseas exchange program, study tour or work placement. Build global connections, discover new cultures, try new food and make friends from all over the world. With more than 100 partner universities spanning all major continents, it really is the chance of a lifetime.

Learn more about global experiences

75%
of students who undertook an overseas placement or internship said it helped them to gain employment[1]

"I got to experience different religious traditions by participating in the Jewish holiday of Rosh Hashanah through my history course at the University. I got the full experience of an American student, living in the dorms made it easy to make new friends and much more accessible to the campus."

Temperance
Bachelor of Arts/Bachelor of Laws (Honours)
Semester Exchange – North Carolina

Semester exchange

With the option to live and study overseas for either one semester or one year, this is your chance to truly immerse yourself in a new culture and way of life. You remain enrolled and paying tuition at the University of Newcastle, and earn credit towards your degree while abroad.

Academic short courses

Generally between two to four weeks in duration, short courses are a great option if you want to add an international element to your degree and have a spare elective. A wide range of short-term programs are on offer for students all over the world.

Study tours

A study tour is a unique global experience that combines travel with real-world experience in your area of study. Tours – led by experienced University of Newcastle staff – are a chance to travel with other students and gain the experience of a lifetime.

Global internships and placements

Enrich your learning and expand your connections in the field through an international internship or placement. You will gain hands-on experience in established organisations – all while seeing the world.

1 IEAA - Career outcomes of learning abroad report 2020.

180 Partnerships in 32 countries

for student exchange and study abroad programs

"You will be pushed to your limits in many ways, and you'll be able to see what you're truly capable of. You will have so many chances to make amazing new lifelong friends, not just from your host country but from students all over the world who come to study with you."

Bea
Bachelor of Visual Communication Design
Diploma in Languages
Two-semester exchange, internship and language school – Nagoya University of Foreign Studies, Japan
2021 New Colombo Plan Scholar

Check out Bea's story

New Colombo Plan

The New Colombo Plan Scholarship (NCP) and Mobility Programs are the most prestigious undergraduate scholarships in the country. Since launching in 2014, 40 University of Newcastle students have been awarded as NCP Scholars. The University has received over $13 million dollars in funding through the Mobility Program to support over 3,500 undergraduate students to participate in semester-based or short-term study and internships, mentorships, practicums, and research in 40 host locations across the Indo-Pacific region.

Learn more about New Colombo Plan

Other international opportunities

Whether it is collaborating on projects with overseas students or attending international conferences or global competitions – we believe in creating opportunities for you to collaborate with like-minded students, expand your thinking and make global connections.

Studying abroad develops your skills and gives you the potential to excel in your future career

Where you'll study

Newcastle City campus, NUspace

Our campuses are welcoming and collaborative environments.

Our main campuses are in Newcastle and on the Central Coast, however you might take opportunities to study at one of our regional NSW centres, at our Singapore campus or one of our many partner universities around the world.

Scan to discover campus life

Newcastle (City)

In the heart of the CBD, our Newcastle City campus, found on Awabakal and Worimi lands, provides an integral link with industry in creativity, business and law. Home to the University of Newcastle's School of Law and Justice and Newcastle Business School, NUspace harnesses the latest in technology and innovation to deliver a world-class student experience.

Overlooking Newcastle harbour, Q Building is home to Creative Industries as well as our Integrated Innovation Network (I2N) Hub, with specialised studios and technologies, and shared spaces to connect with staff, industry, and community.

Just a few minutes walk from Q Building, The Forum Harbourside offers leading health and fitness facilities in a convenient location.

Located in the Newcastle City Precinct, the Conservatorium boasts state-of-the-art concert and teaching facilities and is home to our music and performing arts programs.

We acknowledge the traditional custodians of the lands within our footprint areas: Awabakal, Darkinjung, Biripai, Worimi, Wonnarua, Gomeroi and Eora Nations. We pay respect to the wisdom of our Elders both past and present. We also acknowledge and pay respect to the other Aboriginal and Torres Strait Islander nations from which our students, staff and community are drawn.

More than

$125 million

invested into the Newcastle City campus over the past five years

Scan to take a campus tour

Top regional university

One of the top regional universities in Australia[1]

Newcastle (Callaghan)

Our Newcastle Callaghan campus, located on Awabakal land, is a central hub for education, humanities, social science, and the fields of science, technology, engineering, mathematics, health and medicine. The region's largest hospitals, the Hunter Medical Research Institute, schools, early childcare facilities, and local defence and industrial hubs are all in close proximity. With all this on your doorstep, you'll have plenty of chances to meet industry leaders and build practical skills. Also located at our Newcastle Callaghan campus, NUsport at The Forum offers state-of-the-art health and fitness facilities and programs to help maintain your physical and mental wellbeing.

Central Coast (Ourimbah)

Only an hour drive from Newcastle or Sydney, our Central Coast campus at Ourimbah, found on Darkinjung land, offers study programs in business, education, humanities and social science, oral health therapy, podiatry and science (food and human nutrition, coastal and marine, environmental management, and exercise and sports science).

Central Coast (Gosford)

Strategically located on the grounds of Gosford Hospital, our world-class Central Coast Clinical School, found on Darkinjung land, has transformed the region into a leader in health, research, innovation and education.

Our state-of-the-art facility offers an immersive learning environment with a threeward simulation centre, anatomy and histology laboratory, research laboratories, virtual reality spaces and more.

Our students benefit from strong links with local industry and partnerships with the Central Coast Local Health District for nursing and specialised health degrees.

Travel time*

Newcastle City campus	3mins
Callaghan campus	25mins
Lake Macquarie	25mins
Newcastle Airport	35mins
Hunter Valley	55mins
Port Stephens	1hr
Ourimbah campus	1hr 10mins
Gosford campus	1hr 20mins
Sydney	2hrs 30mins

* All distances are taken from Newcastle CBD and are estimates only.

1 QS World University Rankings 2021.

Live like a local

Whether you're already a local who knows and loves the Newcastle and Central Coast regions, or are from out of town and ready to make the sea change, we've compiled a list of the top 10 things to see and do.

1 **Sip by the sea** – one of the great things about our coastline is that you're never too far away from a hot coffee in the morning or a cold drink in the afternoon. Why not stop in at one of the local surf clubs or grab a seat in a café and enjoy some of the best views in the country.

2 **Shop 'til you drop** – if the weather isn't on your side, set out for one of the local shopping centres and spend the day restocking your wardrobe.
Tip: Long Jetty is home to some great boutique shopping and an even better coffee scene so you can recharge between stores.

3 **Tune out** – catch some live music at the iconic Cambridge Hotel, the Bar on the Hill at Callaghan campus or local festivals. Newcastle and the Central Coast are renowned for their music scenes, and there are always plenty of home-grown and international gigs to enjoy.

4 **Coastal walk** – pack your swimmers and enjoy the beautiful sights of Newcastle on foot by following the coastal trail from Nobbys to Merewether Beach, or witness the infamous sandstone cliffs surrounding the Central Coast's Bouddi Coastal Walk.

5 **Get back to nature** – are you looking for an outdoor adventure? Head to Glenworth Valley! Located on the Central Coast, Glenworth offers a variety of outdoor activities including horse riding, quad biking, kayaking, abseiling and even laser skirmish. You can camp there too, so make sure to bring some marshmallows. If you're after an adrenaline boost, give the self-guided high ropes course at TreeTops a crack, located at both Newcastle and the Central Coast. Or enjoy a leisurely cycle along one of the many bike tracks around – Fernleigh Track in Newcastle and Tuggerah Lakes Cycleway on the Central Coast are two crowd favourites.

6 **Flock to the flicks** – relax and recline in a squishy armchair at one of the big cinemas. If you're looking for more character, support local institutions such as Lake Cinema Boolaroo, where loose change gets you a ticket, drinks and snacks, or enjoy a film at Avoca Beach Theatre.

National Geographic
Smart City
-Newcastle[1]

1 National Geographic Smart Cities 2017.

visitnewcastle.com.au
visitcentralcoast.com.au
visitlakemac.com.au

7 **Cheap eats** – Newcastle and the Central Coast have a heap of hidden foodie gems consisting of every cuisine imaginable. Whether it's a super fresh Banh mi roll, a juicy burger or the perfect schnitzel, there's something to suit whatever mood you're in and whatever's in your wallet.
Tip: you might want to invest in the local Entertainment Book for deals to save some extra cash.

8 **Ocean baths and pools** – if beaches aren't your thing or the surf's a bit wild, join the locals at The Entrance, Newcastle or Merewether Ocean baths or the stunning Bogey Hole for a relaxing dip with a difference.

9 **Road trip** – if you're in Newcastle, jump in the car and motor to the Central Coast, where you'll find our sister campus located in Ourimbah. Don't miss the chance to visit the pretty towns of Avoca, Terrigal and Long Jetty, where you'll find more boutique shopping and golden beaches to explore. The Hunter Valley is renowned wine country, so if you're in the mood for a tasting, head out and hop from cellar door to cellar door.
Tip: Audrey Wilkinson vineyard has one of the most spectacular views in the valley.

10 **Market-mania** – browse the stalls and grab some grub at artisanal markets like the Avoca Beachside or Olive Tree Markets. Sample some great local produce at the farmers market on Sunday mornings at the Broadmeadow Showground or Gosford City Farmers Markets. Or, if you prefer to sleep in, visit one of the many cafés lining Terrigal Esplanade, Beaumont or Darby Street – they've carefully selected only the best local produce and coffee for you.

© Image copyright the Olive Tree Market, Newcastle's largest and longest running Art, Design and Street food community market.

Student life

Newcastle campus, Callaghan

While your education should be the primary focus during your time at the University of Newcastle, finding the right study/life balance is also important.

Learn more about life at uni

Festivals and events

No matter which campus you study at, there's always something happening during the semester. Take part in study workshops, get involved in health and fitness programs, attend presentations from international scholars, or simply kick back and enjoy watching a movie by moonlight.

Clubs and societies

University of Newcastle Students' Association (UNSA) is home to more than 120 clubs, societies and social groups. From cheerleading to arm wrestling, chess, and plenty more – there's something for everyone. Our campuses are buzzing with social events throughout the year. Enjoy Autonomy Party and Orientation, band competitions, live music, 'stress less' activities, or snag yourself a sausage at free weekly lunches.

Cafés and live music

Whether you're looking for a good coffee to kick-start your day, a bite to eat at lunch or a place to relax in between classes, we've got you covered with a wide range of cafés, food outlets and bars across all our campuses. Plus, you don't have to venture too far to catch some of the world's biggest musicians and bands. Chances are you'll find a gig at Callaghan's Bar on the Hill, one of the many venues close to the Newcastle City campus or further down the coast at The Beery in Terrigal.

Watch Monique's video and see what it's really like to be a uni student.

Staying active

NUsport At The Forum, University (Callaghan), and Harbourside (Newcastle City) offer state-of-the-art health and fitness facilities. You'll find the Hunter Region's premier 50m indoor heated swimming pool, extensive group fitness options and a range of strength and cardio equipment. Indoor courts cater for casual hoops and structured social sport competitions all year. Join one of many sporting clubs or compete in the representative inter-university competition, UniSport Nationals, or apply for support as an elite athlete. Also located at NUsport at The Forum University (Callaghan) is a café and physiotherapy clinic.

NUsport At The Forum (Ourimbah) Pop Up Gym offers fitness equipment and small group fitness programs.

theforum.org.au

There are plenty of outdoor spaces with sporting fields, an outdoor gym and fitness circuit, shared paths and dedicated fitness trails on campus.

Our Ourimbah campus also offers a gym and covered outdoor recreation area – providing a great place for students to be active and engaged all year round.

Getting around

Access via train is available for both Callaghan (Warabrook station) and Central Coast (Ourimbah or Gosford station) campuses and if you're studying at our Newcastle City campus, the Newcastle Light Rail's Civic stop is right at our doorstep.

Beautiful bike paths make riding around campus fun, and our bike hubs at Callaghan and Newcastle City campuses offer showers and secure storage.

A free shuttle bus loops around Callaghan campus to get you to and from class and runs between our Callaghan and Newcastle City campuses every 30 minutes during semester. A shuttle bus runs in the morning and afternoon between Ourimbah and Gosford campus.

An after hours, on-call security shuttle is also available at Callaghan and Ourimbah campuses. The shuttle can take you back to your car, to Warabrook or Ourimbah train stations and surrounding suburbs near Callaghan.

Student support

We provide support for students from every background including students under the age of 18, LGBTQIA+ students, Indigenous students and international students. You'll have access to:

- Academic support
- Peer study support
- Health support
- Counselling
- Religious support
- Career services
- Peer mentoring
- AccessAbility

Learn more about student support

Services on hand

We offer a number of additional services across our campuses to make student life easier, including:

- 24/7 University libraries
- Medical centre and pharmacy
- Post office
- Retailers
- The Shop (University merchandise)
- Childcare
- Counselling
- Cafés and bars

Learn more about the services available on each campus

Accommodation

Newcastle campus, Callaghan

While the thought of moving away from your home town to study might seem daunting, we're here to make this transition as easy as possible. We offer students secure, affordable and comfortable accommodation while studying. Whether it's a self-contained studio you're after or a ten-share apartment, we have plenty of options.

Learn more about living on campus

2019 Excellence in Customer Service

Asia-Pacific Student Accommodation Association

Living on campus

If you want to meet lifelong friends, get involved in social activities, and enjoy countless amenities at your fingertips, on-campus accommodation might be for you.

There are a range of facilities and living environments available to suit all students – including those living with disability – at our Callaghan and Ourimbah campuses.

Accommodation options include private or shared rooms and amenities, fully-catered, semi-catered or self-catered living. You'll have access to 24/7 security, a range of facilities, support and wellbeing services, academic support, a dedicated Health and Wellbeing Coordinator and our award-winning ResLife Program.

Where can I live?

With nine different residences to choose from across our Callaghan and Ourimbah campuses, you're sure to find the right fit.

Your accommodation costs cover a number of facilities and services including around-the-clock security, internet access, two swimming pools, a large communal kitchen, laundry facilities and common rooms, featuring televisions, table tennis and a foosball table.

2017
Housing Operation of the Year Award

Asia-Pacific Student Accommodation Association

Establishing Aboriginal and/or Torres Strait Islander Status within the University

Aboriginal and/or Torres Strait Islander students will receive guaranteed entry to accommodation on campus upon completion of an accommodation application*. Access to guaranteed accommodation for new Australian Aboriginal and/or Torres Strait Islander residents is based on the completion of the Establishing Aboriginality and/or Torres Strait Islander Status Procedure.

*Terms and conditions apply.

Entry options

You do have options when it comes to getting into uni. You can apply for early entry via our Early Entry Program (see page 24), gain adjustment points for a selection rank or use other options like past study or work experience to get into the degree of your choice. Check online for eligibility requirements as these do change from time to time.

Learn more about getting into uni

5-star rating

for social equity[1]

Get in early

Schools Recommendation Scheme (SRS)

This is an early offer pathway for Year 12 applicants based on Year 11 results and recommendations or ratings submitted by your high school. We have expanded this scheme so that applicants can be considered for any degree, except for the Bachelor of Midwifery and the Bachelor of Medical Science and Doctor of Medicine.

Use your HSC results

Year 12 Subject Spotlight

Gain entry to an undergraduate degree based on your performance – If you have performed well in HSC English and other HSC subjects related to the degree you wish to study. This option is based on individual subject results.

HSC results and your ATAR

If you're completing or have recently completed your HSC or equivalent, you may receive an Australian Tertiary Admission Rank (ATAR), which can be used to enter university. An ATAR is a number between 0 and 99.95 that ranks how you performed in the HSC compared to other students.


Central Coast campus, Ourimbah

1 The Good Universities Guide 2022.

Gain points for a selection rank

We use selection ranks to determine eligibility for degree programs. Your selection rank (SR) is a combination of your ATAR plus any eligible adjustment points, up to a maximum of 12 points.

Year 12 Adjustment

Gain up to four adjustment points based on individual HSC subject results.

Educational Access

To increase equity in higher education, students who have previously experienced significant educational disadvantage can gain up to four adjustment points.

Leaders, Athletes and Performers

Exceptional athletes, performers, artists and leaders with proven experience can gain up to four adjustment points.

Regional and Rural Students

You may be awarded five adjustment points if you completed the HSC at a regional or rural school located in selected postcodes.

TAFE Guaranteed Entry and Credit

We guarantee entry into many of our undergraduate programs to people who have completed a TAFE Certificate IV, Diploma, or Advanced Diploma* through the TAFE Guaranteed Entry program.

You might be eligible for credit from Diploma-level and above qualifications to put towards your degree – this means shorter study time and a faster start to your new career.

In addition, a completed TAFE Certificate III qualification gives you an estimated equivalent ATAR of 67 for competitive entry.

Other options

Special Tertiary Admissions Test

If you are over 18 and not a current Year 12 student, this aptitude test can be used to provide you a new selection rank for entry into some of our degree programs.

Aboriginal and Torres Strait Islander Admission

This program helps Aboriginal and Torres Strait Islander applicants gain entry into our degrees. Make sure you indicate that you are Aboriginal or Torres Strait Islander on your UAC application. You can access advice and support to help with your application and selection interviews.

Have you studied before?

You can be considered for admission into an undergraduate degree based on:

- your performance in past HSC exams or equivalent, or partially completed higher education studies in Australia or equivalent overseas qualifications
- TAFE or other qualifications – Certificate III (limited programs), IV or higher
- post-secondary professional qualifications or professional/vocational experience
- performance in alternative entry or Pathways programs like Open Foundation or Yapug
- Australian Defence Force (ADF) personnel qualifications and experience.

Credit transfer

Your past qualifications can be used to apply for a credit transfer, especially if they are related to the area you wish to study. You may be granted credit for up to half of your degree program.

There are also several courses or programs that help prepare you or can give you a pathway into university (see the next page for more details).

* Please note that completed TAFE qualifications must be AQF level IV (Certificate IV), AQF level V (Diploma), or AQF level VI (Advanced Diploma) to be eligible for guaranteed entry.

Admission schemes and adjustments are subject to change. Refer to website for up-to-date information.

Early Entry Program

Learn more about early entry

Feeling overwhelmed about the HSC? Our new Early Entry Program means you can receive an offer to the University of Newcastle before the HSC. Apply for FREE, and we'll connect you with a mentor who can answer your questions, help you prepare for the HSC, and help you settle into uni.

Early Entry Program benefits include:

- HSC study support to help you achieve the best results from year 12
- Free preparation courses to make sure you get the most out of uni
- Invitation to VIP events throughout the year
- Invitation to our student leadership program

Newcastle campus, Callaghan

Pathways to education

Learn more about pathways

At the University of Newcastle, we believe that a university education should be accessible to anyone who wants to learn, no matter what age or life stage you're at. That's why we have engaged over 60,000 students in our pathway programs since 1974. Regardless of your background, circumstances or abilities, there is a pathway into university for you.

Pathways	Undergraduate	Postgraduate
Pathway programs offer direct entry into undergraduate programs upon completion. You are also guaranteed entry into selected undergraduate programs when you complete a pathway program.	Undergraduate programs offer qualifications that can enhance your career outcomes.	Postgraduate programs typically follow completion of an undergraduate program. These programs offer further qualifications and can lead to high level and specialised career outcomes.
• Open Foundation • Yapug • Diplomas	• Bachelors	• Masters • Doctorates

Open Foundation

This FREE pathway is for you if you aren't able to get into the degree of your choice directly or it has been a while since you've last studied. Regardless of your circumstances, Open Foundation offers a supported and guaranteed pathway into the first year of selected undergraduate degrees at the University of Newcastle.

"Open Foundation gave me a good introduction to academic study and gave me confidence that even though it's sometimes a challenge and hard work, I can get a degree!"

Tashi
Bachelor of Renewable Energy Engineering

Yapug

This FREE pathway program is for you if you are an Indigenous student who wants to prepare for or gain entry into university, learning through culture. You'll be supported by Indigenous staff to help you get into the first year of your degree of choice, including a pathway into Medicine.

Diplomas

If you are looking for a more supported start to your studies or would like to upskill for your career, a diploma is for you. On completion, this fee-paying pathway provides you with a diploma qualification, guaranteed entry into selected undergraduate degrees and up to 80 units of credit into programs from the same study area. You will also gain access to additional support that will help you adjust to your studies.

NUPrep Bridging and Refresher Courses

These FREE short courses are a great way to prepare for a pathway or undergraduate program at the University of Newcastle. NUPrep courses focus on core topics within academic skills, maths or science. Plus, if you choose to study a combination of NUPrep courses, you will have access to workshops that will help you bridge any gaps in your knowledge and skills. You can enrol in these short courses before you apply to uni to get a taste of uni study.

We're the largest provider of alternate pathways in Australia[1]

1 Department of Education Selected Higher Education Statistics – 2020 Student Data.

How to apply

Learn more about applying

Applying to study at the University of Newcastle is an easy process.

Before you start your application, you'll need to have information on hand:

- If you have recently left school, you will have a Unique Student Identifier (USI). You can obtain one at usi.gov.au/students/get-a-usi.
- If you have not recently left school, you can use your UAC number and PIN.

1. Choose the degree you want to study

Firstly, choose the degree you'd like to study most. To find a degree that interests you, head to our website to view all our degrees at newcastle.edu.au/degrees.

Not quite sure what you'd like to study? Our degree comparison tool will help you compare degrees and decide. Check it out at newcastle.edu.au/degrees/compare.

Some degrees have special requirements for entry, check the degree pages for details.

2. Apply through UAC

Applications for undergraduate degrees are submitted online through UAC at uac.edu.au/future-applicants/how-to-apply-for-uni.

You can select up to five degrees to add to your UAC preferences list. You can change the order of your preferences during each offer round by logging in to UAC.

The first degree in your preferences list should be the degree you want to study most. Preferences two to five are your back-up options, so choose degrees that are similar, have a lower selection rank, or consider adding in an alternate entry pathway such as a Diploma or Open Foundation.

If you are interested in receiving an early offer, we have introduced a new Early Entry Program. Visit newcastle.edu.au/early for more information. You can also apply for the Schools Recommendation Scheme (SRS) through the SRS application in UAC.

Remember to check the UAC website (uac.edu.au) for key dates to ensure you apply on time.

3. Accept your offer

You'll get an email from us outlining your offer and how to accept it. When you receive an offer, you'll have 7 days to accept, so make sure you are checking your emails. For semester one (February 2024), early offers can be made from September and the last round of offers will be made in February 2024.

Scholarships

You might be bursting with new ideas, passion, potential, and dedication, but without support, attending university can sometimes seem impossible. Scholarship programs at the University of Newcastle have been designed to provide this support and give you the opportunity to develop your talent and explore your potential.

Discover scholarship opportunities

The Ma & Morley Scholarship Program

The Ma & Morley Scholarship Program aims to inspire, educate and cultivate the next generation of globally aware and socially conscious Australian leaders – and help them change the world.

The Program was established through a generous US$20 million philanthropic commitment by the Jack Ma Foundation to honour the life-changing and enduring friendship between the successful Chinese entrepreneur Jack Ma and respected Novocastrian Ken Morley.

Each year we offer 30 Ma & Morley Scholarships – 20 for new students commencing their undergraduate degree programs – with half allocated to students who have completed one of our pathway programs – and an additional 10 scholarships for continuing students.

There are three categories of scholarships for new students:
- Educational disadvantage
- Indigenous background
- Academic excellence

Ma & Morley Scholars receive:
- up to $75,000 in financial assistance#
- values-based leadership program
- lifelong friendships and bonds
- cultural immersion experience*

Learn more about the Ma & Morley Scholarshop program

Find a scholarship that fits you

Each year, more than $3.5 million in scholarships is awarded to students. Our scholarship programs align to the University's values of excellence, equity, sustainability and engagement and are designed to recognise achievement and support enthusiastic and dedicated students.

Many of our scholarships have been created as a result of generous philanthropic donations to the University, from individuals and organisations who share our belief that everyone with talent and dedication deserves the chance to pursue their dreams.

We have hundreds of scholarship programs with over 1,000 individual scholarships on offer, including:
- scholarships for academic excellence
- support for individuals facing financial hardship and educational disadvantage
- scholarships for Aboriginal and Torres Strait Islander students
- scholarships for developing community leaders
- scholarships for students demonstrating innovative thinking and driving sustainable initiatives in industry
- opportunities to travel, perform, play sport, relocate, or gain global experience.

financial assistance applies to new students commencing
* domestic or international travel subject to global limitations

Uni speak

Some key terms explained

Starting your university journey can sometimes feel overwhelming. This directory defines some useful concepts to help you along the way.

Assumed knowledge and recommended studies

Assumed knowledge relates to things you should have studied before starting your degree. Classes will be taught on the assumption that you have a certain level of knowledge when you begin. Recommended studies are directly related to a particular degree and it's strongly suggested that you have undertaken the listed subjects as the course will be taught on the basis that you understand these subjects. The subjects listed under Assumed knowledge and Recommended studies are HSC courses. Equivalent TAFE, interstate, registered training provider or international qualifications are also accepted.

Bridging and refresher courses

If you're looking to get a head start on your degree or refresh your knowledge on key subject areas, we strongly recommend completing a University of Newcastle Prep bridging and refresher course prior to starting your degree. The courses are free and are available both online and on campus.

newcastle.edu.au/uonprep

College

An organisational unit with responsibility for academic programs, often with a number of sub-units called Schools. All degrees will be owned by a particular College of the University.

Combined degrees

A combined degree means you study two degrees at once. You will then graduate with two qualifications in less time.

Financial assistance

Whatever your background and financial status, we have support systems available to help with the costs involved in studying, including scholarships and emergency loans. You also might be eligible for Australian Government assistance with HECS-HELP loans and income support.

newcastle.edu.au/financial-assistance

Learning formats

- **Blended Learning:** enables you to master course content independently through a variety of online learning activities and then attend active workshops to engage with materials on a deeper level and actively work with course materials.
- **Laboratories:** gives you a chance to practise and experiment with what you are learning.
- **Lectures:** provide the theory component of your area of study in an interactive and engaged environment.
- **Tutorials:** small classes run by tutors where students have the opportunity to explore and ask questions.
- **Workshops:** active classes that give you a chance to practise what you are studying in an engaged environment.
- **Captured Lectures (through UONCapture):** provide slides and audio recordings of your lectures to allow you to listen back and review lecture materials in your own time.

Majors and minors

Some degrees allow you to major or specialise in a particular group of courses. This focuses your area of study and ensures you are suitably qualified for jobs in your preferred field. Some degrees also give you the opportunity to complete a double major which is two specialty areas. A minor is a specialised area of study without the depth of a major.

Mid-year

You can apply to start selected degrees in second semester commencing in July. Mid-year applications are submitted through UAC.

Preferences

You can nominate five preferences in your UAC application. List your preferences in order of the course you'd like to study most, rather than the selection rank. Your dream degree should always be at the top of your preference list.

Qualification

- **Bachelor degree:** the university level qualification for entry into many professions.
- **Diploma:** a program of study requiring 80 units to be completed.
- **Doctorate:** the highest postgraduate achievement an individual can earn and recognises a significant original contribution to a field of knowledge.
- **Higher Degree by Research (HDR):** is a postgraduate university degree involving a unique supervised research project. These degrees are either a Masters of Philosophy or a Doctoral degree (either Professional Doctorate or a PhD).
- **Honours:** some degrees allow you to get an additional qualification that helps boost your chances of employment. Embedded honours is included in many four year degrees or honours can be studied as a separate additional year for three year degrees.
- **Masters:** a qualification granted at the postgraduate level to individuals who have successfully demonstrated a high level of expertise in a specific field of study or area of professional practice.
- **Postgraduate degree:** any qualification being at the level of Graduate Certificate or above.
- **Undergraduate degree:** any qualification up to and including the level of a Bachelor Honours degree.

Selection rank (SR)

This score was the lowest selection rank of any school leaver to receive an offer in Semester 1, 2022 based on ATAR plus adjustment points. You may meet the score listed using your ATAR alone, or your selection rank (your ATAR plus adjustment points).

Please note, some degrees also have additional entry requirements or criteria (such as an audition), so check for these requirements in the degree listing for your chosen program. If criteria in addition to ATAR is considered, the minimum ATAR will be listed as 'A+C' or ATAR + Criteria, and median ATAR will be listed as 'N/A'. If ATAR is not considered, the minimum and median ATAR will be listed as 'N/A'.

Semester

This is the academic teaching period, which is approximately 13 weeks in duration. There are two semesters in a year.

Student support

We have a range of services available to help you, such as:

- **Peer Assisted Study Sessions (PASS):** one-hour weekly review sessions.
- **Academic Learning Support:** for tips, workshops and resources from our Learning Advisers.
- **Careers and Student Development:** for access to valuable work experience opportunities and employment help.

newcastle.edu.au/support

Universities Admissions Centre (UAC)

UAC is the central office that receives and processes applications for admission to most undergraduate degrees and diploma courses at participating tertiary institutions.

uac.edu.au

work-integrated learning (WIL)

Work experiences built into most degrees where you can apply your classroom theory to a real-world setting.

Study options

With over 100 undergraduate degrees and even more unique study options to follow, you're sure to find an exciting and rewarding career that's right for you. Choose a degree that excites and motivates you, or combine two and forge your own path.

In this section you'll find all the key information you need to know for each degree – from entry requirements, to what you'll study, practical experience and potential Career opportunities.

Find a degree that's right for you

Architecture, Building and Construction

Our architecture, building and construction degrees will empower you to think differently, to imagine new ways to live, work, and experience the world – and bring these ideas to life. Gain the skills needed to design and construct quality environments, from houses to high-rises, galleries, modern factories or freeways. Learn how to emphasise social, economic and environmental sustainability, solve problems and build a better world.

Discover Architecture, Building and Construction degrees

91.7%

of undergraduate Architecture and Building graduates found employment within four months[1]

Top 150

in the world – Architecture and Built Environment[2]

#1

in NSW for full-time employment and median salary (Undergraduate Architecture)[3]

Degree options

Bachelor of Construction Management (Building) (Honours)
Bachelor of Design (Architecture)
Diploma in Built Environment

Also consider

Bachelor of Civil Engineering (Honours)
Bachelor of Development Studies
Bachelor of Science
Bachelor of Surveying

1 Graduate Outcomes Survey 2019-2021.
2 QS World University Rankings by Subject 2022.
3 The Good Universities Guide 2021.

Construction management is currently one of the most in-demand jobs in Australia. And with the industry continuing to boom, Mohsin saw this as his opportunity to build a rewarding career for himself – enrolling in the Bachelor of Construction Management at the University of Newcastle.

Further drawing him in were the different pathways he can take in the construction field when he graduates as he didn't want to be isolated into just one thing. So far, he can already see how this degree, and the support he's getting, will set him up for the future.

"My study experience has been so exciting and supportive. This really is due to the time and dedication of the lecturers and teaching staff at the University who are always there to answer any questions I have or provide advice if I need it.

I love being able to spend time in between lectures studying and working on assignments surrounded by all the friends I've made throughout the degree. And can't wait to graduate!"

Mohsin

Bachelor of Construction Management (Building) (Honours)

Check out Mohsin's story

"From the moment I started studying I have felt so supported, and I've met so many friendly faces. Of all the amazing study experiences on offer, I am most excited to have the opportunity to study overseas this year."

Patrick

Bachelor of Construction Management (Building) (Honours)

"The courses here have laid solid paths for my further research into shifting modes of generative responses to culturally-diverse architectural problems."

Jackson

Bachelor of Design (Architecture)

Bachelor of

Construction Management (Building) (Honours)

2022 Selection Rank	Duration
65.00 | Median 71.35	4 yrs FT / 10 yrs PT

UAC code	Location
482450	Newcastle – Callaghan
482460	Online

Recommended studies English (Standard or Advanced) and Mathematics (Standard or Advanced)

The construction industry in Australia is booming. Construction management graduates work in a whole range of leadership roles in the construction industry. Working both on and off site, they schedule and coordinate the design and construction process, including selecting, hiring and supervising trade contractors, as well as the budget and legal aspects of the project. The Bachelor of Construction Management (Building) (Honours) has a high level of professional recognition both in Australia and overseas. Our flexible delivery options make it easy for you to study by distance or work in the industry while completing your degree. All students will complete 16 weeks of industrial experience prior to graduating.

What you will study

Our courses directly reflect the needs of industry, across the full spectrum of construction management roles. Learn critical workplace skills in:

- Building information modelling (BIM)
- Building surveying
- Communication
- Construction ecology
- Construction procurement and tendering
- Construction technology
- Contract administration
- Economics
- Environmentally sustainable development
- Facilities management
- Finance
- Health and safety
- Law
- Management
- Project Management

Practical experience

All University of Newcastle construction management students complete 16 weeks of industrial experience during their degree. This can be completed in one block or as shorter placements of no less than two weeks. Through your work placement you'll build vital professional networks and put your learning into practice.

Career opportunities

Employment opportunities for construction managers are excellent. 91.7% of our construction management graduates secure a job within four months of graduating. Our graduates work for major construction companies like LendLease, Brookfield Multiplex, Theiss, John Holland, Hansen Yunken, Leighton Contractors, Laing O'Rourke.

Take your pick from a range of job possibilities. As a University of Newcastle graduate you can oversee projects from behind the scenes, take on a specialist position, or you might prefer the satisfaction of on-site management and supervision. Typical roles include:

- Building Surveyor/Certifier
- Construction Manager
- Contract Administrator
- Contracts Manager
- Estimator
- Facilities Manager
- Project Manager
- Property Developer
- Quantity Surveyor

Professional recognition

This degree is fully endorsed by five professional bodies in Australia and internationally. It is accredited by:

- Australian Institute of Building (AIB)
- Australian Institute of Building Surveyors (AIBS)
- Australian Institute of Quantity Surveyors (AIQS)
- Chartered Institute of Building (CIOB)
- Royal Institution of Chartered Surveyors (RICS)

These accreditations reflect the direct relationship between what you'll learn in the degree and the requirements of various sectors of the construction industry.

See the website for more information about this degree

Bachelor of

Design (Architecture)

2023 Selection Rank	Duration
65.00 | Median 74.80	3 yrs FT / 8 yrs PT

UAC code	Location
482500	Newcastle – Callaghan

Recommended studies English (Standard or Advanced) and History (Ancient or Modern), plus at least one of Visual Arts, Design and Tachnology or Industrial Technology

Architecture is more than just art and technology. At the University of Newcastle, our Bachelor of Design (Architecture) students are challenged to explore their potential as agents for change. Our graduates don't just design and shape the physical spaces of our cities and buildings – they use architecture to stimulate the places where we live and work, engage the community and improve our world. Learn in the state's newest creative innovation centre – Newcastle. Through live projects, you'll develop design principles that emphasise social, economic and environmental sustainability and become a consultative problem solver. This program is nationally accredited by the NSW Architects Registration Board, Commonwealth Association of Architects, and Architects Accreditation Council of Australia.

What you will study

At the University of Newcastle more than half of your design courses are dedicated to architecture studio work, working on a range of practical and 'live' projects with organisations like NSW Urban Growth, Renew Newcastle, and Healthabitat.

You'll learn about:

- Communication in the built environment
- Construction and detailing of buildings
- Construction technology and ecology principles
- Digital and parametric design processes
- Making conceptual and realistic models in our workshop
- Sustainable design practices
- The architectural site as landscape

Practical experience

Students will undertake 140 hours of work-integrated learning placement. Engage in live projects through hands-on work and public exhibitions. Collaborate with organisations to improve the housing and health of disadvantaged people in remote Australia and developing countries. Our graduates also exhibit their work publicly at our graduate exhibition, an opportunity to showcase work to industry and the local community.

Career opportunities

Some typical careers include:

- Architectural Technician
- Designer
- Drafter
- Infrastructure Planner
- Project Manager
- Town Planner

Broaden your career options and qualify as a professional architect with a Master of Architecture (two additional years of study).

Professional recognition

The Bachelor of Design (Architecture) is a pre-professional qualification, nationally accredited by:

- NSW Architects Registration Board
- Commonwealth Association of Architects
- Architects Accreditation Council of Australia

This program is also internationally recognised through:

- Canberra and Washington Accord Agreements
- Board of Architects Malaysia (LAM)
- Bologna Process for European Higher Education

Students are required to complete the Master of Architecture in order to be eligible for registration by the Architects Accreditation Council of Australia, the Board of Architects Malaysia (LAM), Australian Institute of Architects, Royal Institute of British Architects, and the State Boards of Architects.

See the website for more information about this degree

Diploma in

Built Environment

2023 Selection Rank	Duration
50.00 | Median 54.90	1 yr FT / 4 yrs PT
UAC code	**Location**
489834	Newcastle – Callaghan

From sustainable buildings to climate resilient cities and everything in between, they all start from the ground up. And so does our Diploma in Built Environment. You will build the foundational skills needed to excel in a range of roles in the construction industry. Gain a preliminary understanding of the construction and design industries to help start your path to a rewarding career in the sector.

What you will study

The Diploma in Built Environment has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, that will provide you with a taste of discipline areas including construction technology, ecology, communication, digital communication, construction law, building codes and compliance, studio work and visual communication. The Diploma in Built Environment offers a guaranteed entry pathway into the Bachelor of Construction Management (Building) (Honours) or the Bachelor of Design (Architecture).

Study areas:

- Architecture
- Built Environment
- Construction Management
- Design

Why study with us

- **Guaranteed degree entry –** Complete the Diploma in Built Environment and receive a guaranteed entry into the Bachelor of Construction Management (Building) (Honours), or the Bachelor of Design (Architecture).
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different built environment disciplines with our directed course list.

Career opportunities

Professionals in Built Environment can explore careers including:

- Architect
- Architectural Technician
- Building Surveyor/Certifier
- Construction Manager
- Contracts Manager
- Project Manager
- Property Developer
- Quantity Surveyor

See the website for more information about this diploma

Business and Management

Business and Management students are trailblazers – whether it's taking a vision and turning it into a successful business, or improving existing business practices around the world. Our degrees are more dynamic, flexible and industry-engaged than ever before. Gain a broad understanding of Australian and global business environments, or become an expert in the world's fiscal systems and complex economic landscapes. With real-world, industry experience embedded into all our degrees, you'll graduate with the skills and professional connections needed to kick-start your career in this fast-growing field.

Discover Business and Management degrees

91.1%

of undergraduate Business and Management graduates found employment within four months[1]

Top 200

in the world – Business Administration[2]

AACSB ACCREDITED

AACSB accredited business school[3]

EQUIS ACCREDITED

EQUIS accredited business school[3]

Degree options

Bachelor of Business
Bachelor of Business Analytics
Bachelor of Commerce
Bachelor of Innovation and Entrepreneurship Combined
Bachelor of Tourism, Hospitality and Events
Diploma in Business

Also consider

Bachelor of Arts
Bachelor of Media and Communication
Bachelor of Laws (Honours) Combined

1 Graduate Outcomes Survey 2019-2021.
2 ShanghaiRanking's Global Ranking of Academic Subjects 2022.
3 The University of Newcastle's Newcastle Business School is in the top 3 business schools in NSW, accredited by both EQUIS and AACSB.

After spending some time in the workforce, Kayla realised that she would need to have formal qualifications behind her in order to advance her career. With a passion for social media marketing, she set her sights on the Bachelor of Business at the University of Newcastle, majoring in marketing.

"So far, my experience has been both rewarding and challenging. I've had the opportunity to explore a variety of subjects, from management to marketing and even electives outside of my degree.

I've met some amazing people and with the guidance of the lecturers and my peers, they've helped me grow as an individual in ways I never thought possible.

There are challenges that come with university life, but my support network help to keep me on track so that I can strive for excellence in all aspects of my studies. All in all, it has been a great experience."

Kayla
Bachelor of Business

Check out Kayla's story

"The content I have learned throughout my degree has expanded my knowledge and understanding of many concepts in the world of business – which I believe will be valuable as I pursue my career. Studying at university has also provided me with the amazing opportunity to connect with like-minded individuals, which has helped to build valuable networks for me to carry into the future."

Alex
Bachelor of Business/Bachelor of Commerce

Bachelor of
Business

2023 Selection Rank
62.00 | Median 73.95

Duration
3 yrs FT / 8 yrs PT

UAC code
482200
482210

Location
Newcastle – City
Central Coast – Ourimbah

Recommended studies
Mathematics (Standard or Advanced)

The Bachelor of Business gives students a broad understanding of Australian and global business environments. Students graduate with practical skills and attributes that are highly valued by employers in a range of disciplines including human resource management, leadership, tourism/event management, entrepreneurship and innovation, politics, marketing, industrial relations and international business. Our business graduates go on to exciting, stimulating and lucrative careers in the private, government and not-for-profit sectors in Australia and internationally.

What you will study

Choose to major in one or two of the following areas:

- Entrepreneurship and Innovation
- Human Resource Management
- International Business
- Leadership and Management
- Marketing
- Politics and International Relations
- Tourism and Event Management

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs. Take advantage of internships and project-based learning, including:

- Student exchange opportunities
- Local and international work experiences in China, Fiji and Kenya through short-term mobility and international immersion tours

Career opportunities

91.1% of graduates are employed full time within 4 months of graduating.

Some typical positions include:

- Business Development Manager
- Digital Marketing Analyst
- Employee Relations Manager
- Human Resources Officer
- International Affairs Officer
- Marketing Coordinator
- Product and Brand Manager
- Tourism and Events Agent

Professional recognition

The Marketing major is accredited by the Australian Marketing Institute (AMI).

The Human Resource Management major is accredited by the Australian Human Resource Institute (AHRI).

The University of Newcastle's Newcastle Business School is in the top 3 business schools in NSW, accredited by both EQUIS and AACSB.

Combine this degree with

- Bachelor of Business Analytics
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Civil Engineering (Honours)
- Bachelor of Commerce
- Bachelor of Development Studies
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Environmental Science and Management
- Bachelor of Food Science and Human Nutrition
- Bachelor of Information Technology
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Laws (Honours) Combined
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Psychological Science
- Bachelor of Surveying (Honours)

See the website for more information about this degree

Bachelor of
Business Analytics

2023 Selection Rank
62.00 | Median 64.15

Duration
3 yrs FT / 8 yrs PT

UAC code
484871

Location
Newcastle – City

Recommended studies
Business Studies and Mathematics (Standard or Advanced)

In recent years, interest and industry demand for business analytics and artificial intelligence specialists has increased significantly. The quality, quantity and diversity of data available has never been greater, with many organisations relying on the expertise of business analysts to inform decision-making and strategic direction as well as the expertise of substituting extra human involvements in workplace, by machines. As a result, career opportunities in this area have boomed. You'll develop the smart solution design and data skills needed to implement and oversee data-driven and smart business operations. The bachelor degree will prepare you to utilise artificial intelligence methodologies to analyse and transform existing business process into digitally automated smart process and data into useful decision-support information, and determine trends, futures, and strategic directions or outcomes for functioning business operations proactively. Skills and knowledge will be providing support in continuously meeting future market demands.

What you will study

When you study a Bachelor of Business Analytics, you'll explore the key concepts, benefits, and challenges of big data analytics and data visualisation. You'll apply statistical and machine learning-based predictive models in analytics to various business contexts and learn how to effectively communicate business data to stakeholders.

Core areas of focus include:

- Collecting, managing business data
- Effectively communicating using visualisation of business data
- Forming inferences and predictions from business data
- Making optimal and robust decisions from business data

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs. Take advantage of internships and project-based learning, including:

- Student exchange opportunities Professional recognition
- Local and international work experiences in China, Fiji and Kenya through short-term mobility and international immersion tours

Career opportunities

Business analytics has emerged in recent years as a powerful and useful capability for organisations in competitive markets. With career opportunities for business analytics graduates are predicted to increase by more than 20% over the next five years. With a Bachelor of Business Analytics, you could pursue a career as a:

- Business Analyst
- Financial Analyst
- Financial Manager
- General and Operations Manager
- Management Analyst
- Market Research Analyst
- Marketing Specialist

Once you graduate, some additional roles might include:

- Big Data Specialist
- Business Data Engineers
- Data Analyst
- Information Security Analyst
- Organisational Development Specialist
- Process Automation Specialist

Professional recognition

The University of Newcastle's Newcastle Business School is in the top 3 business schools in NSW, accredited by both EQUIS and AACSB.

Combine this degree with

- Bachelor of Business
- Bachelor of Commerce

See the website for more information about this degree

Bachelor of

Commerce

2023 Selection Rank	Duration
62.00 | Median 75.84	3 yrs FT / 8 yrs PT

UAC code	Location
482300	Newcastle – City
482310	Central Coast – Ourimbah

The Bachelor of Commerce is a practical and flexible degree, with core courses designed to give you a thorough overview of business and commerce environments, before you specialise in Accounting, Economics, or Finance. When you study a commerce degree at the University of Newcastle, you will be equipped to make a smooth transition from the classroom to the boardroom, by acquiring skills that employers value. Through courses in your chosen major, you will gain insight into the interplay between the financial, legal, political and economic systems and how these factors influence the contemporary business environment, both in Australian and global contexts.

What you will study

You may choose to study one or two majors from the following:

- Accounting
- Economics
- Finance

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs.

While studying, take advantage of:

- Short-term work placements
- Student exchange opportunities
- International immersion tours

Career opportunities

91.1% of graduates are employed full time within 4 months of graduating.

If you find working with numbers stimulating, you could have a lucrative career in a variety of roles, including:

- Accountant
- Auditor
- Economic Analyst
- Financial Analyst
- Investment Banker
- Mortgage Broker
- Policy Analyst
- Risk Analyst
- Stockbroker

Professional recognition

Our Bachelor of Commerce Accounting major is designed to provide accreditation with the major professional bodies in accounting, including CPA Australia, CA Australia and New Zealand, Association of Chartered Certified Accountants (ACCA) and Association of International Accountants (AIA). The University of Newcastle's Newcastle Business School is in the top 3 business schools in NSW, accredited by both EQUIS and AACSB.

Combine this degree with

- Bachelor of Business
- Bachelor of Business Analytics
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Laws (Honours) Combined

See the website for more information about this degree

Bachelor of

Innovation and Entrepreneurship Combined

Location	Duration
Newcastle – Callaghan and City campus	4 yrs FT / 10 yrs PT

Combined with	2022 Selection Rank	UAC code
Bachelor of Arts	62.00 | Median 77.40	482030
Bachelor of Business	62.00 | Median 73.93	483060
Bachelor of Commerce	62.00 | Median 64.10	483070
Bachelor of Laws (Honours) Combined*	85.00 | Median 92.90	483100
Bachelor of Science	65.00 | Median N/A	484040

Recommended studies Mathematics (Standard or Advanced)

This combined program prepares students with the academic knowledge and practical experience needed to become highly competitive in rapidly changing regional, national and global economies and communities. The program embeds business, innovation and entrepreneurial knowledge into a combined degree program with practical experience.

What you will study

This degree gives you the flexibility to select an area of study suited to your interests and combine it with teaching and mentoring in entrepreneurship and innovative thinking.

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs.

Career opportunities

Innovation and entrepreneurship are at the forefront of economic growth both domestically and internationally. Graduates with entrepreneurial thinking and the ability to devise innovative solutions to common problems are increasingly sought after. You may develop your own ideas into successful new ventures and have the opportunity to create your own career.

Some typical positions include:

- Account Manager
- Business Development Officer
- Business Owner
- Consultant for government, organisations and communities
- Entrepreneur
- Innovation Manager
- Inventor
- Startup Founder

Professional recognition

The University of Newcastle's Newcastle Business School is in the top 3 business schools in NSW, accredited by both EQUIS and AACSB. When you study the Bachelor of Innovation and Entrepreneurship Combined, in conjunction with another degree, some individual majors within these degrees may be accredited. Please see individual degree listings for further detail.

Combine this degree with

- Bachelor of Arts
- Bachelor of Business
- Bachelor of Commerce
- Bachelor of Laws (Honours) Combined
- Bachelor of Science

See the website for more information about each combined degree

* Bachelor of Laws (Honours) Combined degree duration 5 yrs FT

Bachelor of

Tourism, Hospitality and Events

2023 Selection Rank	Duration
62.00 | Median 72.88	3 yrs FT / 8 yrs PT

UAC code	Location
484400	Newcastle – City
484410	Central Coast – Ourimbah

The Bachelor of Tourism, Hospitality and Events provides students with a cutting edge learning experience that is both academically rigorous and industry relevant. Through our research led teaching, students graduate with the business acumen and employability skills to enjoy a vibrant and successful career in tourism, hospitality and events management and leadership. Students can choose to study a stand-alone degree at the University of Newcastle (Bachelor of Tourism, Hospitality and Events). Students can also combine their university degree with an Advanced Diploma at TAFE NSW, allowing them to graduate with both an Advanced Diploma and a Bachelor of Tourism, Hospitality and Events, in just three years.

What you will study

Our students study how the tourism, hospitality and events sectors are responding to global challenges, such as, operating responsibly and sustainably, managing the impacts of climate change, and harnessing innovation through digital technologies. Students also study tourism, hospitality, and events challenges at a business-level, including how to effectively lead and manage and people, profits and processes.

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs. Take advantage of internships and project-based learning, including:

- Student exchange opportunities Professional recognition
- Local and international work experiences in China, Fiji and Kenya through short-term mobility and international immersion tours

Career opportunities

With 91.1% of our undergraduate Business and Management graduates securing full-time employment within four months of graduating, this program offers strong career outcomes, such as:

Destination Management and Marketing:
- Cultural Development Officer
- Sustainable Tourism Strategist
- Tourism Manager

Event and Festival Management:
- Events Manager
- Festival Manager
- Sponsorship and Fundraising Coordinator

Accommodation:
- Casino Manager
- Hotel and Resort Manager
- Sales Manager

Hospitality and Customer Service:
- Museum Visitor Services Coordinator
- Operations Manager
- Restaurant Manager

Professional recognition

The University of Newcastle's Newcastle Business School is in the top 3 business schools in NSW, accredited by both EQUIS and AACSB.

See the website for more information about this degree

Diploma in

Business

2023 Selection Rank	Duration
50.00 | Median 53.05	1 yr FT / 4 yrs PT

UAC code	Location
489819	Newcastle – City
489820	Central Coast – Ourimbah

With practical leadership skills in the world of business, you'll be challenged to become a business trailblazer. Find your special interests or develop diverse skills across a broad range of subjects including accounting, finance, law, marketing, business decision making, business information systems and entrepreneurship. Whether you want to work in business locally, globally, or even start a business of your own, the Diploma in Business will help you get there.

What you will study

The Diploma in Business has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas within our Bachelor of Business, Bachelor of Business Analytics or Bachelor of Commerce degrees.

Study areas:

- Accounting and Finance
- Business
- Business Analytics
- Business and Entrepreneurship
- Commerce
- Economics
- Events
- Human Resources Management
- Industrial Relations
- Management
- Marketing
- Tourism

Why study with us?

- **Guaranteed degree entry –** Complete the Diploma in Business and receive a guaranteed entry into the Bachelor of Business, the Bachelor of Business Analytics or the Bachelor of Commerce.
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different business disciplines with our directed course list.

Career opportunities

The business sector is large and diverse with employment opportunities in business, management, tourism, marketing, accounting and finance, commerce, entrepreneurship, events and international relations.

See the website for more information about this diploma

Combined degrees

Bachelor of Arts/Bachelor of Innovation and Entrepreneurship
Broaden your understanding of how innovation and entrepreneurship is applied within a wider context. This combination will complement your innovative mind-set with an enhanced understanding of how society functions.

Bachelor of Business/Bachelor of Business Analytics
Improve your understanding of business functions in organisations and develop the skills needed to implement and oversee data-driven business decisions. Develop a competitive advantage in a rapidly evolving employment market.

Bachelor of Business/Bachelor of Commerce
Improve your understanding of important areas relevant to business, including economics, finance and accounting. Develop critical thinking, analytical problem solving, task management and strong communication skills.

Bachelor of Business/Bachelor of Innovation and Entrepreneurship
Learn to think distinctively, creatively and critically in a business environment. Develop the skills required to grow entrepreneurial ideas into successful new ventures, or work within existing businesses in an innovative way.

Bachelor of Business/Bachelor of Laws (Honours)
Experience in law is a valuable asset within the business sector. Develop your skills and forge a career as a corporate or in-house lawyer.

Bachelor of Chemical Engineering (Honours)/Bachelor of Business
Complement your technical skills with business acumen and entrepreneurship. Learn how to manage people and finances, propose new business opportunities and market your product.

Bachelor of Civil Engineering (Honours)/Bachelor of Business
Broaden your understanding of the Australian and global business environments. This combination ensures you will have specialist in-depth business knowledge while possessing a strong understanding of the world of civil engineering.

Bachelor of Commerce/Bachelor of Business Analytics
Improve your knowledge and skills across commerce, while developing the skills needed to implement and oversee data-driven business decisions. Develop a competitive advantage in a rapidly evolving employment market.

Bachelor of Commerce/ Bachelor of Innovation and Entrepreneurship
Improve your knowledge and skills across commerce, innovation and entrepreneurship, and gain practical experience in diverse industries, to become extremely employable in both the public and private sectors.

Bachelor of Commerce/Bachelor of Laws (Honours)
Combine your background in commerce with a degree in law to improve your knowledge of important legislation that is relevant to accounting, finance and economics.

Bachelor of Development Studies/Bachelor of Business
This combined program builds on interdisciplinary understandings of uneven development and business practice. It also encompasses a practical angle, with students learning from case studies and real business situations in Australia and internationally.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Business
Complement your technical skills with management skills, business acumen, entrepreneurship and the ability to commercialise engineering innovations. Prepare yourself for a leadership role with this unique package of capabilities.

Bachelor of Environmental Science and Management/ Bachelor of Business
Broaden your understanding of human impacts on the environment and apply your business skills and experience to develop solutions to global environmental challenges.

Bachelor of Food Science and Human Nutrition/Bachelor of Business
This combination allows students to undertake and match business skills with their interest in food and nutritional sciences – a synergy that will maximise graduate employability.

Bachelor of Information Technology/Bachelor of Business
If you are technically savvy, a business degree combined with information technology is a highly valued asset for careers in business technology and design, business analysis, and in managing large and complex software systems critical for big corporations and government.

Bachelor of Innovation and Entrepreneurship/ Bachelor of Laws (Honours)
This combination is for people who are interested in turning big ideas into new ventures, with the added understanding of the surrounding legal environment.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
Complement your strong understanding of business affairs with the ability to commercialise engineering innovations, with this unique package of capabilities.

Bachelor of Psychological Science/Bachelor of Business
Gain a firm understanding of the Australian and global business environments while understanding how and why people behave and make decisions.

Bachelor of Science/Bachelor of Innovation and Entrepreneurship
If you're passionate about building your knowledge and discovering new things, this combination will allow you to apply your scientific skills to the business arena. Using the latest scientific developments and advancements, you can create innovative futures that influence markets, communities and societies.

Bachelor of Surveying (Honours)/Bachelor of Business
A business degree gives you a firm understanding of the Australian and global business environments. This combination ensures you will have specialist business knowledge while possessing a strong understanding of surveying.

Computing, Maths and Technology

The computing, maths and technology industries are at the cutting edge of new thinking, and are central to the way we work, learn, communicate, socialise and entertain ourselves. They're industries that require critical, creative thinkers. Our degrees teach you the skills required to develop technology and systems to aid advancements in almost any area you can think of. You could work for a big global corporation like Google or Apple, or build your own business and become one of the world's most innovative entrepreneurs.

Discover Computing, Maths and Technology degrees

81.5%

of undergraduate Computing and Information Systems graduates found full time employment within four months[1]

Top 200

in the world – Computer Science[2]

83.4%

rate our learning facilities and resources positively (Science and Mathematics)[3]

Degree options

Bachelor of Computer Science
Bachelor of Data Science
Bachelor of Information Technology
Bachelor of Mathematics
Bachelor of Mathematics (Advanced)
Diploma in Data Analytics
Diploma in Information Technology

Also consider

Bachelor of Computer Systems Engineering (Honours)
Bachelor of Electrical and Electronic Engineering (Honours)
Bachelor of Mechanical Engineering (Honours)
Bachelor of Mechatronics Engineering (Honours)
Bachelor of Science
Bachelor of Software Engineerings (Honours)

Australian Government | Career Pathways Powered by APSJobs

Data and digital students are encouraged to apply for the Data and Digital Cadet Programs, delivered on campus in collaboration with the Australia Public Service (APS).

1 Graduate Outcomes Survey 2019-2021.
2 Times Higher Education World University Rankings by Subject 2023.
3 Student Experience Survey 2020-2021.

As a LEGO™ fan, Jenny has always been interested in putting things together and solving all kinds of puzzles. She compares finding solutions to programming problems the same as solving these puzzles. Since finding this passion for programming and love for everything to do with computers, she knew the best way to enhance her knowledge was through a Bachelor of Computer Science at the University of Newcastle.

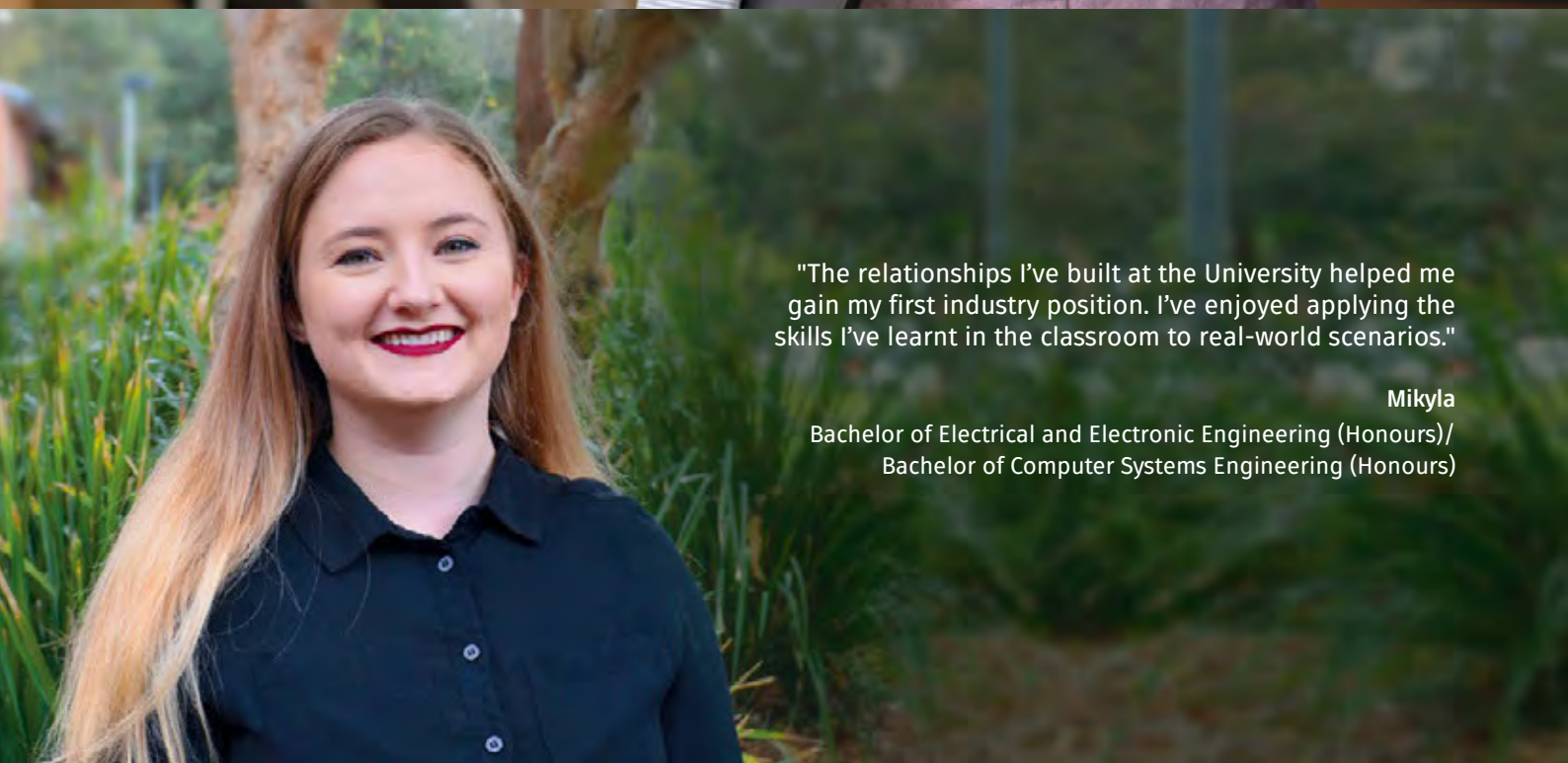
Through practical learning and hands-on opportunities, Jenny is fast learning what a career in the field will be like.

"Working with KPMG, I had the opportunity to gain insight into how real businesses work. This not only empowers me to have confidence in my future career but also with the appropriate work experience to succeed."

Jenny (Ni)

Bachelor of Computer Science

Check out Jenny's story



"The relationships I've built at the University helped me gain my first industry position. I've enjoyed applying the skills I've learnt in the classroom to real-world scenarios."

Mikyla

Bachelor of Electrical and Electronic Engineering (Honours)/
Bachelor of Computer Systems Engineering (Honours)

Bachelor of
Computer Science

2023 Selection Rank	Duration
65.00 | Median 71.00	3 yrs FT / 8 yrs PT

UAC code	Location
482400	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 of above)
Recommended studies	Mathematics (Extension 1)

Computer scientists work on challenging programming tasks, developing new software technologies and sophisticated new online systems. Computer science is fundamental to many everyday technologies like mobile phones, autonomous systems, social media, online shopping, computer games and virtual reality. The Bachelor of Computer Science produces innovative and resourceful computer scientists who are experts at complex problem solving. They work across fields such as artificial intelligence, robotics, computer graphics, digital forensics, health informatics, web development, cryptography and data security. The Bachelor of Computer Science allows degree customisation, with majors available in computer systems and robotics, software development, and cyber security. Students gain hands-on practical experience with 200 hours of work-integrated learning in their third year of study. This program is accredited by the Australia Computer Society.

What you will study
The Bachelor of Computer Science focuses on the design and implementation of software as well as the development of new techniques and methodologies. You will study a variety of courses to develop skills in the following areas:

- Algorithmic problem solving
- Artificial intelligence
- Computer graphics
- Computer networks and distributed systems
- Data security
- Databases and security
- Distributed and internet computing
- Hardware
- Programming and software development
- Robotics
- Web development

Choose to specialise in one of the following majors:

- Computer Systems and Robotics
- Cyber Security
- Software Development

Practical experience
Our computer science laboratories offer cutting edge facilities, providing the perfect practical environment to apply your knowledge and test your skills. Students will undertake 240-280 hours of project-based work and 140 hours of work-integrated learning placement.

Career opportunities
Computer science is a high-growth industry with a myriad of career opportunities. Opportunities exist all over the world in almost every industry from IT to business, education, health, manufacturing, defence and many more.

Some typical positions include:

- Application Development Manager
- Business Intelligence Director
- Computer Software Program Manager
- Cyber Security Advisor
- Data Scientist
- Games Developer
- Security Architect
- Software Architect

Professional recognition
The Bachelor of Computer Science is accredited by the Australian Computer Society.

Combine this degree with
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Data Science

See the website for more information about this degree

Bachelor of
Data Science

2023 Selection Rank	Duration
70.00 | Median 86.00	3 yrs FT / 8 yrs PT

UAC code	Location
489791	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 of above)

Data scientists create and use a variety of tools and frameworks to examine patterns in data. These findings are then communicated to inform decision making and business strategies across a broad range of industries. From community health and tracking activity in social networks, to understanding our environment and climate change, data scientists are increasingly in demand. The Bachelor of Data Science will equip you with core skills in data science including data wrangling and visualisation, statistical modelling, programming, data security, and applied artificial intelligence including machine intelligence. You'll also have the opportunity to apply these skills by engaging in current workplace projects alongside industry partners of the University, giving you a competitive edge when you're entering the workforce.

What you will study
Build upon foundational knowledge in data science and increase your employability by studying a variety of elective pathway courses including:

- Biomedical Data Analysis
- Data Forensics
- Environmental and Climate Analysis
- Exercise and Sports Analytics
- Psychology
- Social Media Analytics
- Social Media Analytics

Key areas of study include:

- Algorithms
- Business analysis
- Data mining and big data
- Data structures, wrangling and visualisation
- Machine intelligence and deep learning
- Network and data security
- Statistics and time series analysis

Practical experience
You will graduate with professional skills, knowledge and real-world experience sought after by the industry. While studying, take advantage of:

- Up to 280 hours of work placement
- Access to cutting edge facilities such as our computer science laboratories

You'll also use the latest data analysis and programming software such as Python and R which are broadly applied across a variety of industries.

Career opportunities
If you want to work in a high-growth field where you can apply your data science expertise to almost any industry, you could have a rewarding career in a variety of roles, including:

- Analyst
- Artificial Intelligence and Machine Learning Specialist
- Big Data Specialist
- Consultancy
- Data Analyst and Scientist
- Digital Transformation Specialist
- Entrepreneur
- Information Security Analyst
- Internet of Things Specialist
- Programmer
- Software Architect
- Statistician
- Web Developer
- Web Manager

These are all emerging roles which have been identified as being in high demand in Australia according to the World Economic Forum's The Future of Jobs Report 2020.

Professional recognition
Accreditation is currently being sought from Statistical Society Australia (SSA) and Australian Computer Society (ACS).

Combine this degree with
- Bachelor of Computer Science
- Bachelor of Mathematics

See the website for more information about this degree

Bachelor of

Information Technology

2023 Selection Rank	Duration
65.00 | Median 73.08	3 yrs FT / 8 yrs PT

UAC code	Location
483000	Newcastle – Callaghan

Assumed knowledge	English (Standard or Advanced)

Information Technology (IT) delivers the skills needed to succeed in an interconnected society. Information technology is all about developing, building and maintaining software systems to meet the challenges faced by communities, and seizing the opportunities that new technology creates. The Bachelor of Information Technology provides work-integrated learning opportunities, creating job-ready graduates. Tailor your studies to complete one of two industry-aligned majors, 'ICT Developer' or 'ICT Professional'. This program is professionally accredited by the Australia Computer Society and graduates are eligible to apply for membership.

What you will study

You will study courses that develop your skills in programming, AI, cyber security, and cloud computing as well as completing one of our industry-aligned majors:

- ICT Developer major: focuses on learning the skills needed to develop new systems and apps.
- ICT Professional major: focuses on the skills needed to secure, integrate, deploy, and manage ICT technologies.

Plus, you'll develop skills in:

- Business analysis
- Computing fundamentals
- Databases and information management
- Foundations of information systems
- Human computer interaction
- Programming
- Project management
- Systems analysis and design
- Systems and network administration
- Web technologies

Practical experience

Students will undertake 240-280 hours of project-based work and 140 hours of work-integrated learning placement. This allows students to gain hands-on experience in the industry, creating graduates who are prepared for immediate and productive employment.

In your third year you will work with a team of students to complete a major IT project, with the opportunity to find and develop a project with an industry partner. This project typically involves:

- Costing and evaluation
- Database design and implementation
- Interface design
- Programming
- Project planning
- Reporting and presenting

Career opportunities

IT graduates work in a wide range of industries including cloud architecture, software, mobile and application development, animation, data analytics, health, education, business, UX and interaction design.

For those who complete our ICT Developer major, you may work as:

- Games Designer
- Mobile App Designer
- Software Developer
- Web Developer

For those who complete our ICT Professional major, you may work as:

- ICT Advisor
- Infrastructure Business Analyst
- IT Analyst
- IT Project Manager

Professional recognition

This program has been professionally accredited by the Australian Computer Society. Graduates of the Bachelor of Information Technology will be eligible to apply for membership with the Australian Computer Society.

Combine this degree with

- Bachelor of Business

See the website for more information about this degree

Bachelor of

Mathematics

2023 Selection Rank	Duration
75.00 | Median N/A	3 yrs FT / 8 yrs PT

UAC code	Location
483200	Newcastle – Callaghan

Assumed knowledge	Mathematics (Standard)
Recommended studies	Mathematics (Extension 1)

The Bachelor of Mathematics attracts the very best problem solvers – those who analyse things critically and are eager to make technological discoveries. The computing, maths and technology industries are at the forefront of new thinking, and are central to the way we work, learn, communicate, socialise and entertain ourselves. Apply for the Merit Pathway program and participate in activities that enrich your learning and social experience on campus. Through this degree, you might mathematically model the way diseases spread to find a cure for malaria or search for algorithms to speed up computations. You'll use your skills in technology, creativity and logic to push the boundaries and make a difference.

What you will study

Focus your studies and choose from one of three mathematics majors, where you will study specialised courses in:

- Pure and Applied Mathematics
- Statistics
- Studies in Mathematics and Statistics

Two co-majors (only to be taken as a second major) are also now available, where you can choose to apply your specialised knowledge into new and emerging fields:

- Climate Science
- Data Science

Practical experience

When you study mathematics at The University of Newcastle, you will complement your theoretical studies with tutorials and laboratories that help you apply what you learn to practical situations. Our two Advanced Collaborative Environment spaces are equipped with computers, cameras, projectors, microphones and SmartBoards to enable you to connect with other groups in real time without delays.

Additionally, Bachelor of Mathematics students can enrol in international study which offers you the opportunity to undertake an international placement to expand the theoretical knowledge and skills developed in this program and apply knowledge and skills in an external and international context.

Career opportunities

Graduates from the Bachelor of Mathematics will find their degree can take them to varied and groundbreaking places. Graduates work in a wide range of fields including communications, international finance and the futures market, the energy sector, and medical and health research.

Some typical roles are:

- Climate Science Modeller
- Data Mining Analyst
- Economic/Social Statistician
- Investment Banker/Stockbroker
- Meteorologist
- Sports Statistician

Professional recognition

Students may join the Australian Mathematical Society (AustMS) as student members before they graduate. Graduates with a Statistics major are eligible for Graduate Accreditation on becoming a member of the Statistical Society of Australia.

Combine this degree with

- Bachelor of Chemical Engineering (Honours)
- Bachelor of Civil Engineering (Honours)
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Data Science
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science

See the website for more information about this degree

Bachelor of

Mathematics (Advanced)

2023 Selection Rank	Duration
90.00 | Median N/A	3 yrs FT / 8 yrs PT

UAC code	Location
483205	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced)
Recommended studies	Mathematics (Extension 1)

Are you a problem solver? A critical thinker? Maybe you want to use your analytical skills to make innovative technological discoveries? The Bachelor of Mathematics (Advanced) will prepare you for a career far beyond the norm and outside the conventional roles of a mathematician. Join a community of high achieving peers and build on your previous knowledge in logic, mathematical modelling, experimental design and data analysis. Enhance your learning with close mentoring from leading academics and a diverse network of professionals. Apply for the Merit Pathway program and participate in activities that enrich your learning and social experience on campus. The Bachelor of Mathematics (Advanced) is accredited by the Statistical Society of Australia (Statistics major) and students can join the Australian Mathematical Society before they complete the program. Graduates can work in a wide range of fields including communications, international finance and the futures market, the energy sector, or even medical and health research.

What you will study

This degree provides you with the essential skills and knowledge necessary for a career in your chosen field. Choose from one of the following majors:

- Pure and Applied Mathematics
- Statistics
- Studies in Mathematics and Statistics

Studying a mathematics major allows you to enrol in a range of courses, learn advanced mathematical skills and a strong understanding of key principles in your chosen speciality.

Practical experience

When you study maths at the University of Newcastle, you will complement your theoretical studies with tutorials and laboratories that help you apply what you learn to practical situations, as well as enjoying work-integrated learning opportunities.

Additionally, Bachelor of Mathematics (Advanced) students can enrol in international study which offers you the opportunity to undertake an international placement to expand the theoretical knowledge and skills developed in this program and apply knowledge and skills in an external and international context.

Career opportunities

Graduates from the Bachelor of Mathematics (Advanced) will find their degree can take them to varied and groundbreaking places. Graduates work in a wide range of fields including communications, international finance and the futures market, the energy sector, and medical and health research.

Some typical roles are:

- Algorithm Designer
- Data Mining Analyst
- Economic/Social Statistician
- Investment Banker/Stockbroker
- Meteorologist
- Risk or Strategy Analyst
- Sports Statistician

Professional recognition

Students may join the Australian Mathematical Society (AustMS) as student members before they graduate. Graduates with a Statistics major are eligible for Graduate Accreditation on becoming a member of the Statistical Society of Australia.

See the website for more information about this degree

Diploma in

Data Analytics

2023 Selection Rank	Duration
50.00 | Median N/A	1 yr FT / 4 yrs PT

UAC code	Location
489935	Newcastle – Callaghan

There is a growing volume and value of data in business. As a result, there is a demand for workers skilled in analysing, transforming and extracting value from this data. If you have an interest in understanding the fundamentals of data analysis, the Diploma in Data Analytics is for you.

What you will study

The Diploma in Data Analytics has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas including programming, mathematics, statistics, business decision making, data structures and cybersecurity fundamentals.

Study areas:

- Business analysis
- Data science
- Data structures, wrangling and visualisation
- Information technology
- Statistics and time series analysis

Why study with us

- **An alternate pathway –** Our diplomas are a great way to get into an undergraduate degree if you didn't quite meet the entry requirements, or would like to explore a study area further. Benefit from the additional support through foundational courses and from our team to help you adjust better to first-year undergraduate courses included in the diploma.
- **Guaranteed degree entry –** Complete the Diploma in Data Analytics and receive a guaranteed entry into the Bachelor of Data Science, Bachelor of Business Analytics or a Bachelor of Information Technology.
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra cost –** For any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different data analytics disciplines with our directed course list.
- **Gain a qualification in a fast-growing space –** Jump in and learn skills that will become invaluable in your career.

Career opportunities

Data Analytics professionals work in a large range of areas including:

- Analyst
- Artificial Intelligence and Machine Learning Specialist
- Big Data Specialist
- Consultant
- Data Analyst and Scientist
- Data Scientist
- Digital Transformation Specialist
- Entrepreneur
- Information Security Analyst
- Internet of Things Specialist
- Programmer
- Software Architect
- Statistician
- Web Developer
- Web Manager

See the website for more information about this diploma

Diploma in

Information Technology

2023 Selection Rank	Duration
50.00 | Median 55.40	1 yr FT / 4 yrs PT

UAC code	Location
489832	Newcastle – Callaghan

If you have an interest in developing technology, using critical thinking and redefining the way we work, learn, communicate, socialise and entertain ourselves, then the Diploma in Information Technology is for you. Information technology (IT) is all about learning to develop, build and maintain software technology systems to meet the challenges faced by business and society. You can develop skills around data science to study collecting and analysing data for use connected devices, systems and networks to bring meaning to complex patterns. Or you could develop software for a variety of electronic devices.

What you will study

The Diploma in Information Technology has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas including programming, cybersecurity, data structures, business decision making and mathematics. The Diploma in Information Technology offers a guaranteed entry pathway into the Bachelor of Information Technology, the Bachelor of Data Science, or the Bachelor of Software Engineering.

Study areas:

- Data Science
- Information Technology
- Software Engineering

Why study with us

- **An alternate pathway –** Our diplomas are a great way to get into an undergraduate degree if you didn't quite meet the entry requirements, or would like to explore a study area further. Benefit from the additional support through foundational courses and from our team to help you adjust better to first-year undergraduate courses included in the diploma.
- **Guaranteed degree entry –** Complete the Diploma and receive a guaranteed entry into the Bachelor of Data Science or a Bachelor of Information Technology.
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra cost –** For any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different data analytics disciplines with our directed course list.

Career opportunities

IT Professionals work in a large range of areas including:

- Applications Developer
- Cryptographer
- Data Scientist
- E-Learning Developer
- Enterprise Architect
- IT Project Manager
- Logistics Officer
- Mathematical modeller
- Mobile App Designer
- Software Development Manager
- Systems Analyst
- Technical Software Consultant

See the website for more information about this diploma

Combined degrees

Bachelor of Chemical Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Civil Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Computer Systems Engineering (Honours)/ Bachelor of Computer Science

Develop complementary hardware and software skills. Open up opportunities in fields such as artificial intelligence, robotics, computer graphics, digital forensics, bioinformatics, web development and data security. You'll be the ultimate well-rounded computing professional.

Bachelor of Computer Systems Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Data Science/Bachelor of Computer Science

The Bachelor of Data Science/Bachelor of Computer Science produces innovative and resourceful computer scientists who are experts at data wrangling and visualisation, programming, data security, and complex problem solving.

Bachelor of Data Science/Bachelor of Mathematics

You will develop core skills and content in data science and mathematics including data wrangling and visualisation, optimisation, mathematical modelling, complex analysis, predictive analytics, programming, data security, and applied artificial intelligence including machine intelligence.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Information Technology/Bachelor of Business

Complement your technical skills with business acumen, entrepreneurism and the ability to commercialise IT innovations. Learn how to manage people and finances, propose new business opportunities and market your product. Prepare yourself for a leadership role with this unique package of capabilities.

Bachelor of Mathematics/Bachelor of Science

The Bachelor of Mathematics/Bachelor of Science combined program is for those who are interested in understanding the world around us and how it works. This degree is for those that are inspired to build new knowledge and discover new things.

Bachelor of Mechanical Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Mechatronics Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Creative Industries and Communication

Pursuing a career in creative industries and communication is a chance to bring your boldest ideas to life. You can tailor your degree to focus on an area you're passionate about such as digital content creation, animation, music, art, design, media, filmmaking, journalism, public relations and so much more. Collaborate with industry partners on real-life projects, from the production of music videos to art installations, and contribute to the new-gen thinking that will help define the 21st century.

Discover Creative Industries and Communication degrees

91.2%

of undergraduate Communications graduates found employment within four months[1]

86.8%

of undergraduate Communications students satisfied with facilities and learning resources[2]

Cutting-edge facilities

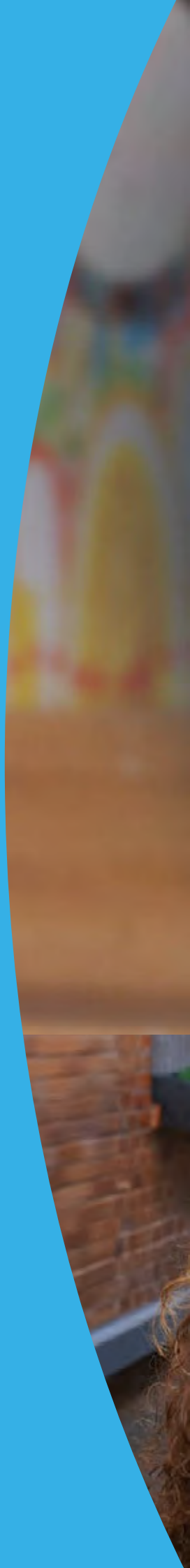
so you graduate work-ready

Degree options

Bachelor of Media and Communication
Bachelor of Music and Performing Arts
Bachelor of Visual Communication Design

Also consider

Bachelor of Arts
Bachelor of Business
Bachelor of Design (Architecture)
Bachelor of Information Technology



1 Graduate Outcomes Survey 2019-2021.
2 Student Experience Survey 2019-2020.

Peter always knew he wanted to work in the media industry, so studying a Bachelor of Communication was an easy decision to make. Heading into his second year of study, he's excited to explore all there is to learn about the field and pursue the career he's always wanted.

"I've had an amazing time studying at the University of Newcastle so far. At NUspace in the city, I can go to classes with tutors who are currently working in the industry, collaborate with peers who share a passion for news media and creative arts, and hang out afterwards at the scenic parks and beaches nearby.

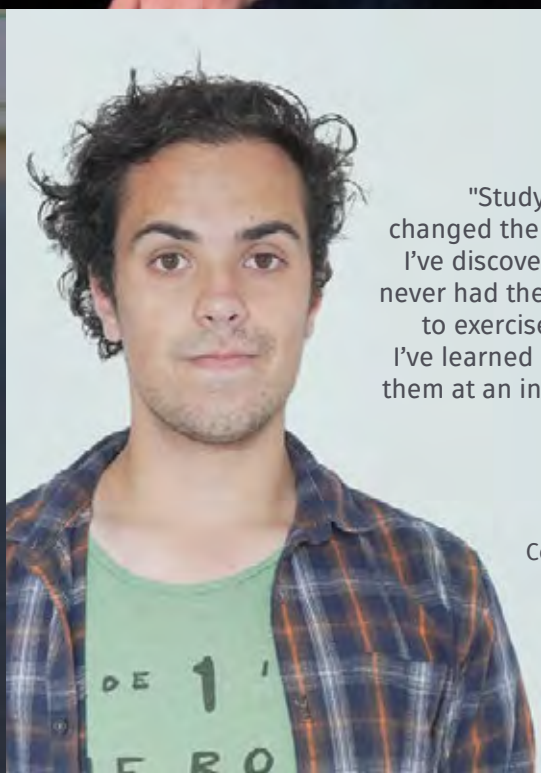
Throughout my courses, I've learned how to work with clients making commercials, how to write like a feature journalist and had engaging discussions about what's shaping our contemporary media landscape."

Peter
Bachelor of Media and Communication

Check out Peter's story

"I've loved my experience so far. From initially studying journalism, I've developed an interest in the creative industries, even producing an award-winning short film."

Brittany
Bachelor of Media and Communication



"Studying here has changed the way I create. I've discovered skills I've never had the opportunity to exercise before, and I've learned how to apply them at an industry level."

Sam
Bachelor of Media and Communication

Bachelor of

Media and Communication

2023 Selection Rank	Duration
62.00 | Median 73.93	3 yrs FT / 8 yrs PT

UAC code	Location
TBA	Newcastle – City
Assumed knowledge	English (Standard or Advanced)

When you study a Bachelor of Media and Communication, you'll develop cutting edge skills needed to produce groundbreaking, thought-provoking and engaging work in diverse media industries. With a range of course options, you'll learn to push your individual creative boundaries, while embracing the changing nature of today's complex communication landscape. Choose your major or areas of study and develop work-ready skills – from critical thinking and writing, to creating and producing content for television, film, documentaries, radio, print, gaming and digital media.

What you will study

The Bachelor of Media and Communication will provide you with a broad understanding of the discipline of communication and prepare you to work creatively and analytically in the communication and media industries.

You can specialise in one or two of the following majors:

- Media Production
- News Media
- Public Relations

Additional major options are available to study alongside your Bachelor of Media and Communication major. Choose from Animation and Interaction, Creative Arts or Graphic Design and Illustration.

Practical experience

The Bachelor of Media and Communication has been designed with embedded practical learning experiences throughout the degree and incorporates work placement or projects within the industry as a significant component of your specialist major. Students are invited to take advantage of our business partnership networks with NBN Television, The Newcastle Herald, ABC 1233, the University radio station 2NURFM, and internships with Channel 7 and Foxtel.

Career opportunities

Graduates can find employment in a variety of roles across many different types of organisations.

Some example jobs include:

- AR/VR Specialist
- Camera Operator
- Copywriter
- Digital Producer
- Director
- Editor
- Feature Writer
- Festival/Events Coordinator
- Film and Documentary Maker
- Film/Television Production Assistant
- Games Designer
- News and Specialist Reporters
- Radio Producer
- Scriptwriter
- Web Designer

Combine this degree with

- Bachelor of Developmental Studies
- Bachelor of Laws (Honours) Combined
- Bachelor of Psychological Science

See the website for more information about this degree

Bachelor of

Music and Performing Arts

2023 Selection Rank	Duration
N/A | Median 64.98	3 yrs FT / 8 yrs PT

UAC code	Location
489814	Newcastle – City
Assumed knowledge	Music 1 or demonstrated musical experience or qualification equivalent to Music 1 or AMEB (Grade 6 to 8 to pass)
Admission requirements	Audition and/or interview are required for this degree. See website for more information.

A career in music and performing arts offers an exciting future within the rapidly evolving creative arts industries. Enhance your skills, discover new opportunities, and fast track your creative career through practical and creative learning. Practitioners in the creative and performing arts industry need to be highly collaborative, combining a variety of technical skills in creative thinking, design, music, performance, production and writing. At the University of Newcastle, you'll learn from leading industry specialists and practitioners to develop your professional skills and networks as you transition into your career. Study the context of music and the creative and performing arts and their unique value to society at large. Our Bachelor of Music and Performing Arts degree prepares graduates to become performance artists, songwriters, composers, directors, producers, Scenographers theatre experience makers and teachers, enabling them to take on diverse professional roles across the creative industries.

What you will study

Your studies in our Music and Performing Arts degree will enable you to successfully navigate and build your career in the music and the performing arts industry. With flexible study options, you can tailor your degree by selecting one or two majors in Performance, Songwriting and Production, or the Performing Arts.

The most ideal combinations of majors that reflect industry creative practice for Music and Performing Arts Graduates are listed below:

Double Major Pathway B

- Performance + Songwriting and Production
- Performance + Performing Arts
- Songwriting and Production + Performing Arts

Double Major Pathway C

- Performance + Songwriting and Production
- Performance + Performing Arts
- Songwriting and Production + Performing Arts

Practical experience

When you study the Bachelor of Music and Performing Arts at the University of Newcastle, you will have the opportunity to refine your skills through regular performance opportunities via the University of Newcastle performance venues as well as other popular Newcastle venues. practical experiences will form an integral part of your studies, as such you'll have access to industry level facilities and resources.

Career opportunities

The following list provides some examples of positions available to graduates of a Bachelor of Music and Performing Arts. Some of these jobs will depend on the amount and level of study undertaken, level of experience, the combination of other majors and electives studied, while some may require further study.

- DJ/EDM Producer
- Drama Teacher
- Music Publisher
- Orchestra or Band Member
- Script Writer

Combine this degree with

- Bachelor of Arts

See the website for more information about this degree

Bachelor of
Visual Communication Design

2023 Selection Rank	Duration
62.00 | Median 79.20	3 yrs FT / 8 yrs PT

UAC code	Location
484650	Newcastle – City

Recommended studies At least one of Visual Arts, Textiles and Design, Design and Technology or Industrial Technology

Become a creative visual thinker with the Bachelor of Visual Communication Design. You'll sharpen your skills using our professional studios, labs and creative maker spaces while working with experts on real-world creative tasks or gaining vital industry experience. You'll graduate ready to be part of the dynamic and evolving creative industries with a portfolio that displays innovative visual thinking along with wide-ranging set of media skills. You'll be using your ideas to create the impossible, dream big and drive innovative change by tapping into visual and design training that will give you the edge in making and creating the art and media content of the future.

What you will study
Our core courses give you a strong foundation in the fundamentals of visual communication design while the majors enable you to focus on more specialised areas that inspire you.

You will have the option to major in one or two of following areas:

- Animation and Interaction
- Creative Arts
- Graphic Design and Illustration

Other major options are available alongside your Visual Communication Design major, such as Media Arts Production, Songwriting and Production and Public Relations.

Practical experience
This degree has hands-on experience with a wide range of design techniques in emerging and established technologies. You'll have full access to the very best design equipment, allowing you to graduate with an impressive portfolio of your own work. Throughout the program, students have the opportunity to complete work placements and take part in work-integrated learning (WIL) projects. International placements and exchanges are also available to expand your knowledge and skills in an international context.

Professional recognition
Upon graduation, students can seek accreditation independently with the Australian Graphic Design Association, Design Institute of Australia and Illustrators Institute of Australia.

Career opportunities
Throughout your studies you will have the chance to build industry connections which will help with securing a job after graduation in roles such as:

- Animator
- Artist
- Creative Director
- Graphic Designer
- Illustrator
- Interactive Media Designer/ Developer
- Motion Graphic Designer
- User Experience Designer
- Web Designer

See the website for more information about this degree

Creative Industries and Communications
Combined degrees

Bachelor of Media and Communication/ Bachelor of Development Studies
This combined option will let you develop the capabilities needed to construct and present clear and effective narratives and arguments across written, visual, oral and multimedia forms, allowing you to speak up and record the stories of those who need to be heard.

Bachelor of Media and Communication/ Bachelor of Laws (Honours)
Some of the most powerful and influential forces within our society are the media and communication technology. Combine this degree with Law and be at the forefront of constantly developing laws and regulations that impact the communication and media industries.

Bachelor of Media and Communication/ Bachelor of Psychological Science
Students who choose this combined option could research the influence of social media on human behaviour, while developing cutting edge skills needed to produce ground breaking, thought-provoking and engaging work across diverse media industries.

Bachelor of Music and Performing Arts/Bachelor of Arts
Broaden your understanding of how your potential as a musician can be applied within a wider context. This combination will complement your artistic mind-set with an enhanced understanding of how society functions.

Education

Great teachers can change lives and truly impact the communities in which they live. Through our education degrees, you'll learn more than just how to teach – you'll gain the skills needed to empower future generations and inspire young minds. A career in education is rewarding and diverse. With access to the latest technologies including SimTeach, SimSchool and a 360 degree fully immersive SimCave, in addition to real-life practical experience, you'll graduate with globally-transferable skills and qualifications.

Discover Education degrees

Top 150

in the world – Education[1]

94.1%

of undergraduate Education graduates found employment within four months[2]

Professional placement

opportunities available to every student

Degree options

Bachelor of Education (Early Childhood and Primary)
Bachelor of Education (Primary)
Bachelor of Education (Secondary)
Diploma in Education Studies

Also consider

Bachelor of Media and Communication
Diploma in Languages

1 QS World University Rankings by Subject 2022.
2 Graduate Outcomes Survey 2019-2021.

When first exploring her study options in teaching, Bella never would have imagined she'd be able to combine her interest in education with the history of ancient witchcraft practices. As it turns out, she very much can through the Bachelor of Education (Secondary) at the University of Newcastle.

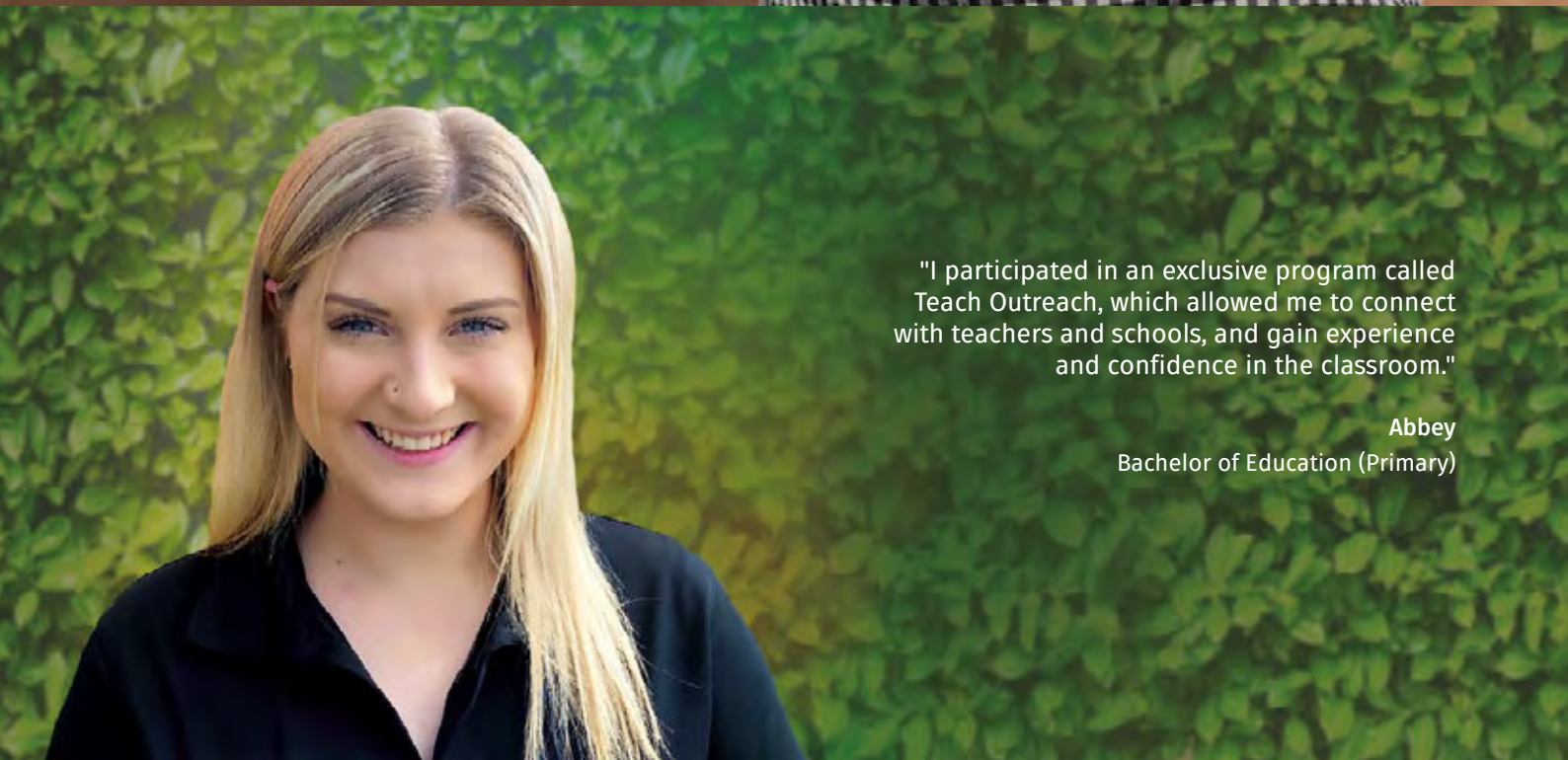
"Studying at the University of Newcastle has been an amazing journey full of new people, an immersive learning experience and lots of fun. I've made so many new friends from classes and clubs I've joined and found a supportive community of tutors and lectures along the way.

I chose two teaching areas and have loved the wide range of courses on offer. In addition, being on placement has opened my eyes to the possibilities after graduation."

Bella

Bachelor of Education (Secondary)

Check out Bella's story



"I participated in an exclusive program called Teach Outreach, which allowed me to connect with teachers and schools, and gain experience and confidence in the classroom."

Abbey

Bachelor of Education (Primary)

Bachelor of

Education (Early Childhood and Primary)

2023 Selection Rank	Duration
65.00 | Median 69.36	4 yrs FT / 10 yrs PT

UAC code	Location
484750	Newcastle – Callaghan
484760	Central Coast – Ourimbah
Assumed knowledge	English (Standard or Advanced) and Mathematics (Standard or Advanced)

Teachers and education professionals have the power to change lives and shape young minds. If a rewarding career working with children sounds like a dream, then the Bachelor of Education (Early Childhood and Primary) degree is for you. Graduates qualify to work across a wide age range:

- **Preschool and early childhood (birth – 5 years):** play a meaningful role in intellectual and social development during the crucial early years.
- **Primary school (kinder – year 6):** work across the full scale of children's intellectual, physical and social development.

Studying this degree prepares you for both teaching and non-teaching roles. Learn to work with families and children in various educational settings or play constructive roles in related industries such as policy development and research.

What you will study

You will study courses which develop core knowledge of the foundations of child development, schooling, teaching and specialist subjects and key learning areas.

Key areas of study include:

- Aboriginal education, policies and issues
- Behaviour management
- Children's learning and growth across the span of birth to 12 years
- Early childhood special education
- Ethics and professional codes of conduct
- Families and society
- Foundation of primary education curriculum and pedagogy in K-6
- Language and mathematical learning
- Programming and planning for children aged 0-5 years
- Psychology of learning and teaching

Practical experience

You will complete three professional experience placements across early childhood and primary school classrooms for a total of at least 90 days.

You can also take advantage of:

- **EdOutreach** – first-year community learning experiences
- **New Colombo Plan Mobility Program** – experience teaching in bilingual classrooms in Asia
- **SimTeach** – teach online avatars in a virtual classroom
- **Teach Outreach** – a volunteer placement program

This degree requires students to participate in placements in NSW Department of Education or other NSW schools or services. During placement, students will be subject to the policies and procedures of the placement facility. Students must meet all the Education Placement Requirements, including a NSW Working with Children clearance.

Career opportunities

Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of graduating.

Careers may include:

- Community Educator
- Curriculum Developer
- Early Childhood Centre Director
- Early Childhood Teacher
- Educational Researcher
- Primary School Teacher

Professional recognition

Accredited by the NSW Education Standards Authority (NESA) and by the Australian Children's Education and Care Quality Authority (ACECQA).

See the website for more information about this degree

Bachelor of

Education (Primary)

2023 Selection Rank	Duration
65.00 | Median 72.55	4 yrs FT / 10 yrs PT

UAC code	Location
484800	Newcastle – Callaghan
484810	Central Coast – Ourimbah
Assumed knowledge	English (Standard or Advanced) and Mathematics (Standard or Advanced)

A Bachelor of Education (Primary) leads to a rewarding career as a Primary School Teacher (kinder – year 6). Primary education is the critical period where children cultivate life-long skills, helping them to grow and transition into young adults. Students graduate with the skills, knowledge and influence to nurture capable, confident and well-adjusted individuals. The University of Newcastle Primary Education graduates enjoy diverse careers as specialist teachers, leaders and education professionals across related sectors in Australia and around the world.

What you will study

The Bachelor of Education (Primary) will develop your knowledge, confidence and skills through both theoretical and experience-based learning. You'll study a variety of courses in primary education, as well as specialist teaching areas.

Key study areas include:

- Behaviour management
- Foundations of primary education
- How to teach K-6 curriculum
- Language and literacy development
- Psychology of learning and teaching

To diversify your skills and enhance your job prospects, study courses in one of the following areas:

- Creative arts
- English
- Human society and its environment
- Mathematics
- Personal development, health and physical education
- Science and technology
- Special education

Practical experience

You will complete three professional experience placements totalling at least 90 days.

You can also take advantage of:

- **EdOutreach** – first-year community learning experiences
- **SimTeach** – teach online avatars in a virtual classroom
- **Teach Outreach** – a volunteer placement program

This degree requires students to participate in placements in NSW Department of Education or other NSW schools or services. During placement, students will be subject to the policies and procedures of the placement facility. Students must meet all the Education Placement Requirements, including a NSW Working with Children clearance.

Career opportunities

Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of graduating. Our graduates are qualified specialists who work in classrooms and various education settings. They are also industry leaders, researchers and professionals in a range of related industries in Australia and around the world.

Careers may include:

- Community Educator
- Curriculum Developer
- Education Policy Analyst
- Educational Materials Developer
- Primary School Teacher
- Special Education Teacher

Professional recognition

Accredited by the NSW Education Standards Authority (NESA).

See the website for more information about this degree

Bachelor of
Education (Secondary)

2023 Selection Rank	Duration
65.00 | Median 72.55	4 yrs FT / 10 yrs PT

UAC code	Location
484860	Newcastle – Callaghan
484870	Central Coast – Ourimbah

Assumed knowledge	English (Standard or Advanced) and Mathematics (Standard or Advanced)
Recommended studies	English (Standard or Advanced), Mathematics (Extension 1) (for Mathematics major) and study in the area of intended teaching area

Secondary teachers have the unique opportunity to nurture, teach and empower students at a critical period of their development. Learn how to inspire high school students to make the most of their education and excite their passions for the subjects you teach. Study a degree in secondary education, and you'll be at the forefront of tomorrow, helping to shape and enable future generations. Combine your passion for education with your chosen areas of interest – choose your teaching specialisations from a range of Teaching Areas. Gain in-depth knowledge, expertise, confidence, and the skills to be an exceptional teacher.

What you will study
Benefit from an integrated study approach to become a skilled, knowledgeable and innovative secondary school teacher, as well as a specialist in your chosen areas of expertise.

You will choose teaching areas from one or two of the following teaching areas:

- Health and Physical Education
- Humanities and Social Sciences
- Mathematics
- Science
- Technology

Plus there is also the opportunity to add:

- Special Education
- English as an Additional Language/Dialect
- Honours Educational Research

Practical experience
You will complete three professional experience placements for a total of at least 90 days. In some disciplines, additional work-integrated learning (WIL) courses are provided.

You can also take advantage of:

- **EdOutreach** – first-year community learning experiences
- **SimTeach** – teach online avatars in a virtual classroom
- **Teach Outreach** – a volunteer placement program

This degree requires students to participate in placements in NSW Department of Education or other NSW schools or services. During placement, students will be subject to the policies and procedures of the placement facility. Students must meet all the Education Placement Requirements, including a NSW Working with Children clearance.

Career opportunities
Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of graduating.

Careers may include:

- Community Educator
- Education Materials Developer
- Education Publication Writer or Editor
- Health and Fitness Trainer
- High School Teacher
- Special Education Teacher

Professional recognition
Accredited by the NSW Education Standards Authority (NESA).

See the website for more information about this degree

Diploma in
Education Studies

2023 Selection Rank	Duration
50.00 | Median 52.98	1 yr FT / 4 yrs PT

UAC code	Location
489825	Newcastle – Callaghan
489826	Central Coast – Ourimbah

Discover how you can make an impact in your community and empower the next generation. In the Diploma of Education Studies, you'll develop the knowledge, skills and dispositions necessary to aim for career in teaching. You'll come to understand the profession of teaching, engage with various styles of teaching (pedagogy) and assessment, and explore how educators develop creative abilities in children. You'll learn about historical and contemporary education systems and care, including elements of education curriculum, policy and practice both in Australia and globally. Undertake specialised study in key learning areas including English, PDHPE and HSIE. You'll also have the opportunity to meet the English and Maths level requirements needed to study an undergraduate degree.

What you will study
The Diploma in Education Studies has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas within our Education degrees. The Diploma in Education Studies offers a guaranteed entry pathway into the Bachelor of Education (Primary), the Bachelor of Education (Secondary) or the Bachelor of Education (Early Childhood and Primary).

Study areas:

- Early Childhood
- Education
- English
- HSIE
- PDHPE
- Primary Teaching
- Secondary Teaching
- Teaching

Why study with us
- **Guaranteed degree entry –** Complete the Diploma in Education Studies and receive a guaranteed entry into the Bachelor of Education (Primary and Early Childhood), the Bachelor of Education (Primary), or the Bachelor of Education (Secondary).
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different education disciplines with our directed course list.

Career opportunities
Careers in education can be quite diverse and go beyond becoming a teacher at various levels of education. Additional roles include community educator, educational consulting, curriculum development, policy analysts, research, materials developer, evaluators or administrators

See the website for more information about this diploma

Travel, accommodation and related expenses for professional placements are the responsibility of students. Applicants should be aware of this requirement when applying for entry to programs.

Engineering

The role of an engineer is ever-changing. From building complex computer systems and influencing the infrastructure we use every day, to finding new ways to harness energy or even designing prosthetic limbs to help amputees – engineers play a critical role in overcoming the challenges our world faces. Challenges like food and water security, climate change, data protection and the increasing impact growing populations have on society. As a global leader in engineering higher education, including being ranked #16 in the world for Automation and Control Engineering[1], this is the place to develop world-changing solutions.

Discover Engineering degrees

GE3

One of only three Australian member institutions of the GE3 – Global Engineering Education Exchange program

Ranked 1

in Australia and 16 in the world for Automation and Control[1]

92%

employed within four months of graduating[2]

Degree options

Bachelor of Aerospace Systems Engineering (Honours)
Bachelor of Chemical Engineering (Honours)
Bachelor of Civil Engineering (Honours)
Bachelor of Computer Systems Engineering (Honours)
Bachelor of Electrical and Electronic Engineering (Honours)
Bachelor of Engineering (Mining Transfer Program)
Bachelor of Environmental Engineering (Honours)
Bachelor of Mechanical Engineering (Honours)
Bachelor of Mechatronics Engineering (Honours)
Bachelor of Medical Engineering (Honours)
Bachelor of Renewable Energy Engineering (Honours)
Bachelor of Software Engineering (Honours)
Bachelor of Surveying (Honours)
Diploma in Engineering

Also consider

Bachelor of Business
Bachelor of Computer Science
Bachelor of Construction Management
Bachelor of Mathematics
Bachelor of Science
Bachelor of Software Engineering (Honours)

1 ShanghaiRanking's Global Ranking of Academic Subjects 2022.
2 Graduate Outcomes Survey 2019-2021 – Undergraduate Engineering.

For Ryan, not only was there no better choice, but there wasn't another option for the unique degree he wanted to study.

"The University of Newcastle is the only university in Australia that offers aerospace systems engineering, so I was excited and intrigued to start learning exactly what was involved."

This one-of-a-kind program will launch Ryan to the forefront of new technologies and developments in the aerospace industry, and prepare him for a varied and rewarding career.

"My time has been a balance between theoretical and practical assignments, based primarily on aerodynamics and control. One thing I really love are the opportunities available. Varying from the facilities on campus and program projects, to the internships and work placement opportunities. There's always something great you can be doing that will give you a good challenge.

I can honestly say I've loved every minute of it!"

Ryan

Bachelor of Aerospace Systems Engineering (Honours)

Check out Ryan's story

"Travelling halfway across the world to a new place was daunting, but this has been a great place to study. The support from lecturers and fellow students has been wonderful."

Qyto

Bachelor of Surveying (Honours)

"Applying my knowledge in the real world has helped contextualise my degree, and grow my networks, guiding my move from a soon to be graduate, to a more experienced engineer."

Alex

Bachelor of Mechanical Engineering (Honours)

Bachelor of

Aerospace Systems Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 88.83	4 yrs FT / 10 yrs PT

UAC code	Location
482707	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Biology, Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Aerospace systems engineering involves a systems approach to the design, efficient operation and modification of high-tech devices for the aeronautical and defence industries. Aerospace systems engineers need to understand and control the response of aerospace vehicles and manage complex interactions between sensors, controllers, actuators and other aircraft subsystems. Aerospace systems engineering principles deal with the complementary design of aircraft subsystems to ensure they work in unison, without conflict and with the high levels of reliability required in aerospace operations. You'll learn from industry leaders in a program developed in partnership with the Australian Defence Force and the Joint Strike Fighter program. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

The University of Newcastle works closely with aerospace systems industry leaders like Boeing, Lockheed Martin, BAE Systems and defence to provide students with authentic real-world experiences and project work. Become job-ready by building critical, technical engineering skills in:

- A final year research project
- Aerospace system design
- Aircraft operations and performance
- Aircraft systems and avionics
- Airframe and propulsion systems
- Embedded systems engineering
- Flight dynamics and control

Practical experience

All University of Newcastle engineering students have the opportunity to complete 12 weeks of industrial experience during their degree. This can be completed in one block or as shorter placements of no less than two weeks. Through your work placement you'll build important professional networks and put your learning into practice.

Career opportunities

Aerospace engineers are typically employed by national and international airlines, aerospace systems prime contractors, aircraft design and manufacturing companies, airworthiness organisations and the Australian Defence Force.

University of Newcastle Aerospace Systems Engineering graduates will also be well equipped to take up opportunities in systems engineering, mechanical and mechatronics engineering in other industries.

Typical positions include:

- Aerospace Engineer
- Aerospace Systems Engineer
- Satellite Engineer
- Systems Engineer

Professional recognition

Take your career anywhere in the world with international recognition through Engineers Australia and the Washington Accord (Granted provisional accreditation in 2019).

You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)

See the website for more information about this degree

Bachelor of

Chemical Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 95.65	4 yrs FT / 10 yrs PT

UAC code	Location
482600	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

The University of Newcastle trains engineers capable of solving the greatest global challenges. As a Chemical Engineer, you will apply the fundamental principles of physics and chemistry to analyse and design processes, plants, and control systems for productivity, safety and sustainability. Chemical Engineering is about designing efficient processes to produce, utilise, transport and transform materials and energy. Chemical engineers work in a vast range of industries, including both large-scale industries such as mineral processing and energy generation, down to the production of consumer products such as food and cosmetics. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Build critical technical engineering skills in:

- Fluid mechanics
- Green engineering and sustainability processes
- Heat transfer and design of energy systems
- Kinetics and reaction engineering
- Mass transfer and separation processes
- Thermodynamics

Diversify your skills and engineering degree with an elective pathway, a cluster of courses which can be used to:

- Broaden your expertise in another area of engineering
- Deepen your technical competence in your engineering field
- Learn skills in areas outside engineering, such as business or math
- Study overseas at one of our many partner institutions.

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Chemical engineers may be involved in creating products like plastics, fertilisers, consumables, pharmaceuticals and paints. They may also work in fields such as environmental control, resource utilisation, minerals processing, renewable energy, waste management and recycling.

Typical positions include:

- Biotechnology Engineer
- Chemical Safety Manager
- Environmental Remediation Engineer
- Mineral Processing Engineer
- Nuclear Engineer
- Water Treatment Designer

Remarkably, engineering is the most commonly held degree among the highest performing Fortune 500 CEOs – the CEOs of companies such as Google, Microsoft, Amazon and Tesla Motors are all engineers.

Professional recognition

Our degree is accredited through Engineers Australia and the Institution of Chemical Engineers (UK), meaning graduates have greater opportunities for international mobility. Students who successfully complete the Bachelor of Chemical Engineering (Honours) are eligible to apply for membership to the Institution of Chemical Engineers.

Combine this degree with

- Bachelor of Business
- Bachelor of Mathematics
- Bachelor of Science

See the website for more information about this degree

Bachelor of

Civil Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 81.95	4 yrs FT / 10 yrs PT

UAC code	Location
482610	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Civil engineers are responsible for the physical infrastructure that enables modern societies to function. Buildings, bridges, highways and railways, tunnels, airports, water supply and wastewater capture and treatment facilities, power generation facilities and harbour facilities are all designed, built and managed by civil engineers. You might even design Australia's first high-speed train network to connect communities and reduce carbon emissions. Studying at the University of Newcastle will give you a competitive edge in the job market, with courses covering the three key civil specialisations: structural, water and geotechnical engineering. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

All of our civil engineering students complete courses in the three core civil specialisations of structural, water and geotechnical engineering, making them highly employable upon graduation.

Become job-ready through five professional practice courses and diversify your skills with an elective pathway. Build critical, technical engineering skills in:

- Civil engineering materials
- Engineering management
- Geomechanics
- Structural engineering
- Transportation engineering
- Water engineering

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Civil engineers work for construction companies, consulting firms, project management companies, transport companies and governments. Civil engineering is flexible and diverse. You might prefer to work onsite, in design and development, or a leadership role managing people and projects.

Some typical positions include:

- Civil Engineering Designer
- Geotechnical Engineer
- Project Manager
- Stormwater Engineer
- Structural Engineer
- Transport Systems Engineer
- Urban Development Engineer

Students have the option for further study with a Master of Professional Engineering.

Professional recognition

Professional recognition through Engineers Australia and the Washington Accord qualifies you as a professional engineer.

You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Business
- Bachelor of Environmental Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Surveying (Honours)

See the website for more information about this degree

Bachelor of

Computer Systems Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 75.20	4 yrs FT / 10 yrs PT

UAC code	Location
482630	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Computer systems engineers use digital and computing technologies to solve problems in industrial systems. As part of a Bachelor of Computer Systems Engineering (Honours), students will learn to combine creativity with technology to develop both hardware and software for electronic and information and communications technology (ICT) systems. These skills are essential in rapidly growing fields like the Internet of Things, autonomous vehicles, and machine learning. Graduates have a unique skillset and may find themselves developing advanced computing hardware and software for diverse industrial sectors including intelligent transport, e-health, aviation, and civic infrastructure, which are the building blocks of modern society.

What you will study

Become job ready through four professional practice courses and diversify your skills with an elective pathway.

Build critical technical engineering skills in:

- Communication networks
- Computer and electrical engineering
- Cyber security
- Electronics design
- Embedded systems
- Internet of things
- Programmable logic design
- Software engineering

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Computer systems engineering is flexible and diverse. Graduates might choose to focus on hands-on fieldwork, design and development, or pursue a leadership role managing people and projects.

Some typical positions include:

- Computer Systems Analyst
- Computer Systems Engineer/ Specialist
- Cyber Security Engineer
- Electronics Engineer
- Embedded System Developer
- Information and Communications Technologist
- Information Technology Manager
- Network Engineer
- Solutions Architect
- Systems Engineer
- Web/Cloud Computing Developer

Complete one extra year of study and broaden your options with the Master of Professional Engineering.

Professional recognition

Professional recognition through Engineers Australia and the Australian Computer Society. You will be qualified as a professional engineer who can work almost anywhere in the world, such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Computer Science
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Science

See the website for more information about this degree

Bachelor of

Electrical and Electronic Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 78.60	4 yrs FT / 10 yrs PT

UAC code	Location
482640	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Electrical and electronic engineers design and build systems and machines that automate, control, generate, transmit, measure, and use electrical energy essential to modern life. Electrical and electronic technologies are at the heart of our world and our future, including things like alternative energy systems, high speed wireless data communications, electrical transportation systems, micro and nanoelectronics, robotics and automation, and medical technologies. Electrical and electronic engineers work on both the hardware and software (the intelligence) behind the myriad of devices essential to address the needs of modern society. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Build critical technical and engineering skills in:

- Communications systems and the internet of things
- Electric energy systems
- Electric machines, power systems and renewables
- Electrical engineering design
- Procedural programming
- Signals and systems

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Electrical engineers are employed in utilities, industry, manufacturing, transportation, consulting services and electronic design and development.

Some typical positions include:

- Automatic Systems Designer
- Biomedical Instrumentation Designer
- Electrical Design Engineer
- Embedded System Designer
- Renewable Energy Systems Engineer
- Robotics Engineer
- Telecommunications Equipment Designer

Students have the option for further study with a Master of Professional Engineering.

Professional recognition

Professional recognition through Engineers Australia and the Washington Accord qualifies you as a professional engineer. Work almost anywhere in the world, such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Business
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science (Physics major)

Students accepted into the Bachelor of Electrical and Electronic Engineering (Honours) can combine their degree with the UEE30811 Certificate III in Electrotechnology Electrician through TAFE NSW.

See the website for more information about this degree

Bachelor of

Engineering (Mining Transfer Program)

2023 Selection Rank	Duration
75.00 | Median 84.95	4 yrs FT / 10 yrs PT

UAC code	Location
482720	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

When you study the Bachelor of Engineering (Mining Transfer program) you learn about the design, supervision and management of coal, mineral and metal mines and their associated infrastructure – with minimal damage to environments. You'll gain an understanding of civil and mining engineering concepts in preparation for a career as a professional engineer. This program involves two years of study at the University of Newcastle with the remaining two years undertaken at the University of New South Wales or the University of Wollongong. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

You will complete the first two years of a Bachelor of Engineering (Honours) (Civil) at the University of Newcastle and study courses in:

- Civil engineering materials
- Computer programming and numerical methods
- Engineering risk
- Geology and geomechanics
- Mathematics and physics
- Structural and fluid mechanics
- Surveying
- Surveying and transportation engineering design
- Sustainable engineering practice

Towards the end of second year, you may apply through UAC to complete your degree at UNSW or UOW. If you don't wish to transfer, your other option is to move into The University of Newcastle's Bachelor of Civil Engineering (Honours) and receive full credit for courses you have already completed.

Practical experience

Your practical experience will be undertaken during the final two years of study, and those two years will be at your chosen transfer university. Through your work placement you'll build important professional networks and put your learning into practice.

Career opportunities

The mining sector is dominated by large and often multinational companies. The industry is split into two sectors – one specialising in exploration for new resources, and the other in mining those resources. Careers pursued as a mining engineer track the development of a mine from discovery of a mineral resource through to design, commissioning operations and beyond, including:

- Open-cut or underground hard-rock mining
- Mine management
- Drilling
- Blasting
- Planning
- Environmental planning

Mining engineering is flexible and diverse. You may prefer hands-on fieldwork, design and development, or a leadership role managing people and projects.

Some typical positions include:

- Development Superintendent
- Mining Engineer
- Mining Superintendent
- Process Engineer
- Strategic Mine Planning Engineer
- Underground Mining Engineer

Professional recognition

This degree is offered in conjunction with the University of New South Wales and the University of Wollongong.

If you complete your degree in Mining Engineering at UNSW or UOW, you will qualify for professional recognition through Engineers Australia – enabling graduates to have greater opportunities for international mobility.

See the website for more information about this degree

Bachelor of

Environmental Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 93.98	4 yrs FT / 10 yrs PT

UAC code	**Location**
482650	Newcastle – Callaghan
Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

As an environmental engineer you may help rehabilitate land impacted by mining or work on the clean-up of an oil spill that threatens ecosystems. You could even help prevent flooding of some of the world's fast-growing cities. Environmental engineers apply their knowledge of chemistry, geomechanics, hydrology and land surface processes to find solutions to complex environmental problems. With a Bachelor of Environmental Engineering (Honours), you'll be responsible for developing sustainable engineering practices that have a profound impact on health and quality of life – working with other specialists to optimise the use of resources and minimise long-term environmental impacts. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Become job-ready through professional practice courses and diversify your skills with an elective pathway. Build critical technical and engineering skills in:

- Environmental chemistry
- Environmental legislation and planning
- Fluid mechanics
- Hydrobiological modelling
- Land surface process and management
- Water engineering

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Environmental engineering is flexible and diverse. You may prefer hands-on fieldwork, design and development, or a leadership role managing people and projects. You may find work with consultancies, contracting firms, universities, research and development organisations, engineering companies or government organisations. Some typical positions include:

- Climate Change Impact Consultant
- Environmental Impact Consultant
- Environmental Remediation Engineer
- Sustainable Fisheries Consultant
- Toxic Materials Control Engineer
- Water Reclamation Project Designer

Professional recognition

Professional recognition through Engineers Australia and the Washington Accord qualifies you as a professional engineer, meaning graduates have greater opportunities for international mobility.

You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Civil Engineering (Honours)
- Bachelor of Science

See the website for more information about this degree

Bachelor of

Mechanical Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 87.50	4 yrs FT / 10 yrs PT

UAC code	**Location**
482670	Newcastle – Callaghan
Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Mechanical engineers design, manufacture and optimise specialist machines and processes. They solve important problems using robotics, new advanced materials, the fundamental laws of energy generation and transmission and the computer control of physical systems – from nano to mega-tonne scale. They work on everything from power plants, to air conditioners, aircraft engines and race cars. Mechanical engineers are valued for their problem-solving ability and generalist knowledge across the different engineering disciplines and are often employed in discipline-agnostic roles as project managers, designers or advisors. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Mechanical engineering is the broadest of all engineering disciplines. You will gain essential workplace skills with professional practice courses and diversify your skills with an elective pathway. You will develop critical technical and professional skills in:

- Advanced materials and manufacturing
- Bulk solids handling
- Computer-aided engineering, including CAD modelling and drawing
- Design and prototyping of machines and systems
- Fluid dynamics
- Fundamental mathematics and physics
- Mechanics of materials, structures, and machinery
- Thermodynamics

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Almost all industries need mechanical engineers. They work in medical, transport, aerospace, electronics, mining, renewable energy, robotics, automation and advanced manufacturing industries.

Some typical positions include:

- Engineering Project Manager
- Mechanical Engineering Designer
- Mechanical Systems Supervisor
- Mechanical Technology Engineer
- Operating Plant Manager

Students have the option for further study with a Master of Professional Engineering.

Professional recognition

Professional recognition through Engineers Australia and the Washington Accord qualifies you as a professional engineer, meaning graduates have greater opportunities for international mobility.

You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Aerospace Systems Engineering (Honours)
- Bachelor of Business
- Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science (Physics major)

See the website for more information about this degree

Bachelor of

Mechatronics Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 79.35	4 yrs FT / 10 yrs PT

UAC code	**Location**
482680	Newcastle – Callaghan
Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least on science related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

The Bachelor of Mechatronics Engineering (Honours) focuses on the synergy of electrical, computer and mechanical technologies that lead to new solutions to industrial problems. You might build robots or unmanned aircraft, design bionic implants or even energy harvesting equipment. Mechatronics engineers are involved in the technical design, automation and operational performance of the electromechanical systems used in industries such as defence, advanced manufacturing, mining and health. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Gain essential workplace skills with professional practice courses and build critical technical and engineering skills in:

- Autonomous systems
- Electronic design
- Mechatronics design
- Microprocessor systems
- Modelling and simulation
- Sensors and actuators

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Mechatronic engineers play an essential role in a growing number of fields. They might take up careers in the robotics, aerospace, chemical, defence, automotive, marine, manufacturing, mining or finance industries.

Some typical positions include:

- Avionics Engineer
- Data Communications Engineer
- Industrial Automation Engineer
- Robotics Designer
- Smart Infrastructure Designer

Complete one extra year of study and broaden your options with the Master of Professional Engineering.

Professional recognition

Professional recognition through Engineers Australia and the Washington Accord qualifies you as a professional engineer, meaning graduates have greater opportunities for international mobility.

You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

Combine this degree with

- Bachelor of Aerospace Systems Engineering (Honours)
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)

See the website for more information about this degree

Bachelor of

Medical Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 90.80	4 yrs FT / 10 yrs PT

UAC code	**Location**
482690	Newcastle – Callaghan
Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least on science related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Medical engineering is a new and exciting discipline of engineering spanning medicine, biomedical science and engineering. Medical engineers seek to improve human health through the development and design of equipment, devices, computer systems and software. A degree in medical engineering allows you to combine your interest in health and medicine with creativity and problem-solving to address health care challenges such as metabolic disorders, remote diagnostics, and health care accessibility. We offer the only medical engineering degree in NSW, so our graduates are uniquely placed to improve lives both locally and around the world. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Build critical medical and engineering skills through courses in:

- Analogue and digital communications
- Engineering design
- Human pathophysiology
- Neurobiology
- Pharmacology
- Programming and computing

Choose one of the following majors:

- Biomechanics
- Medical Devices

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Medical engineers are involved with the design, development, testing and implementation of safe and effective technological solutions for the health and medicine industry. Depending on your area of specialisation, you could work with:

- Artificial organs
- Biomedical devices
- Diagnostic equipment
- Dialysis equipment
- Implantable devices
- Nanotechnology drug delivery
- Prosthetic limbs
- Radiotherapy equipment
- Rehabilitation systems
- Respirators and ventilators
- Surgical equipment
- Systems and diagnostic tests

Medical engineers work in hospitals and other medical institutions, health-related manufacturing and technology companies, pharmaceutical companies, and research organisations. Emerging technologies and engineering applications in the medical field, combined with an ageing population are leading to global growth in demand for biomedical engineers.

See the website for more information about this degree

Bachelor of

Renewable Energy Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 85.13	4 yrs FT / 10 yrs PT

UAC code	Location
482708	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least on science related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

One of the biggest challenges humankind faces is the transition to a renewable energy economy. The success of this evolution depends on the creative solutions of a new generation of renewable energy engineers with specialised skills. Spanning the disciplines of chemical, electrical and mechanical engineering, the Bachelor of Renewable Energy Engineering (Honours) will equip you to work across the whole spectrum of technologies for renewable energy capture, conversion, storage, delivery and management. You'll also choose courses in related areas of climate change policy, law and economics and environmental sciences. Study at one of only three Australian member institutions of the Global Engineering Education Exchange Program (Global e3).

What you will study

Build critical technical skills in:

- Bioenergy
- Energy storage systems
- Geothermal, hydro, ocean and hybrid systems
- Power electronics and renewable energy systems
- Solar and wind

Become job-ready through four professional practice courses and diversify your skills with an elective pathway.

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

A significant number of highly qualified engineers with specialities in renewable energy are required worldwide in order to meet global commitments to tackle climate change.

That, in addition to community concerns about energy security and affordability, has driven government and organisations to seek highly trained engineers with expertise in the multidisciplinary field of renewable energy to evaluate, design, operate and optimise renewable energy systems for power generation.

Typical jobs include:

- Energy Accounting/Auditing
- Energy Management Consultant
- Energy Policy Development Officer
- Renewable Energy Engineer
- Renewable Energy Innovation
- Renewable Energy Systems Design

Professional recognition

This program has been granted provisional accreditation through Engineers Australia. You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

See the website for more information about this degree

Bachelor of

Software Engineering (Honours)

2023 Selection Rank	Duration
75.00 | Median 89.30	4 yrs FT / 10 yrs PT

UAC code	Location
482700	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and at least on science related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Software engineering is behind much of the everyday technology we take for granted – from our iPads, computer software and mobile phones through to digital televisions, computer games and online banking. With the Bachelor of Software Engineering (Honours), you might develop software for digital forensics analysis to help fight crime, or work in defence and combat cyber attacks. You could design wearable health management devices or write the software that powers e-commerce websites. Software engineers focus on analysing a client's needs. You will learn to design the best software architecture solutions, as well as to coordinate the implementation, integration and testing. Undertake hands-on learning and build your professional networks with 12 weeks of professional practice.

What you will study

During your degree, you will have the opportunity to develop your software engineering skills by working on real world projects with industry clients. This problem-based learning approach will give you the high-level project management skills necessary to succeed as a software engineer, while also exposing you to the wide range of industries and applications in which your skills are in demand.

Become job-ready through professional practice courses and diversify your skills with an elective pathway. Build critical technical and engineering skills in:

- Database management systems
- Enterprise software architectures
- Formal languages and automata
- Programming languages and paradigms
- Software architecture and quality management
- Software development

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

Career opportunities

Software engineering is flexible and diverse. Software engineers play a vital role in a wide range of industries such as defence and security, aerospace, computer games and entertainment as well as government and commerce.

Some typical positions include:

- Applications Software Developer
- Information System Manager
- Internet and Web Engineer
- Software Development Manager
- Software Engineer
- System Analyst and Designer

Professional recognition

Professional recognition through Engineers Australia means graduates will be qualified as professional engineers, meaning graduates have greater opportunities for international mobility. You can work in places such as:

- Canada
- Hong Kong
- India
- Ireland
- Japan
- Korea
- Malaysia
- New Zealand
- Russia
- Turkey
- United Kingdom
- USA

This degree is also accredited by the Australian Computer Society.

See the website for more information about this degree

Bachelor of
Surveying (Honours)

2023 Selection Rank	Duration
75.00 | Median 80.00	4 yrs FT / 10 yrs PT

UAC code	Location
482705	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) (Band 5 or 6) and preferably at least on science related subject (Physics or Chemistry preferred)
Recommended studies	Mathematics (Extension 1)

Our Bachelor of Surveying (Honours) degree is designed to train surveyors capable of meeting the biggest global surveying and town planning challenges. Surveyors specialise in the measurement, management, analysis and display of spatial information describing the Earth and its physical features. The work of surveyors knows no bounds and could see you play an important role both locally and globally. With the Bachelor of Surveying (Honours), you could be involved in projects like the preparation for building of a new tunnel, or mapping of flood areas for disaster preparedness. Your work as a surveyor could even see you involved in the prediction of earthquakes and surveying of the ocean floor.

What you will study

Become job-ready through professional practice courses and diversify your skills with an elective pathway. Build critical technical and surveying skills in:

- Cadastral surveying
- Geodesy
- Hydrology and water engineering
- Industrial Surveying
- Land and mining surveying
- Legal systems and processes for land management
- Modern surveying techniques and computations
- Photogrammetry and laser scanning
- Satellite positioning
- Spatial data systems and remote sensing
- Town planning

Practical experience

Students will complete a total of 12 weeks relevant practical experience. The 12 weeks includes 4 weeks undertaken as part of a 10-unit credit bearing course and an additional 8 weeks.

This program includes a number of practical fieldwork related classes, proving students with an opportunity to undertake real world exercises, often with the support of local land and mining surveyors.

Career opportunities

Surveyors are involved in the planning of almost all development and mapping of the land and earth. A shortage of surveyors in Australia means employment will be easy to find. You may prefer hands-on fieldwork, office-based computation and computer drafting, research, or a leadership role managing people and projects.

Typical positions include:

- Engineering Surveyor
- Geodesist
- Geographic Information Systems Specialist
- Geospatial Specialist
- Hydrographic Surveyor
- Mining Surveyor
- Photogrammetrist
- Registered Land Surveyor
- Town Planning

Professional recognition

This degree program is accredited by the Council of Reciprocating Surveying Boards of Australia and New Zealand (CRSBANZ) and accepted by the Board of Surveying and Spatial Information of NSW (BOSSI) as a qualification for registration.

This degree program is also accredited and recognised by the Land Surveyors Board, Malaysia Board and the Singapore Institute of Surveyors and Valuers (Land Surveying Division).

Combine this degree with

- Bachelor of Business
- Bachelor of Civil Engineering (Honours)

See the website for more information about this degree

Diploma in
Engineering

2023 Selection Rank	Duration
50.00 | Median 53.90	1 yr FT / 4 yrs PT

UAC code	Location
489920	Newcastle – Callaghan

Recommended studies	Mathematics (Standard or Advanced)

The Diploma in Engineering gives you a taste of engineering specialities to help you choose your engineering pathway. The program has a practical orientation, allowing students to develop their skills for further tertiary studies through real world projects and laboratories. It is also a great way to get into an undergraduate degree if you didn't quite meet the entry requirements. The Diploma in Engineering offers a guaranteed entry pathway into all disciplines of the Bachelor of Engineering (Honours) program where you can receive up to 80 units of credit.

What you will study

The Diploma in Engineering has been designed to deliver a core knowledge base that prepares you with the appropriate academic literacy, research, science, mathematics and introductory engineering skills required for further study. You will complete a short list of core and directed courses, providing you with a taste of one of two discipline areas within our 12 engineering specialisations.

Study areas:

- Electrical engineering
- Engineering computations and procedural programming
- Engineering mechanics
- Engineering physics
- Mathematics for engineering, science and technology
- Mechanical engineering design
- Professional engineering

Why study with us

- **Guaranteed degree entry –** Complete the Diploma in Engineering and receive a guaranteed entry into all disciplines of the Bachelor of Engineering (Honours).
- **Receive credit –** Receive up to 80 units of credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Real-world insights –** Connect with industry through projects, guest lectures and mentoring.
- **Diversify your skills and knowledge –** Get a taste of the different engineering disciplines with our directed course list.

Career opportunities

The Diploma in Engineering prepares students for a range of entry level engineering career options; and provides you with a foundation to enable you for further studies associated with a Bachelor of Engineering (Honours) program.

See the website for more information about this diploma

Combined degrees

Bachelor of Aerospace Systems Engineering (Honours)/ Bachelor of Mechanical Engineering (Honours)

Use the broad knowledge acquired in Mechanical Engineering to better understand and control the response of aerospace vehicles to complex interactions between sensors, controllers, actuators and other aircraft subsystems to ensure trouble-free, safe and efficient operations.

Bachelor of Aerospace Systems Engineering (Honours)/ Bachelor of Mechatronics Engineering (Honours)

Use the mechatronics knowledge of design, automation and performance of modern technologies to better understand and control the response of aerospace vehicles to complex interactions between sensors, controllers, actuators and other aircraft subsystems to ensure trouble-free, safe and efficient operations.

Bachelor of Chemical Engineering (Honours)/Bachelor of Business

Complement your technical skills with business acumen. Learn how to manage people and projects, start a consulting firm and manage a business. Prepare yourself for a leadership role with this unique package of capabilities.

Bachelor of Chemical Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Chemical Engineering (Honours)/Bachelor of Science

Deepen your technical skills with comprehensive chemistry courses which are available in the Bachelor of Science. Chemistry is fundamental to chemical engineering and a deeper knowledge of this science can open up opportunities in toxicology, pharmacy, biochemistry, bio-engineering, forensics and research.

Bachelor of Civil Engineering (Honours)/Bachelor of Business

Complement your technical skills with business acumen. Learn how to manage people and projects, start a consulting firm and manage a business. Prepare yourself for a leadership role with this unique package of capabilities.

Bachelor of Civil Engineering (Honours)/ Bachelor of Environmental Engineering (Honours)

Broaden your engineering expertise to open up a wider range of career opportunities. The environmental engineering courses will develop your knowledge of chemistry, geomechanics, hydrology and land surfaces, allowing you to find solutions for complex environmental problems, such as water pollution and soil erosion.

Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Civil Engineering (Honours)/ Bachelor of Surveying (Honours)

Broaden your engineering expertise to open up a wider range of career opportunities. The surveying courses will allow you to specialise in the measurement, management, analysis and display of spatial information describing the Earth and its physical features.

Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science

Open up opportunities in fields such as artificial intelligence, robotics, computer graphics, digital forensics, bioinformatics, web development and data security. You'll be the ultimate well-rounded computing professional.

Bachelor of Computer Systems Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Computer Systems Engineering (Honours)/ Bachelor of Science

Deepen your technical skills with comprehensive physics courses which are available in the Bachelor of Science. Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Business

Complement your technical skills with business acumen. Learn how to manage people and projects, start a consulting firm and manage a business. Prepare yourself for a leadership role with this unique package of capabilities.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Computer Systems Engineering (Honours)

Broaden your engineering expertise to open up a wider range of career opportunities. Your skills in computer systems engineering will help you to combine creativity with technology to develop both hardware and software for electronic and microprocessor-based systems.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Science

Deepen your technical skills with comprehensive physics courses which are available in the Bachelor of Science. Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Environmental Engineering (Honours)/ Bachelor of Science

Chemistry and biology are both fundamental to engineering and a deeper knowledge of these sciences can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Business

Complement your technical skills with business acumen. Learn how to manage people and projects, start a consulting firm and manage a business. Prepare yourself for a leadership role with this unique package of capabilities.

Bachelor of Mechanical Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Mechanical Engineering (Honours)/ Bachelor of Mechatronics Engineering (Honours)

Broaden your engineering expertise to open up a wider range of career opportunities. Your skills in mechatronics engineering will provide a synergy between electrical, computer and mechanical technologies, allowing you to develop electromechanical solutions to industrial problems.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Science

Deepen your technical skills with comprehensive physics courses which are available in the Bachelor of Science. Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Mechatronics Engineering (Honours)/ Bachelor of Electrical and Electronic Engineering (Honours)

Broaden your engineering expertise to open up a wider range of career opportunities. Your skills in electrical and electronic engineering will provide expertise in the design and building of systems and machines that generate, transmit, measure, control and use electrical energy essential to modern life.

Bachelor of Mechatronics Engineering (Honours)/ Bachelor of Mathematics

Deepen your technical skills with advanced maths courses. Mathematics is fundamental to break-through engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

Bachelor of Surveying (Honours)/Bachelor of Business

Complement your technical skills with business acumen. Learn how to manage people and projects, start a consulting firm and manage a business. Prepare yourself for a leadership role with this unique package of capabilities.

Health and Medicine

A long and healthy life is something we all strive for. The field of health and medical services is driven by passionate and caring people, motivated to improve, extend, and even save lives. Our ageing population and increasing rate of chronic illness means that we need more health professionals to provide life-changing treatment and preventative care. From researchers in labs, to doctors and nurses in hospitals and clinics, pharmacists, radiographers, physiotherapists and everyone in between – there's a wide range of dynamic, exciting professions to choose from.

Discover Health and Medicine degrees

Ranked 28

in the world – Nursing[1]

98.9%

of our undergraduate Medicine graduates found full-time employment within four months (above the national average)[2]

australian pharmacy council
ACCREDITED PROGRAM

anmac Australian Nursing & Midwifery Accreditation Council

Degree options

Bachelor of Biomedical Science
Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)
Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)
Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)
Bachelor of Medical Science/Doctor of Medicine (Joint Medical Program)
Bachelor of Midwifery
Bachelor of Nursing
Bachelor of Nutrition and Dietetics (Honours)
Bachelor of Occupational Therapy (Honours)
Bachelor of Oral Health Therapy
Bachelor of Pharmacy (Honours)
Bachelor of Physiotherapy (Honours)
Bachelor of Podiatry
Bachelor of Speech Pathology (Honours)

Also consider

Bachelor of Biotechnology
Bachelor of Exercise and Sports Science
Bachelor of Food Science and Human Nutrition
Bachelor of Medical Engineering (Honours)
Bachelor of Psychological Science
Bachelor of Psychological Science (Advanced)

1 ShanghaiRanking's Global Ranking of Academic Subjects 2022.
2 Graduate Outcomes Survey 2019-2021.

Bachelor of Medical Science student Leroy sums his time up so far at the University of Newcastle succinctly.

"My time studying at the University of Newcastle has been full of different experiences and opportunities, and I can confidently say the great majority of those have been positive. Simply, the University of Newcastle is a friendly, opportunistic environment. For me, it's a place I'm more than happy to thrive in."

And thriving is what he's doing. Embarking on his journey to become a doctor, the support Leroy has been offered during his studies has helped immensely. From the University itself, the community of fellow students he's connected with through the Ma & Morley Scholarship Program, and in particular the second home he's found in the Wollotuka Institute. These support systems have ensured he's been able to navigate the ups and downs that come with studying, they've provided exciting experiences that have built his personal identity and left him with a "chunky list of memorable moments."

Leroy

Bachelor of Medical Science/Doctor of Medicine (Joint Medical Program)

Check out Leroy's story

"I'm now studying my dream degree, after being admitted through a pathway program. The real-life learning makes me so confident about my career, and its purpose in the future."

Emma

Bachelor of Occupational Therapy (Honours)

Bachelor of

Biomedical Science

2023 Selection Rank	Duration
70.00 | Median 96.30	3 yrs FT / 8 yrs PT

UAC code	Location
482100	Newcastle – Callaghan

Recommended studies	Mathematics (Standard or Advanced) and Chemistry and at least one of Physics or Biology

Bachelor of Biomedical Science graduates have the knowledge and skills to contribute to the global advancement of medical research, practice and policy. You'll have the opportunity to study a wide range of courses that provide advanced theoretical knowledge in physiology, anatomy, bioinformatics, cell and molecular biology, biochemistry, medical genetics, microbiology, neuroscience, nutritional science, pathophysiology, pharmacology and immunology. The range of courses maximises flexibility enabling you to tailor your degree to your career aspirations in medical research, laboratory medicine or the health professions. Hands-on experience in clinical laboratories and industry environments is a key component of the Bachelor of Biomedical Science.

What you will study

Opportunities to study a wide range of courses are available through face-to-face and online learning. Core courses provide advanced theoretical knowledge in:

- Anatomy
- Biochemistry
- Cellular and molecular biology
- Experimental design and analysis
- Immunology and microbiology
- Medical genetics
- Neuroscience
- Pharmacology
- Physiology

Choose from electives in your third year of study to prepare for your career in medical research, laboratory medicine or a clinical health profession.

Practical experience

Hone your skills using the highest quality equipment in our world-class, medical sciences precinct on campus. We also offer hands-on experience in industry environments.

Career opportunities

Graduates from the Bachelor of Biomedical Science can complete further studies in health and medicine, or work in a variety of industries including allied health, pharmaceutical, biotechnology industries, research or academia.

Some typical roles include:

- Clinical Research Coordinator
- Geneticist/Genetic Counsellor
- Laboratory Scientist
- Pharmaceutical Scientist
- Reproductive Medicine/IVF Specialist
- Science Educator

See the website for more information about this degree

Bachelor of

Medical Radiation Science (Honours) (Diagnostic Radiography)

2023 Selection Rank	Duration
85.00 | Median 94.00	4 yrs FT

UAC code	Location
483355	Newcastle – Callaghan

Assumed knowledge	English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics

Diagnostic radiography is an important first step to diagnosing, treating and managing injuries and disease. Through the Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography), you'll learn how to use sophisticated technology to create medical images and analyse and manage patient health. Diagnostic radiographers work in a variety of public and private settings in metropolitan, regional and rural areas. The medical images you produce will allow accurate diagnosis and play an important role in improving patient outcomes in both acute and chronic presentations.

What you will study

This degree has a strong foundation in physical, biomedical and behavioural sciences. You will build essential clinical reasoning and patient management skills using our latest technologies and facilities. You will also have access to the latest diagnostic radiography technologies on campus in our world-class, purpose-built, medical sciences precinct.

Areas of study include:

- Anatomy and physiology
- Clinical education
- Clinical methods
- Medical imaging instrumentation
- Patient care
- Physics
- Psychology
- Radiation protection
- Research

Practical experience

All students will undertake approximately 40 weeks of professional practice over the duration of the program. Placements will be in metropolitan and regional settings along with a mandatory rural placement as part of practical experience.

Career opportunities

Our graduates enjoy great employment prospects, with 90% finding work soon after finishing their studies.

Some typical roles include:

- Chief Radiographer
- CT Radiographer
- Diagnostic Radiographer
- Medical Imaging Technologist
- MR Radiographer
- Sonographer

Professional recognition

Once you graduate, you are eligible to apply for registration with the Medical Radiation Practice Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

Bachelor of

Medical Radiation Science (Honours) (Nuclear Medicine)

2023 Selection Rank	Duration
71.00 | Median 90.08	4 yrs FT

UAC code	Location
483365	Newcastle – Callaghan

Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics

As a nuclear medicine scientist, you'll apply advanced medical imaging technologies and radioactive chemical compounds (called radiopharmaceuticals) to image and measure the function or physiology of the body. Nuclear medicine scientists use this knowledge to diagnose, treat and manage injuries and diseases such as sports injuries, cardiovascular disease and cancer in patients across their lifespan.

What you will study

This degree equips you with specialised scientific knowledge and gives you practical medical radiation experience.

Areas of study include:

- Anatomy
- Molecular imaging
- Nuclear medicine instrumentation and radiopharmacy
- Nuclear medicine theory
- Patient care
- Physiology
- Psychology
- Statistics and research methodology

Practical experience

You will complete 42 weeks of clinical placement, supervised and mentored by qualified nuclear medicine scientists in both public and private centres, locally or across Australia. You will have access to world-class facilities and technology, such as our on-campus radiopharmacy laboratory, CT laboratory, and nuclear medicine image processing software.

Career opportunities

Our graduates are highly sought after and enjoy great job prospects with 90% finding work soon after completing studies.

Some typical roles include:

- Nuclear Medicine Application Specialist
- Nuclear Medicine Scientist
- PET/MRI Scientist
- Sonographer

Professional recognition

Our nuclear medicine graduates are eligible to apply for registration with the Medical Radiation Practice Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

Bachelor of

Medical Radiation Science (Honours) (Radiation Therapy)

2023 Selection Rank	Duration
71.00 | Median 83.60	4 yrs FT

UAC code	Location
483375	Newcastle – Callaghan

Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics

Radiation therapy uses specialised radiation technology to target, shrink and destroy cancer cells. The University of Newcastle is a leading radiation therapy trainer and our graduates are sought after worldwide. As a radiation therapist, you'll work in a multidisciplinary team to treat and manage cancer. You'll also have the opportunity to develop new techniques to improve patient outcomes. Studying a Bachelor of Medical Radiation Science (Honours) (Radiation Therapy) will set you on a path to make your mark on the world. You will have access to world-class facilities on campus and have the opportunity to engage with our global clinical partners through the newly established Global Centre for Research and Training in Radiation Oncology.

What you will study

You will gain professional radiation therapy skills through case-based training and interactive teamwork activities, integrating learning into real-life situations.

You will:

- Develop the necessary skills required to operate a linear accelerator to deliver a range of radiation treatment techniques whilst utilising technology such as surface tracking, image-guided RT KV and CBT
- Use sophisticated software to develop custom radiation treatment plans for various cancer types such as breast, prostate and brain.
- Learn how to utilise medical imaging (CT, MRI, X-RAY) to capture and assess treatment information
- Gain skills and experience to create and produce radiation therapy immobilisation equipment e.g. thermoplastic masks

Areas of study include:

- Anatomy and physiology
- Behavioural science
- Clinical methods
- Medical imaging
- Oncology
- Physics
- Radiation treatment technologies
- Research
- Statistics

All University of Newcastle medical radiation science students graduate with Honours, giving you a distinct advantage when seeking employment.

Practical experience

You will complete 42 weeks of a mentored professional placement in metropolitan, regional and rural settings. You will also have access to our world-class, purpose-built medical science teaching facility on campus, which is one of the first of its kind globally. This includes access to the latest Cancer Treatment Planning Software, the Simulation Laboratory, a Virtual Reality Training (VERT) teaching space with 3-Dimensional Technology, a dedicated PC laboratory for cancer treatment planning and training, and a Linear Accelerator and CT Scanner. The teaching laboratories represent a real clinical environment in Simulation, Planning and Treatment processes.

Career opportunities

Our graduates enjoy great job prospects, with 90% finding work within four months of completing their degree.

Some typical roles include:

- Academic
- Advanced Practitioner
- Applications Specialist
- Radiation Therapist

Professional recognition

Our Radiation Therapy graduates are eligible to apply for registration with the Medical Radiation Practice Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

Bachelor of **Medical Science** and Doctor of **Medicine (Joint Medical Program)**

2023 Selection Rank	Duration
N/A | Median N/A	5 yrs FT

UAC code	Location
785000	Newcastle – Callaghan Gosford – Central Coast Clinical School
Recommended studies	English (Standard or Advanced)
Entry requirements	There are additional entry requirements for this degree. See website for more information.

Graduate in five years with two qualifications under your belt. The Bachelor of Medical Science and Doctor of Medicine – Joint Medical Program (JMP) program provides students with the skills and knowledge to begin a career that will help restore, maintain and promote individual and community health in Australia and around the world. The JMP is offered by the University of Newcastle in partnership with the University of New England and Hunter New England Local Health District and Central Coast Local Health District.

What you will study

When studying the five-year Joint Medical Program you will encounter increasingly complex clinical problems, and the challenges of clinical decision-making in urban, rural and remote communities through placement opportunities.

Students will plan and implement their own medical research project, with the support of experienced supervisors. In the final year the major focus is on preparing you to become a work-ready intern.

Practical experience

Our clinical teachers are highly skilled, and many have gained national and international recognition in their fields of expertise. Your clinical experience will begin in the first semester and greatly increase throughout the five years.

You will have a range of professional experiences and gain an in-depth understanding of the patient journey as you meet with patients and carers, visit hospital wards and outpatient clinics, and spend time with doctors and their teams in practice.

Some medical students will study at our new state-of-the-art Central Coast Clinical School, which is a nation-leading medical, nursing and midwifery teaching and education facility. You will develop an understanding of global health systems and have opportunities to undertake placements abroad.

Career opportunities

Our graduates enjoy excellent job prospects. Following completion of the intern year, a wide range of roles are possible with further postgraduate training. Typical graduate roles include:

- Diagnostic Specialists, e.g. Radiologists, Pathologists
- Emergency Doctors
- General Practitioners (GPs)
- Medical Administrators
- Medical Researchers
- Medical Specialists, e.g. Obstetricians and Gynaecologists, Paediatricians, Psychiatrists, Public Health Physicians, Surgeons

Professional recognition

On successful completion of the Joint Medical Program, graduates are eligible for provisional registration with the Medical Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA). A period of accredited intern training is then required before general registration as a medical practitioner can be approved.

Aboriginal and Torres Strait Islander pathway options are available.

See the website for more information about this degree

Bachelor of **Midwifery**

2023 Selection Rank	Duration
78.00 | Median 82.23	3 yrs FT / 6 yrs PT

UAC code	Location
483400 489811 489828	Newcastle – Callaghan Gosford – Central Coast Clinical School Mid-North Coast – Taree
Assumed knowledge	English (Standard or Advanced), Mathematics (Standard), Biology or Chemistry

As a midwife, you will work in partnership with women and their families through pregnancy, labour and birth, and the early parenting period. You will work alongside women and families to achieve the best health outcomes for mothers and their babies. Our Midwifery program has been developed in partnership with, and supported by Local Health Districts so that our midwifery students provide direct clinical care under the supervision of a registered midwife. It has a strong research inspired theoretical basis to prepare students for professional experience placement, helping to create outstanding midwifery graduates that are highly sought after.

What you will study

The Midwifery program is designed to sequentially build midwifery knowledge and skills. You will develop your knowledge and skills in:

- The midwifery profession, human bioscience and the normal psychophysiology of pregnancy, birth and early parenting period including the newborn.
- Women who experience more complex psychophysiological needs.
- Progress to beginner level practitioners, consolidating midwifery knowledge and skills and integrating research into practice.

A mix of both face-to-face and online learning is provided to ensure you are able to be with childbearing women when required, including births, which occur at all hours.

Practical experience

You have the opportunity to complete a minimum of 1,100+ hours of clinical experience in two formats:

- **Clinical placement in a hospital:** A minimum of 880 hours in an allocated hospital and hands-on experience during the antenatal period, labour and birthing, and the postnatal period.
- **Continuity of care relationships with childbearing women:** A minimum of 10 relationship-based experiences as the on-call clinician for expectant mothers.

The remaining 320 hours will be spent in further continuity of care relationships or additional hospital experiences.

Career opportunities

Our graduates enjoy great job prospects with 93% securing work within four months of completing their degree.

Some typical career pathways include:

- Clinical Midwife Educator
- Clinical Midwife Specialist
- Midwife
- Midwife Researcher

Professional recognition

Graduates are eligible to apply for registration to practice as a midwife with the Nursing and Midwifery Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

* ATAR + other selection criteria.

Bachelor of
Nursing

2023 Selection Rank	Duration
63.00 | Median 71.74	3 yrs FT / 8 yrs PT

UAC code	Location
483600	Newcastle – Callaghan
483620	Mid-North Coast – Taree
483610	Gosford – Central Coast Clinical School
Recommended studies	English (Standard or Advanced), Mathematics (Standard), Biology or Chemistry

As one of the most trusted professions, nurses make a real difference to the health and wellbeing of the community. Nurses work in a variety of environments, providing excellence in care to individuals, families, and communities. They are a highly employable workforce across Australia and around the world. Whichever career path you choose as a registered nurse, when you study a Bachelor of Nursing, you can be sure that you'll be making an important and meaningful contribution to society. Students also have the option to study at our new state-of-the-art Central Coast Clinical School, our nation-leading medical, nursing and midwifery teaching and education facility.

What you will study
The Bachelor of Nursing mixes face-to-face and online learning with plenty of hands-on nursing experience in simulated learning laboratories and professional placements. Be inspired by our enthusiastic and experienced educators and internationally ranked researchers who bring courses to life and share their love of learning. You will study nursing theory and practice in:

- Primary, secondary and tertiary nursing
- Aged care
- Mental health
- Human bioscience

Students who perform well may undertake a further year of study to obtain an Honours degree.

Practical experience
You will complete 800 hours of compulsory clinical experience.

Clinical placement is conducted in a variety of settings including:

- Acute care
- Aged-care facilities
- Community health and major teaching hospitals
- International placement
- Medical-surgical facilities
- Mental health settings
- Rural and remote health placements

Hands-on clinical experience is also completed in simulation laboratories on campus.

Career opportunities
Our graduates enjoy great job prospects with 90% securing work within four months of completing their studies. Registered nurses can establish careers in diverse areas such as aged care, mental health, community health, critical care, intensive care, oncology, operating theatres and paediatrics.

Career progression roles for a registered nurse include:

- Clinical Nurse Consultant
- Clinical Nurse Specialist
- Nurse Educator
- Nurse Manager
- Nurse Practitioner
- Nurse Researcher

Professional recognition
Nursing graduates are eligible to apply for registration with the Nursing and Midwifery Board of Australia, under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

Bachelor of
Nutrition and Dietetics (Honours)

2023 Selection Rank	Duration
70.00 | Median 78.93	4 yrs FT

UAC code	Location
483650	Newcastle – Callaghan
Recommended studies	Chemistry

Demand for Bachelor of Nutrition and Dietetics (Honours) graduates is growing as diet and nutrition-related diseases – such as heart disease, diabetes and obesity – become increasingly common worldwide. As a student, you'll have access to world-class researchers and educators, and will learn how to use the latest evidence to manage patient health and discover the powerful science of human nutrition. A career in nutrition and dietetics is immensely rewarding, as you help people understand how nutrition and health are intertwined. You'll help prevent disease, improving overall health in your community and worldwide.

What you will study
This degree combines theoretical and scientific knowledge with practical learning to ensure you are well-prepared for a career in nutrition and dietetics. Your areas of study will include:

- Basic and applied sciences
- Dietetic practice
- Food service and management
- Medical nutrition therapy
- Paediatric nutrition and dietetics
- Professional practice
- Public health nutrition
- Social sciences
- Statistics and research methodology

Practical experience
You will complete professional placements and obtain more than 800 hours of supervised professional practice in a variety of settings across NSW including hospitals, outpatient clinics, community health centres and within rural communities.

Career opportunities
The field of nutrition and dietetics is growing swiftly, providing our graduates with an array of interesting and rewarding career options, including:

- Diabetes Educator
- Dietitian
- Food Service Manager
- Health Administrator
- Health Promotion Officer
- Health Writer
- Nutritionist
- Researcher
- Sports Dietitian

Professional recognition
Our students are eligible to apply for Accredited Practising Dietitian status as well as full membership to Dietitians Australia.

See the website for more information about this degree

Bachelor of

Occupational Therapy (Honours)

2023 Selection Rank	Duration
87.00 | Median 91.80	4 yrs FT

UAC code	Location
483700	Newcastle – Callaghan

Recommended studies Biology (Standard or Advanced) and Mathematics (Standard)

Do you want to support people and communities to overcome challenges, do things that are meaningful and important to them and help them get the most out of life? Occupational therapists work with people across the lifespan and in a variety of settings. They use ongoing assessment to understand what people can and want to do and what limitations they are experiencing. They provide advice, techniques, equipment and support to enable people to safely and effectively engage in taking care of themselves and others. With the Bachelor of Occupational Therapy (Honours), you can enable children to reach developmental milestones, assist people to return to their daily lives after a stroke or hip replacement, or design programs that allow people to return to their jobs after a workplace injury, and much more.

What you will study

You will gain theoretical knowledge in biomedical, behavioural and occupational sciences, and learn professional occupational therapy skills through case-based learning and interactive teamwork activities.

Areas of study include:

- Anatomy and physiology
- Biomedical, behavioural, and occupational sciences and therapy
- Psychology
- Sociology and community development
- Statistics and research methodology

Practical experience

You will complete 1,000 hours of professional practice and be supervised by qualified occupational therapy practice educators. During your study, you will have access to interactive, technology-based learning facilities including our specially designed clinical skills laboratories.

Career opportunities

Our graduates enjoy great job prospects with 97% securing work within four months of completing their studies. Embark on a rewarding career as an occupational therapist, working closely with individuals to assess their unique situation, determine goals, and put together a plan for success.

Some typical roles include:

- Disability Services Manager
- Injury Management Advisor
- Lifestyle Coordinator
- Occupational Therapist
- Rehabilitation Consultant

Professional recognition

Accredited by the Occupational Therapy Board of Australia (OTB) under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

Bachelor of

Oral Health Therapy

2023 Selection Rank	Duration
85.00 | Median 96.80	3 yrs FT

UAC code	Location
483750	Central Coast – Ourimbah

Recommended studies Chemistry and Biology

As an oral health therapist, you'll work closely with dental practitioners to provide a range of preventative, periodontal and restorative procedures like oral health advice, supra and subgingival debridement, dental polishing, dental x-rays, dental restorations, and the extraction of primary teeth. The Bachelor of Oral Health Therapy program provides dual qualifications in dental hygiene and dental therapy, with the scope of practice qualifying you to treat both children and adults. Our program offers an extended restorative scope, not offered elsewhere in NSW.

What you will study

Build your scientific knowledge and clinical skills to provide preventative, periodontal and simple restorative treatments to individuals and communities. Your areas of study will include:

- Clinical treatment for diverse communities
- Dental therapy
- Human bioscience and anatomy
- Oral pathology
- Periodontology

Practical experience

You will complete a minimum of 500 hours of supervised dental practice, initially in our on-campus oral health clinic and later in clinical placements. Clinical placements could include working in:

- Childcare facilities
- Community dental clinics
- Public hospital dental clinics
- Residential aged care facilities
- Specialist dental departments

Career opportunities

Our graduates have great job prospects with 91.5% securing work within four months of finishing their degree. With dual qualifications in dental hygiene and dental therapy, many University of Newcastle graduates are quickly employed.

Typical roles include:

- Dental Hygienist
- Health Promotion Officer
- Industry Sales Representative
- Oral Health Academic
- Oral Health Therapist
- Public Health practitioner

Professional recognition

Accredited by the Australian Dental Council. Once you graduate, you will be eligible to apply for registration with the Australian Health Practitioner Regulation Agency (AHPRA) as an Oral Health Therapist.

See the website for more information about this degree

Bachelor of
Pharmacy (Honours)

2023 Selection Rank	Duration
70.00 | Median 86.20	4 yrs FT

UAC code	Location
483800	Newcastle – Callaghan

Recommended studies	English (Advanced), Chemistry and Physics

Pharmacists play an integral role in the provision of healthcare services. As a pharmacist, you'll be on the industry frontline – counselling people on the best use and management of medications. When you study a Bachelor of Pharmacy (Honours), you'll learn how to provide advice on the symptoms and management of common ailments, prepare and formulate medications, and educate the community on a wide range of health and wellbeing matters.

What you will study
You will develop an extensive knowledge of the essential sciences, pharmacotherapeutics and pharmaceutical sciences that are required to practice as a pharmacist. In particular, you will study:

- Anatomy and physiology
- Chemistry
- Dosage formulations
- Drug design and discovery
- Epidemiology
- Pharmacotherapeutics
- Pharmacy practice

Practical experience
You will undertake over 420 hours of clinical placement in a variety of settings both locally and nationally. This will include community and aged care facilities, hospitals, and rural pharmacies throughout the Hunter, Central Coast, Mid North Coast and the University's Department of Rural Health sites.

Career opportunities
You will discover a range of options that you can choose to pursue in your pharmacy career. You could find yourself working in areas such as investigating drug design, discovery and formulation, to pharmacy practice, personalised healthcare and health technology assessment. Typical roles include:

- Community Pharmacist
- Consultant/accredited Pharmacist
- Hospital Pharmacist
- Industrial Pharmacist
- Researcher

Professional recognition
Once you graduate, you will need to complete a one-year internship before being registered with the Pharmacy Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA) requirements. This degree is accredited by the Australian Pharmacy Council.

See the website for more information about this degree

Bachelor of
Physiotherapy (Honours)

2023 Selection Rank	Duration
95.00 | Median 99.15	4 yrs FT

UAC code	Location
483850	Newcastle – Callaghan

Assumed knowledge	Chemistry, English (Advanced) and at least one of Physics or Biology

Bachelor of Physiotherapy (Honours) graduates work with people of all ages to help them stay well and maintain their function, independence and quality of life. You'll study evidence-based-physiotherapy clinical skills and develop capabilities in critical thinking, problem-solving, communication and lifelong learning. Physiotherapy graduates work in various public and private settings including hospitals, rehabilitation and community centres, aged care, with sporting teams and in private practice. The Bachelor of Physiotherapy (Honours) integrates academic theory with extensive practical experience to produce graduates who are ready to meet the challenges of the changing healthcare system.

What you will study
You will gain professional physiotherapy skills underpinned by relevant biomedical and behavioural sciences.

Your areas of study will include:

- Advanced anatomy, physiology and pathophysiology
- Clinical physiotherapy
- Health promotion and community health
- Statistics and research methodology

Practical experience
You will complete a large amount of supervised clinical practice during the degree. Clinical placements start in the early years of the program and continue throughout the degree. Students undertake clinical placements in a wide variety of settings including hospital inpatients and outpatients, community and rehabilitation centres, private practices and aged care.

Career opportunities
Our graduates have great job prospects with 97% securing work within four months of finishing their degree. A physiotherapy qualification from the University of Newcastle will ensure you have the vital skills required to excel as a health professional. Our graduates are employed in public and private health care organisations, aged care, community and workplace settings, as well as with sporting teams and in private practice.

Professional recognition
This degree has full accreditation awarded by the Australian Physiotherapy Council. Graduates are eligible to apply for registration with the Physiotherapy Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).

See the website for more information about this degree

* ATAR + other selection criteria.

Bachelor of
Podiatry

2023 Selection Rank	Duration
70.00 | Median 80.30	4 yrs FT

UAC code	Location
483900	Central Coast – Ourimbah

Assumed knowledge	Chemistry and Mathematics (Standard or Advanced)

The Bachelor of Podiatry will be a new four-year joint degree with Western Sydney University in Australia. As a podiatrist, you'll help patients get back on their feet by diagnosing, treating and preventing lower leg and foot problems and promoting good health. You could find yourself managing sports injuries and complex lower limb complications in people with chronic disease, addressing developmental issues in children or helping restore a person's independence and mobility. You will be exposed to the latest technology and evidence-based practice in treating a wide range of podiatric pathologies. By the end of your training, you will be eligible to prescribe a range of medications to treat different podiatric conditions. There is an urgent need for more podiatry in the community, our graduates are highly employable thanks to our world-class podiatry program (>90% employment rate in the first 4 months).

What you will study
You will discover how to identify and analyse complex health problems within podiatry practice and develop multidisciplinary solutions.

Your course topics will include:

- Anatomy
- Biomechanics
- Podiatric medicine
- Pharmacology and Physiology

Practical experience
Podiatry students complete more than 1,000 hours of practical clinical experience in different local hospitals and work alongside experienced podiatrists, researchers and podiatric surgeons. Our state-of-the-art teaching facilities include orthoses, clinical skills and research laboratories. We also have a fully equipped university-run clinic where students are given opportunities to learn and practise on real patients at Wyong and Newcastle Hospital.

Career opportunities
Our graduates enjoy great job prospects with 90% securing work within four months of finishing their degree.

Typical roles include:

- Footwear Technical Representative
- Health Promotion Officer
- Orthotist/Prosthetist
- Podiatric Surgeon
- Private and/or public podiatry practice e.g. sports podiatry, paediatric, diabetes high risk foot care
- Researcher
- Technical Sales Representative

Professional recognition
After graduating, you will be eligible to apply for registration with the Podiatry Registration Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).

Accredited by the AHPRA Accreditation Committee.

See the website for more information about this degree

Bachelor of
Speech Pathology (Honours)

2023 Selection Rank	Duration
70.00 | Median 78.73	4 yrs FT / 10 yrs PT

UAC code	Location
484150	Newcastle – Callaghan

Recommended studies	Biology, Chemistry, Mathematics (Advanced) and English (Advanced)

Speech pathologists are allied health professionals responsible for the assessment and treatment of children and adults with communication and swallowing disorders across the lifespan. When you undertake a Bachelor of Speech Pathology (Honours) at the University of Newcastle, you'll have the opportunity to study with award-winning researchers and gain an understanding of the profession through substantial clinical experience.

What you will study
This degree is an interdisciplinary program. Throughout the degree, you will study linguistics, human bioscience, statistics, psychology as well as speech pathology specific courses. You will develop competencies and skills to confidently assess, diagnose and treat a range of conditions including, but not limited to developmental speech and language disorders, swallowing and feeding disorders, stuttering, voice disorders, neurodevelopmental conditions such as cerebral palsy, acquired conditions such as stroke and head injury, and neurological conditions like Parkinson's disease.

Practical experience
Develop impressive real-world skills with more than 20 weeks of clinical placement and a comprehensive range of practical experiences. Opportunities exist for placements in local, metropolitan, regional and rural clinics within Australia and internationally. Additionally, some clinical placements are completed within the University of Newcastle's on-campus speech pathology clinic. Students must meet all the Bachelor of Speech Pathology (Hons) requirements including a National Criminal Record Check, and meet all the NSW Health Verification requirements. For more information visit the University of Newcastle website.

Career opportunities
The strong practical focus of this degree, and professional accreditation, prepares graduates for immediate professional employment. Diverse work opportunities exist in hospitals, community health centres, schools, private practice and aged care facilities. As well as working as a speech pathologist, there are opportunities for graduates to work in other related roles in health promotion, research and health services. Fluency in other languages enriches the skills and services provided by professional speech pathologists. Concurrent enrolment in the Diploma in Languages unlocks unique opportunities and career pathways in Australia and around the world.

Professional recognition
Accredited by the Speech Pathology Association of Australia. Accreditation is recognised in Canada, the United Kingdom, New Zealand and the United States of America. This degree is also recognised by Ministry of Health, Singapore.

See the website for more information about this degree

Combined degrees

Bachelor of Biomedicine/Bachelor of Laws (Honours)

Graduates of the Bachelor of Biomedicine are trained in basic knowledge of the structure and function of living organisms with particular focus on the human. Using this knowledge, together with problem solving skills, critical reasoning and scientific methods taught in the program, the graduate is well prepared to collaborate on scientific investigations. The Bachelor of Laws (Honours) degree meets the academic requirements needed to gain admission to the practice of law in New South Wales. This program fosters understanding of how society functions and develops skills of analytical and logical reasoning.

Humanities and Social Sciences

Are you fascinated by how different people interact, and the way society operates? Maybe you're passionate about art, language, history, Indigenous studies, politics or religion? There's so much to explore in the areas of Humanities and Social Sciences, and even more career pathways for you to follow. You might work to address social challenges in local and global communities. Or maybe you're striving to become a curator, creative director or producer, a translator or journalist, a community development manager or cultural heritage conservationist. The opportunities are vast – and growing every day.

Discover Humanities and Social Science degrees

Top 2

in Australia for student support for undergraduate Social Work graduates[1]

88.2%

of undergraduate Humanities, Culture and Social Sciences students satisfied overall[2]

#1

in NSW for learning resources and skills development (Undergraduate Social Work)[3]

Degree options

Bachelor of Arts
Bachelor of Development Studies
Bachelor of Global Indigenous Studies
Bachelor of Social Science
Bachelor of Social Work (Honours)
Diploma in Arts and Social Science
Diploma in Languages

Also consider

Bachelor of Media and Communication
Bachelor of Laws (Honours) Combined
Bachelor of Music and Performing Arts
Bachelor of Psychological Science
Bachelor of Visual Communication Design

1 Student Experience Survey 2019-2020.
2 Course Experience Questionnaire 2020-2021.
3 The Good Universities Guide 2021.

Not everyone knows exactly what they want to do when they finish school. And that's perfectly normal. For Bachelor of Social Work (Honours) student Megan, her university experience started a little later in life. And it's a decision that's changed her life for the better.

"Deciding to quit my job and study full-time as a mature age student was one of the scariest but best decisions I ever made!

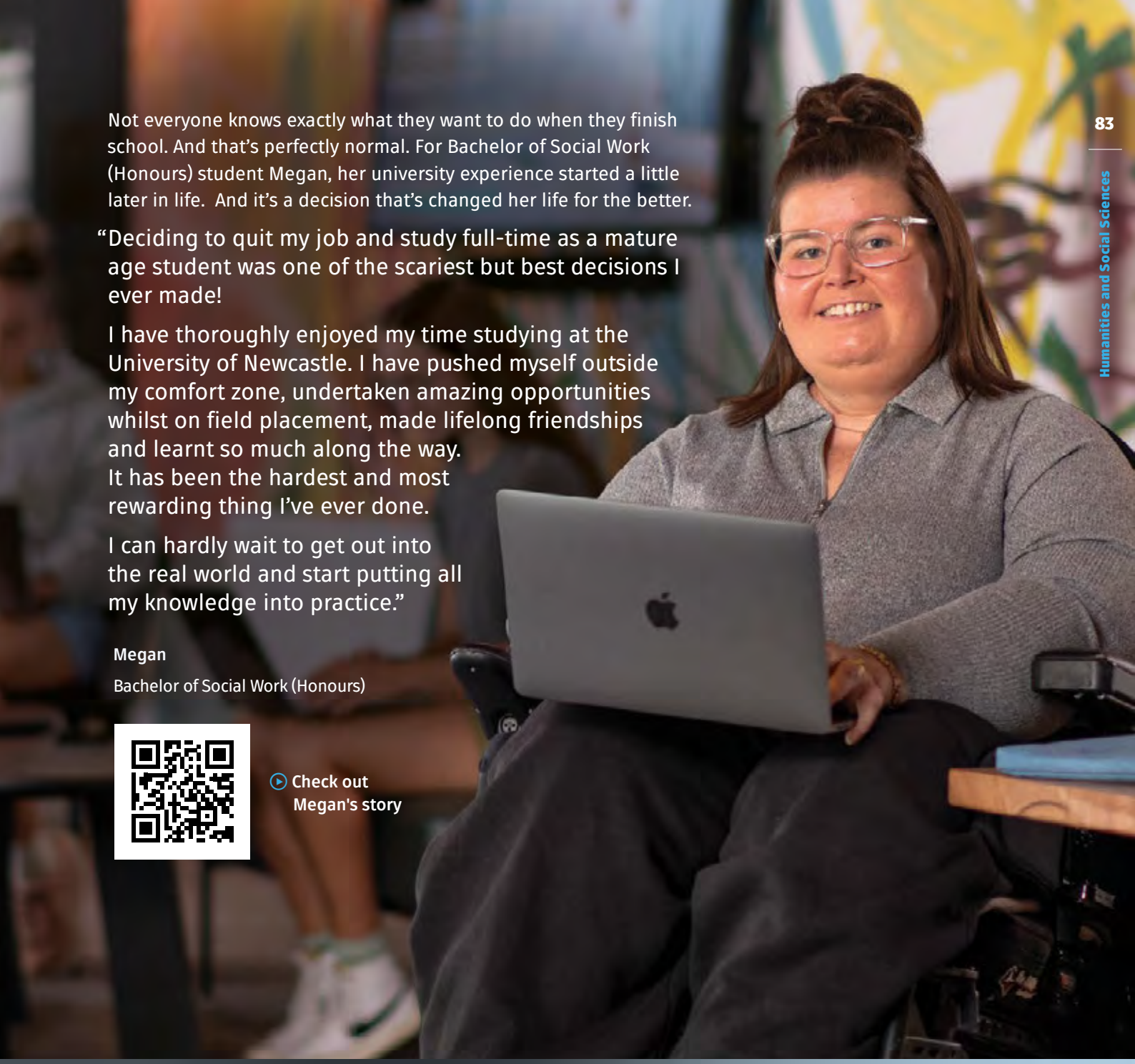
I have thoroughly enjoyed my time studying at the University of Newcastle. I have pushed myself outside my comfort zone, undertaken amazing opportunities whilst on field placement, made lifelong friendships and learnt so much along the way.
It has been the hardest and most rewarding thing I've ever done.

I can hardly wait to get out into the real world and start putting all my knowledge into practice."

Megan

Bachelor of Social Work (Honours)

Check out Megan's story



"As a mature aged student I have appreciated the support to learn, or re-learn in my case, how to write and reference essays, use the library, and navigate the online systems."

Naomi

Bachelor of Social Work (Honours)

Bachelor of

Arts

2023 Selection Rank	Duration
62.00 | Median 71.45	3 yrs FT / 8 yrs PT

UAC code	Location
482010	Newcastle – Callaghan
482040	Online

Recommended studies English (Advanced) (for all majors) and Mathematics (Standard or Advanced) (for Psychology Studies major)

Enrich your mind, diversify your skills and safeguard your future with our new work-ready arts degree at the University of Newcastle. Forge your own path by choosing from over 12 majors and 21 minors, including eight majors that are offered entirely online, and hundreds of courses in the arts and humanities. If you're hungry for knowledge, an arts degree will allow you to turn your interests into a meaningful career. Study a range of courses to better understand and appreciate the world around you, and what it means to be human. Explore ideas, theories and records of the human experience while learning about society, culture, history, language, media, politics and more.

What you will study

Explore diverse areas of study and tailor your degree to suit your interests and ambitions.

Choose from the following majors:

- English and Writing
- French Studies
- German
- Global Indigenous Studies
- History
- Human Geography and the Environment
- Japanese Studies
- Linguistics
- Performing Arts
- Politics and International Relations
- Psychology Studies
- Screen and Cultural Studies
- Sociology and Anthropology

Minors are available in the above majors as well as:

- Ancient History
- Chinese
- Education
- Gender and Sexuality Studies
- Information Technology
- Studies of Religion
- Violence Studies
- Writing Studies

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs.

Career opportunities

Employment options for graduates are linked with your chosen areas of specialisation and may include roles in local, state and national public service, non-government organisations, higher education, media and communications, arts and cultural organisations, as well as other diverse sectors which are increasingly calling for employees possessing skills developed by the Bachelor of Arts.

Combine this degree with

- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Laws (Honours) Combined
- Bachelor of Music and Performing Arts
- Bachelor of Science

See the website for more information about this degree

Bachelor of

Development Studies

2023 Selection Rank	Duration
68.00 | Median 89.20	3 yrs FT / 8 yrs PT

UAC code	Location
482550	Newcastle – Callaghan

Development, poverty, inequality and environmental sustainability are some of the most important issues in the world today. You'll focus on key global issues in local, national or international contexts. You could find yourself employed by the Federal Department of Foreign Affairs and Trade, working with countries to be more competitive in international trade. On a local level, you could work with Indigenous communities and natural resource managers to more effectively care for Country. Or you could help plan our cities and regions to create more just places for people to live. No matter your focus, when you study a Bachelor of Development Studies you'll go on to make a positive difference in the world. Diversify your studies with the choice of four majors, and develop a global mindset with options to travel abroad while studying. You will have the opportunity to undertake 140 hours of work placement, making you a job-ready graduate upon completion of your degree.

What you will study

Choose from one of the following majors:

- Cultures and Citizenship
- Environmental Sustainability
- Globalisation and Economic Development
- Urban and Regional Development

You will study real-world issues such as globalisation, environmental change, sustainable development and social justice. Our interdisciplinary approach means that in addition to your major you are exposed to a wide range of areas including Aboriginal studies, economics, geography, politics, sociology and environmental studies.

Practical experience

This degree places a strong focus on both field trips and work placement. Your fieldwork, in the Hunter Valley and Central Coast, will give you the chance to develop research skills by interpreting patterns in the local environment.

You can choose to develop your expertise in community development with a 140-hour work placement as part of your degree. The opportunity for a global experience is also available with international work placement in countries such as Ecuador, the Philippines, South Korea, Singapore, India, Japan, China, Malaysia, South Africa or Sweden.

Career opportunities

Skills, abilities and knowledge learnt in the Bachelor of Development Studies are highly sought after by a broad range of employers, including international aid organisations, consulting firms and local, state and federal government departments. Some typical roles include:

- Aboriginal Cultural Educational Officer
- Aid Worker
- Community Development Worker
- Multicultural Community Liaison Officer
- Urban Planner
- Youth Worker

Combine this degree with

- Bachelor of Business
- Bachelor of Media and Communication
- Bachelor of Global Indigenous Studies
- Bachelor of Laws (Honours) Combined
- Bachelor of Social Science

See the website for more information about this degree

Bachelor of

Global Indigenous Studies

2023 Selection Rank	Duration
62.00 | Median N/A	3 yrs FT / 8 yrs PT

UAC code	Location
482001	Newcastle – Callaghan
482002	Online

Do you want to work effectively with local and global communities using Indigenous knowledge systems to respond to ecological, social and economic challenges? The Wollotuka Institute within the University of Newcastle is committed to the advancement of Indigenous education at a local, national and international level. You could find yourself in a range of vocations that require social innovation and digital excellence, utilising critical Indigenous knowledge to address pressing global issues. This degree is designed to deliver culturally secure and innovative social advocates and is open to all students.

What you will study

The Bachelor of Global Indigenous Studies delivers a core focus on ensuring a strong student understanding of culture, history and politics.

You will choose from the following majors:

- Entrepreneurship and Innovation
- Film, Media and Cultural Studies
- Global Indigenous Studies
- Human Geography and the Environment
- Human Resource Management
- Human Services
- Politics and International Relations
- Sociology and Anthropology

Minor studies are available in:

- Gender and Sexuality Studies
- Information Technology
- Writing Studies

Practical experience

From 2023, all undergraduate students will complete work-integrated learning as part of their degree programs.

Career opportunities

The Bachelor of Global Indigenous Studies opens doors for jobs in a range of areas in both Indigenous and non-Indigenous organisations internationally. Graduates will pursue rewarding careers in Indigenous affairs and beyond. Some typical roles include:

- Community Development Worker
- Cultural Heritage Conservationist
- Digital Media Content Producer
- Global Development Worker
- Organisational Cultural Diversity Practitioner
- Policy and Research Officer
- Program Innovation Consultant
- Social Enterprise Founder
- Startup Entrepreneur

Combine this degree with

- Bachelor of Development Studies
- Bachelor of Laws (Honours) Combined

See the website for more information about this degree

Bachelor of

Social Science

2023 Selection Rank	Duration
62.00 | Median 65.66	3 yrs FT / 8 yrs PT

UAC code	Location
484050	Newcastle – Callaghan
484060	Central Coast – Ourimbah

Recommended studies	English (Advanced) and Mathematics (Standard or Advanced) (for Psychology Studies majors)

Make your mark on the world by crafting new solutions to various social challenges. By studying our Bachelor of Social Science degree, you will gain an empowering qualification that leads to rewarding careers in diverse fields. This degree will see you develop cultural sensitivity, ethical awareness and a solid understanding of the systems that define our world. Social Science is the study of social relationships, structures and issues. Through core and directed courses, you will learn to analyse, challenge and gain insight into globally significant theories about gender, class, race, crime, illness and health, work, social justice and social organisation. You will also explore the exciting complexities of the human social experience and learn to apply the research methodologies of social science to the societies in which we exist.

What you will study

Specialise in one of the following majors:

- Criminology
- Global Indigenous Studies
- History
- Human Geography and the Environment
- Human Resource Management and Industrial Relations
- Human Services
- Linguistics
- Politics and International Relations
- Psychology Studies
- Sociology and Anthropology
- Tourism and Event Management

Graduate with Honours – for one extra year of study at the end of your degree, you can refine your practical research skills and enhance your career prospects by completing the Honours program.

Practical experience

As part of this degree you will complete an 80-hour work placement with organisations involved in social research, education, human resources or community service.

Career opportunities

Whatever your preferred path, you will graduate with work-ready skills for a career such as:

- Aboriginal Cultural Educational Officer
- Case Manager/Worker
- Corrections Officer
- Criminologist
- Cultural Development Officer
- Demographer
- Foreign Affairs and Trade Officer
- Health Promotion Officer
- Historian
- Linguist
- Police Officer
- Social Scientist
- Tourist Information Officer

Combine this degree with

- Bachelor of Development Studies
- Bachelor of Laws (Honours) Combined
- Bachelor of Psychological Science

See the website for more information about this degree

Bachelor of

Social Work (Honours)

2023 Selection Rank	Duration
65.00 | Median 72.00	4 yrs FT / 10 yrs PT

UAC code	Location
484100	Newcastle – Callaghan
484110	Central Coast – Ourimbah

Recommended studies At least one of English (Standard or Advanced), Society and Culture, Community and Family Studies or Languages

Studying social work will equip you with the skills to make a difference and impact people's lives. Social workers are concerned with personal and social relationships between individuals, families, groups, organisations and communities. They seek to relieve distress, redress inequality, promote social justice and participate in the processes of social change which remove structural disadvantage and create opportunities for people to achieve their own goals. The Bachelor of Social Work (Honours) is an experience-based degree program that will prepare you for a professional career as a social worker. There is a strong demand for qualified Social Workers and job opportunities are broad and incredibly rewarding.

What you will study

The Bachelor of Social Work (Honours) at the University of Newcastle is an experience-based learning degree. This degree integrates theory and evidence with social work values and skills for practice. You will undertake a program that includes a combination of workshop-based teaching, small group and hands-on, active work-integrated learning (WIL).

Core units of study in the program include:

- Aboriginal studies
- Law for social work
- Psychology
- Social policy and planning
- Social work ethics
- Social work theory and practice
- Sociology

Practical experience

Your work readiness will be strengthened by industry experience throughout your program of study including:

- A minimum of 1,000 hours of supervised field education placements
- Industry-engaged simulation learning, project-based and research with industry partners

Students must meet all the Bachelor of Social Work (Honours) placement requirements including a National Criminal Record Check, NSW Working with Children clearance and meet all the NSW Health Verification requirements. For more information visit the University of Newcastle website.

Professional recognition

Accredited by the Australian Association of Social Workers (AASW).

Career opportunities

In Australia, social workers practise in a number of fields including:

- Aged care
- Child protection
- Community development
- Disability
- Education
- Family and relationship counselling
- Health
- Income support and housing
- Juvenile justice or youth
- Mental health and substance use
- Refugees and asylum seekers
- Research
- Social policy

See the website for more information about this degree

Diploma in

Arts and Social Science

2023 Selection Rank	Duration
50.00 | Median 54.38	1 yr FT / 4 yrs PT

UAC code	Location
489816	Newcastle – Callaghan
489817	Central Coast – Ourimbah

There is so much to explore in arts and social sciences, and even more career pathways for you to follow. Find your special interests or develop diverse skills across a broad range of subjects including Indigenous studies, communication, criminology, sociology and anthropology, geography, history, linguistics, human services and international studies. Whether you want to become a journalist, community development manager, anthropologist, or cultural heritage conservationist, the Diploma in Arts and Social Sciences will help you get there.

What you will study

The Diploma in Arts and Social Sciences has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas within our Bachelor of Arts, Bachelor of Media and Communication, Bachelor of Criminology, Bachelor of Global Indigenous Studies or Bachelor of Social Science degrees.

Study areas:

- Arts
- Communication
- Criminology
- Development Studies
- Global Indigenous Studies
- Humanities
- Social Sciences
- Society and Culture
- Sociology

Why study with us?

- **Guaranteed degree entry –** Complete the Diploma in Arts and Social Sciences and receive a guaranteed entry into the Bachelor of Arts, the Bachelor of Media and Communication, the Bachelor of Criminology, the Bachelor of Development Studies, the Bachelor of Global Indigenous Studies or the Bachelor of Social Science.
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different arts and social science disciplines with our directed course list.

Career opportunities

The Society and Culture study area is large and diverse with employment opportunities in local, state and commonwealth public service, non-government organisations, higher education, media and communications and in arts and cultural organisations.

See the website for more information about this diploma

Diploma in
Languages

2023 Selection Rank	Duration
N/A | Median 63.80	1 yr FT / 6 yrs PT

UAC code	Location
489980	Newcastle – Callaghan
489981	Online

Language graduates often cite great personal satisfaction as one of the many rewards. Proficiency in other languages will enrich your personal growth and develop in-demand skills, opening many doors to diverse careers and unique opportunities. As part of this exciting diploma, students will be able to study a range of languages including Chinese, French, German, Indonesian, Japanese, Australian Indigenous Languages and Australian Sign Language, either alongside your undergraduate degree or as standalone program. You will learn how to read, write and speak the language of your choice, while learning more about the relevant culture.

What you will study

When you study the Diploma in Languages, you will gain proficiency in a Language Other Than English (LOTE) as well as having the opportunity to learn Australian Sign Language (Auslan). Overseas study opportunities are available to learn the language in country.

Our languages diploma offers courses that cover a range of language competencies in formal and informal contexts, including speaking, listening, reading and writing. iIn addition to this, students will have the opportunity to learn about the cultural foundations and business environment of the countries in which the language is native. You can focus on just one language or elect multiple languages. You can choose from:

- Auslan (Australian Sign Language)
- Australian Indigenous Languages
- Chinese (Mandarin)
- French
- German
- Indonesian
- Japanese

Career opportunities

Diploma in Languages graduates enjoy diverse career opportunities, with their added qualification and language skills opening doors in Australia and around the world. Students will only be adding one year of study to their undergraduate degree but graduating with two qualifications – a bachelor degree and a diploma. Dual qualifications give an added boost to your employment chances in almost any job or industry.

Career pathways using your Diploma in Languages include roles in:

- Commercial industries
- Diplomacy and government
- Education
- Journalism
- Law and policy development
- Professional and literary translation

See the website for more information about this diploma

Humanities and Social Sciences
Combined degrees

Bachelor of Arts/Bachelor of Innovation and Entrepreneurship Combined

Broaden your understanding of how innovation and entrepreneurship is applied within a wider context. This combination will complement your innovative mindset with an enhanced understanding of how society functions.

Bachelor of Arts/Bachelor of Laws (Honours) Combined

Broaden your understanding of legal issues by seeing them within a wider context. This combination will complement your legal knowledge with an awareness of the social context of the law.

Bachelor of Arts/Bachelor of Music and Performing Arts

This combination gives you the opportunity to acquire skills of analysis, research and logic, coupled with specialised skills in music, preparing you to confidently perform at a professional standard.

Bachelor of Arts/Bachelor of Science

Combine your inquisitive mind and creative passion to make a positive difference in the world. You could contribute to a variety of arenas including technology, research and development, agriculture, health and more.

Bachelor of Development Studies/Bachelor of Business

This combined program builds on interdisciplinary understandings of uneven development and business practice. It also encompasses a practical angle, with students learning from case studies and real business situations in Australia and internationally.

Bachelor of Development Studies/ Bachelor of Media and Communication

Focus on key global issues in local, national or international contexts, while also pushing your creative boundaries, and gaining practical skills with access to the latest media technologies including our multi-camera television studio and radio and sound recording studios.

Bachelor of Development Studies/ Bachelor of Global Indigenous Studies

Development Studies focuses on real-world issues such as globalisation, environmental change, sustainable development and social justice. Combining this degree with a Bachelor of Global Indigenous Studies will prepare you for employment in fields related to Indigenous affairs, immigration and citizenship or community development.

Bachelor of Development Studies/ Bachelor of Laws (Honours) Combined

Law complements a range of professions where a passion for justice and attention to detail are key. By combining this degree with a Bachelor of Development Studies, you will be able to advocate for change and make a real difference in issues like development, poverty and inequality.

Bachelor of Development Studies/Bachelor of Social Science

Social science focuses on social relationships, structures and issues. By combining this degree with the Bachelor of Development Studies, you will be able to use your knowledge of development, poverty, inequality and environmental sustainability to make a positive impact on global issues.

Bachelor of Global Indigenous Studies/ Bachelor of Laws (Honours) Combined

You will develop an understanding of the social, political and justice issues impacting the Indigenous community of Australia and use your skills to solve legal challenges in Indigenous affairs and beyond.

Bachelor of Psychological Science/Bachelor of Social Science

Psychological science is the scientific study of human behaviour and social science is the study of social and cultural relationships, structures and issues. By studying this combined program, you will learn skills useful in solving societal challenges and positively impact the lives of others.

Bachelor of Social Science/Bachelor of Laws (Honours) Combined

This Bachelor of Social Science combination is ideal if you are interested in improving social justice, anti-discrimination and human rights.

Law

If you're passionate about justice and want to understand more about creating real change through legislation and policy – law is the career for you. You'll learn about the principles underlying the Australian legal system while also advocating for legal rights on local, national and global issues. As Australia's leading clinical law school, the Legal Centre at the University of Newcastle's School of Law and Justice provides you with the practical legal training and supervised clinical legal experience needed to practice as an Australian lawyer without any further study.

Discover Law degrees

#1

in Australia for overall satisfaction for undergraduate Law and Paralegal Studies students[1]

#2

in Australia for learning resources satisfaction for undergraduate Law and Paralegal Studies students[1]

89.2%

of undergraduate Law and Paralegal Studies graduates found employment within four months[2]

Degree options

Bachelor of Criminology
Bachelor of Laws (Honours) Combined

1 Student Experience Survey 2019-2020.
2 Graduate Outcomes Survey 2019-2021.

Studying at Australia's leading clinical law school, Sophia knew she was in the right place to build her experience and jump in headfirst when she graduates as a lawyer.

"Studying at the University of Newcastle has given me an amazing opportunity to gain valuable skills and knowledge through the variety of courses that the Law School offers.

I've experienced firsthand how to communicate and liaise with clients by participating in the University of Newcastle's Free Legal Clinic which offers legal aid and support to community members. And I've been able to develop my court room practice through various learning experiences that involved real word legal scenarios."

In addition to her practical experience, Sophia's involvement in the University of Newcastle's Law Students' Association allows her to network and build a supportive community around her.

Sophia
Bachelor of Criminology/
Bachelor of Laws (Honours)

Check out
Sophia's story

"What I love the most about my university experience is discovering new and inspiring ideas. The content of my degrees goes well beyond what I ever expected. I am majoring in Economics and taking many finance electives alongside it, exploring concepts and theories to explain how the world and society works. I have also made some invaluable friendships – hopefully to last a lifetime."

Eduardo
Bachelor of Commerce/Bachelor of Laws (Honours)

Bachelor of

Criminology

2023 Selection Rank	Duration
62.00 | Median 71.53	3 yrs FT / 8 yrs PT

UAC code	Location
484895	Newcastle – Callaghan

Recommended studies English (Advanced) and Mathematics (Standard or Advanced) (for Psychology Studies major)

If you're interested in how individuals and societies are regulated, legal, psychological and social responses to crime, and preventing crime, the Bachelor of Criminology is for you. This program draws on Criminology, Psychology and Legal Studies to give you an in-depth understanding of crime, with a strong focus on social justice. This is a practical, hands-on degree that will qualify you to work in criminal justice and allied fields, including careers in law enforcement, courts and corrections, policy, victim's advocacy, human welfare and more.

What you will study

A practical program that will provide you with the knowledge and skill set to work in criminal justice and allied fields. You will develop a foundational knowledge of Criminology through core courses that will introduce you to all aspects of crime, including criminal justice, victimology, power relationships between institutions of the state and citizens, and criminal psychology, as well as a placement course (internal or external) to gain practical experience.

Majors offered:

- Legal Studies
- Psychology Studies

Practical experience

Practical learning is embedded into every stage of the Bachelor of Criminology, from case studies in class to guest lectures and work placements.

All students will undertake a core placement course in their third year (internal or external) relevant to their career aspirations.

Career opportunities

The Bachelor of Criminology will offer a clear and attractive degree pathway for students looking to move into careers such as:

- Courts and corrections
- Human welfare
- Law enforcement
- Policy
- Victim advocacy

Combine this degree with

- Bachelor of Laws (Honours) Combined
- Bachelor of Psychological Science

See the website for more information about this degree

Bachelor of

Laws (Honours) Combined

2023 Selection Rank	Duration
85.00 | Median 92.90	5 yrs FT

UAC code	Location
483100	Newcastle – Callaghan and City campus

Our Bachelor of Laws (Honours) Combined degree is your entry to a career as a lawyer, or a range of other professions where a passion for justice and attention to detail are key. This degree is offered as a combined program, which means you'll undertake your degree in conjunction with another degree and receive two qualifications in only five years of study. The School of Law and Justice runs a unique Practice Program that integrates the academic study of law with hands-on clinical experience and practical training. Students work with real clients under the supervision of legal practitioners at the University of Newcastle Legal Centre.

What you will study

Whether you choose to practise law or pursue another career, the skills and extensive knowledge you acquire through this combined degree will be invaluable. You will graduate with skills and experience in:

- Administrative law
- Advanced research
- Advocacy
- Analytical problem solving
- Contract law
- Criminal law and procedure
- Equity and trusts
- Evidence
- High-level task management
- Negotiation
- Oral and written communication
- Property law

Practical experience

The University of Newcastle's School of Law and Justice is Australia's leading clinical law school and has a strong focus on experiential learning. This gives you the opportunity to work with real clients and cases during your studies. Through the School of Law and Justice, you'll have the opportunity to:

- Work with clients in the University of Newcastle Legal Centre
- Undertake work placements
- Complete an international immersion tour
- Work at the Legal Centre's renowned annual summer clinic, Law on the Beach
- Take part in public interest clinics in social justice and environmental law

Career opportunities

The following list provides some example jobs available to graduates of a Bachelor of Laws. Some of these jobs will depend on the amount and level of study undertaken, level of experience, the combination of other majors and electives studied, while some may require further study.

- Barrister
- Compliance Officer
- Corporate Lawyer
- Law Clerk/Paralegal
- Legal Aid Lawyer
- Political Advisor
- Solicitor

Professional recognition

Our Bachelor of Laws is accredited by the Legal Profession Admission Board (LPAB) of New South Wales.

Combine this degree with

- Bachelor of Arts
- Bachelor of Business
- Bachelor of Commerce
- Bachelor of Media and Communication
- Bachelor of Criminology
- Bachelor of Development Studies
- Bachelor of Global Indigenous Studies
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Psychological Science
- Bachelor of Science
- Bachelor of Social Science
- Diploma of Legal Practice

Combined degrees may have differences in selection ranks, durations and other criteria. Please see the website for specific information about each combined degree.

See the website for more information about this degree

Combined degrees

Bachelor of Arts/Bachelor of Laws (Honours)

Broaden your understanding of legal issues by seeing them within a wider context. This combination will complement your legal knowledge with an awareness of the social context of the law.

Bachelor of Biomedicine/Bachelor of Laws (Honours)

Graduates of the Bachelor of Biomedicine are trained in basic knowledge of the structure and function of living organisms with particular focus on the human. Using this knowledge, together with problem solving skills, critical reasoning and scientific methods taught in the program, the graduate is well prepared to collaborate on scientific investigations.

Bachelor of Business/Bachelor of Laws (Honours)

Experience in law is a valuable asset within the business sector. Develop your skills and forge a career as a corporate or in-house lawyer.

Bachelor of Commerce/Bachelor of Laws (Honours)

Combine your background in commerce with a degree in law to improve your knowledge of important legislation that is relevant to accounting, finance and economics.

Bachelor of Media and Communication/Bachelor of Laws (Honours)

Some of the most powerful and influential forces within our society are the media and communication technologies. Combine this degree with law and be at the forefront of constantly developing laws and regulations that impact the communication and media industries.

Bachelor of Criminology/Bachelor of Laws (Honours)

Graduates of this combined program can analyse and explain crime and criminality from multiple disciplinary perspectives, and use high level problem-solving and communication skills to act as advocates in the criminal justice system. Having completed placements and work-integrated learning in diverse contexts, they are work-ready and equipped to advocate for a range of stakeholders, and to address legal and social issues that shape the administration of justice in criminal law and related institutions.

Bachelor of Criminology/Bachelor of Psychological Science

Students will apply knowledge of human behaviour to a wide range of fields within the criminal justice area, but will also enable students to continue their professional training in psychology. This program prepares for a career as a psychologist or specialise in such areas as forensic psychology, clinical psychology and other accredited psychology postgraduate pathways.

Bachelor of Development Studies/Bachelor of Laws (Honours)

Law complements a range of professions where a passion for justice and attention to detail are key. By combining this degree with a Bachelor of Development Studies, you will be able to advocate for change and make a real difference in issues like development, poverty and inequality.

Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours)

You will develop an understanding of the social, political and justice issues impacting the Indigenous community of Australia and use your skills to solve legal challenges in Indigenous affairs and beyond.

Bachelor of Innovation and Entrepreneurship/ Bachelor of Laws (Honours)

This combination is for people who are interested in turning big ideas into new ventures, with the added understanding of the surrounding legal environment.

Bachelor of Psychological Science/Bachelor of Laws (Honours)

Within this combined degree program, students study a combination of psychological science and law courses over a period of five years full-time.

Bachelor of Science/Bachelor of Laws (Honours)

Apply your scientific knowledge to a range of legal contexts including industry, agriculture and the information revolution.

Bachelor of Social Science/Bachelor of Laws (Honours)

The Bachelor of Social Science combination is ideal if you are interested in improving social justice, anti-discrimination and human rights.

Science and the Environment

There's no one type of scientist. Career opportunities are exciting and always evolving. You might work in a lab, discovering life-changing scientific breakthroughs. You could work in science education, sharing your passion and knowledge with the next generation. Maybe you see yourself using science to shape government policy – or something else entirely. A science degree gives you the flexibility to explore your interests and make an impact through the pathway that's right for you.

Discover Science and the Environment degrees

Ranked 38

in the world – Sports Science[1]

Top 200

in the world – Geography[2]

Top 300

in the world – Life Sciences[3]

Degree options

Bachelor of Biotechnology
Bachelor of Climate Science and Adaptation
Bachelor of Coastal and Marine Science
Bachelor of Environmental Science and Management
Bachelor of Exercise and Sport Science
Bachelor of Food Science and Human Nutrition
Bachelor of Psychological Science
Bachelor of Psychological Science (Advanced)
Bachelor of Science
Bachelor of Science (Advanced)
Diploma in Environmental Science
Diploma in Science

Also consider

Bachelor of Chemical Engineering (Honours)
Bachelor of Development Studies
Bachelor of Environmental Engineering (Honours)
Bachelor of Medical Engineering (Honours)
Bachelor of Renewable Energy Engineering (Honours)

1 ShanghaiRanking's Global Ranking of Sport Science Schools and Departments 2022.
2 ShanghaiRanking's Global Ranking of Academic Subjects 2022.
3 Times Higher Education World University Rankings by Subject 2023.

Boasting stretches of pristine beaches along Newcastle and the Central Coast's iconic coastline, it's no surprise Eliza chose to study her Bachelor of Coastal and Marine Science at the University of Newcastle.

The hands-on nature of her degree has afforded Eliza a number of once-in-a-lifetime experiences that she's excited to take into her future endeavours.

"My experience at the University of Newcastle has been very hands-on and has allowed me to pursue a variety of my passions. My understanding of course concepts has been deepened by numerous field trips, work-integrated learning and the amazing lecturers I have been fortunate enough to work alongside.

A highlight has definitely been receiving a scholarship which allowed me to travel internationally to Borneo, Indonesia, and experience work as a research assistant with leading lecturers over the summer. A trip that was just incredible!"

Eliza
Bachelor of Coastal and Marine Science

Check out Eliza's story

"I started volunteering at a research lab at the University about halfway through my degree, and the experience I gained will go a long way to help getting me a job related to psychology."

Bill
Bachelor of Psychological Science

"Here I have the flexibility and employment opportunities to achieve my dream. I've found work on campus, and can study as much or as little as I want, on or off campus."

Michael
Bachelor of Psychological Science

Bachelor of
Biotechnology

2023 Selection Rank	Duration
65.00 | Median 69.45	3 yrs FT / 8 yrs PT

UAC code	Location
482150	Newcastle – Callaghan

Assumed knowledge	Mathematics (Advanced) and Chemistry
Recommended studies	Biology and Physics

Imagine using living organisms to modify products for the better. Biotechnology harnesses the natural biochemical and genetic processes of living organisms to benefit the modern world When you study a Bachelor of Biotechnology, you'll help to develop technologies that improve our communities and the health of our planet. You might even be the researcher that develops a super crop that can survive harsh climates and feed the hungry. The products of biotechnology are all around us and you can be at the forefront of scientific development and discovery. Undertake 10 weeks of full-time industry placement to become a job-ready graduate upon completion of your degree. Graduates may apply for membership to AusBiotech, the Australia Institute of Biology, and the Australian Society of Biochemistry and Molecular Biology.

What you will study
Our academics are internationally recognised as leaders in their fields and are working to solve real-world problems. Under their leadership, you will focus on the application of DNA and cell technologies on human health, plant and animal agriculture and the environment.

Core studies include:

- Biochemistry
- Biomolecules
- Cellular biotechnology
- Laboratory skills in biological systems
- Microbiology
- Molecular biology
- Molecular genetics
- Statistics for the sciences

Practical experience
Embark on a global experience – develop a global mindset, diversify your skill set and build your international network with virtual study options or travel abroad and undergo a semester exchange, short course, internship or study tour to enhance your program. This degree offers a 10-week full-time industrial placement. A feature of this degree is the separate courses focusing on laboratory skills, which provide students with hands-on experience.

Career opportunities
Biotechnology is predicted to be a key for solving global issues in the future, such as human and animal diseases, climate change, fuel alternatives and food security.

You could go into a career as a:

- Biochemist
- Biotechnologist
- Clinical Research Coordinator
- Geneticist
- IVF Embryologist
- Laboratory Analyst
- Microbiologist
- Pharmaceutical Scientist
- Research Scientist
- Scientific Patent Examiner/ Technical Advisor
- Tissue Culture Technician

Professional recognition
Our graduates can apply for membership to Aus Biotech and specialist societies such as the Australian Institute of Biology, and the Australian Society of Biochemistry and Molecular Biology. These societies provide access to a large network of biologists who have regular events to help members share knowledge and collaborate.

See the website for more information about this degree

Bachelor of
Climate Science and Adaptation

2023 Selection Rank	Duration
65.00 | Median 79.63	3 yrs FT / 8 yrs PT

UAC code	Location
484875	Newcastle – Callaghan

Assumed knowledge	Mathematics (Standard)
Recommended studies	At least one of Biology, Chemistry, Earth and Environmental Science or Physics

The impacts of climate variability and climate change are affecting our lives like never before. The Bachelor of Climate Science and Adaptation is a specialised degree which will allow you to turn your passion into practice. It will provide you with fundamental tools to tackle the many challenges associated with quantifying and dealing with climate-related risks. You will learn how to assess the impacts of climate variability and change. You will also learn how to develop adaptation strategies (e.g. infrastructure, planning policy) that not only reduce the economic, environmental, and social costs of climate hazards, but are also optimal and robust across a range of plausible futures. As part of this degree, you have the opportunity to tailor your studies to meet your career aspirations through elective pathways. Complete a major capstone project in your final year of study.

What you will study
This program incorporates courses from multidisciplinary study areas and provides a broad range of elective pathways to complement your career aspirations.

Key areas of study include:

- Climate and energy
- Climate change and resource management
- Earth processes (including climatic, hydrological, coastal, soil)
- Environmental sustainability
- Human geography
- Risk, vulnerability, adaptation, and resilience
- Spatial science
- Statistics
- Water, energy and food security

As part of this degree, you can tailor your studies to meet your career aspirations through elective pathways

Practical experience
Students will undertake 140 hours of work-integrated learning placement.

You'll have access to world-class facilities and novel technologies to help develop your research and multidisciplinary skills in preparation for entering the career market.

Career opportunities
Graduates of the Bachelor of Climate Science and Adaptation can go on to work in a diverse range of areas including:

- Air quality control
- Climate action and resilience
- Climate and energy
- Climate change operations
- Climate change policy
- Climatology
- Ecology
- Energy and resources
- Environmental impact and assessment
- Laboratory and research work
- Meteorology

See the website for more information about this degree

Bachelor of

Coastal and Marine Science

2023 Selection Rank	Duration
65.00 | Median 72.74	3 yrs FT / 8 yrs PT

UAC code	Location
484026	Newcastle – Callaghan
484036	Central Coast – Ourimbah
Assumed knowledge	Mathematics (Standard)
Recommended studies	At least one of Biology, Chemistry or Earth and Environmental Science

Are you a lover of the ocean? A passionate conservationist who wants to make sure our marine environment is sustained for years to come? Australia is home to some of the most unique and diverse coastlines and marine ecosystems in the world and we need to make sure they remain protected. By understanding the conservation and management issues they face – such as climate change, pollution and overfishing – we can help find solutions to these problems. When you study a Bachelor of Coastal and Marine Science, you'll be learning from experts in marine, coastal and ecological fields – giving you practical skills to make a difference in our world. Through professional pathways, students can tailor their program to meet their career aspirations. By engaging with work-integrated learning, students can gain recognised certifications such as boat, radio operator and drone licenses.

What you will study

The Bachelor of Coastal and Marine Science has been designed to provide students with the fundamental skills needed for a career in coastal and marine science which can be complemented by up to two minors, from either the traditional sciences, or alternatively, non-traditional areas such as social science or communication. As such the program will provide graduates with unique skill sets and job opportunities not offered elsewhere.

You can choose to study in areas such as:

- Animal biology
- Biodiversity and conservation
- Cell and molecular biology
- Chemistry
- Coastal and surface processes
- Communication
- Education studies
- Environmental regulation
- Environmental science
- Environmental toxicology and health
- Food science
- Geography
- Indigenous environmental and community practice
- Microbiology
- Plant biology
- Public and community health
- Riparian restoration and sustainability
- Social science
- Sustainability
- Tourism and event management
- Water and resource management

Practical experience

You'll have access to world-class facilities and participate in lab work to help develop your analytical, research and communication skills. You'll have the opportunity to engage in 140 hours of work-integrated learning (WIL) and gain recognised certifications such as a boat license, radio operator license, and drone and remotely operated vehicle operation. Together this learning will ensure you have skills that are highly sought after by industry and government.

Career opportunities

The flexible structure of this degree allows students to pursue careers that span all sectors of the marine and coastal industry. Some career examples include:

- Animal Biologist
- Botanist
- Coastal and Marine Park Governance
- Compliance Officer
- Conservationist/Ecologist
- Ecotourism
- Fisheries Technician or Research Assistant
- Geographer
- Marine Biologist
- Marine Scientist
- Oceanographer
- Sustainability Officer
- Waterways and Coastal Officer

See the website for more information about this degree

Bachelor of

Environmental Science and Management

2023 Selection Rank	Duration
65.00 | Median 78.05	3 yrs FT / 8 yrs PT

UAC code	Location
482750	Newcastle – Callaghan
482760	Central Coast – Ourimbah
Assumed knowledge	Mathematics (Advanced) and at least one of Chemistry, Biology or Earth and Environmental Science

If you want to contribute to solving the environmental problems facing our society, and have a passion for sustainability, then the Bachelor of Environmental Science and Management is for you. The University of Newcastle is centrally situated to give you hands-on experience in areas of vast environmental diversity, from terrestrial landscapes, to wetlands and coastal zones. We offer the perfect environment for you to gain an understanding of the critical issues placing a growing strain on the Earth's natural resources, such as climate change, human impacts, and the biodiversity crisis, and develop tactics to combat them. Diversify your study experience by choosing one of four environmental science majors and undertaking 140 hours of work placement in your final year of study.

What you will study

Environmental science and management incorporates courses from several majors including biology, sustainability, chemistry, geology and the social sciences to understand human impacts on the environment and to develop ways to address these problems.

Students can choose from one of the following majors study areas to specialise in:

- Ecosystems and Biodiversity
- Marine Science and Management
- Natural Resources and Hazards
- Sustainability

Students will develop skills in:

- Biological and earth processes
- Conservation and restoration
- Environmental planning and impact assessment
- Environmental values, sustainability and ethics
- Land management
- Remote sensing and computer-based mapping
- Sampling and data analysis
- Social development and the environment

Practical experience

From the first week of your degree you will gain real-world experience through fieldwork in a range of settings and environments. You will learn and build your skills in a number of key environmental locations, including mining areas, national parks, urban developments, major waterways and coastal zones.

Your fieldwork is complemented by practical lab work where you have the opportunity to use professional equipment found in the workplace. In the final year of your degree, you will undertake 140 hours of work-integrated learning (WIL) experience in a private sector, government or community organisation.

Career opportunities

Some typical positions include:

- Botanist/Plant Scientist
- Climatologist
- Coastal Management Officer
- Environmental Consultant
- Environmental Health/ Sustainability Officer
- Geologist
- Marine Scientist
- Oceanographer
- Science Teacher
- Scientific Park Ranger
- Water Resource Management Specialist
- Zoologist

Professional recognition

Depending on your area of study you can gain professional recognition with the Hunter Environmental Institute, Australian Ecology Society, Australian Wildlife Management Society, Birds Australia, Australian Mammal Society, Australian Society of Herpetology.

Combine this degree with

- Bachelor of Business

See the website for more information about this degree

Bachelor of

Exercise and Sport Science

2023 Selection Rank	Duration
63.00 | Median 72.55	3 yrs FT / 8 yrs PT

UAC code	Location
482800	Central Coast – Ourimbah

Assumed knowledge	At least two of Biology, Chemistry, Mathematics (Advanced) or Physics
Recommended studies	Personal Development, Health and Physical Education (PDHPE)

People exercise for a range of reasons, from maintaining or improving health and fitness, to improving performance in recreational or elite sports. Exercise and sport science is an inspiring and rapidly evolving field that explores how best to prescribe and deliver exercise for health and performance benefits. When you study a Bachelor of Exercise and Sport Science at the University of Newcastle, you will benefit from a comprehensive approach to learning about all aspects of physical health for the entire population. We have a globally recognised Bachelor of Exercise and Sport Science program that encompasses all aspects of physical health, delivered through a combination of online and face-to-face teaching. Graduates of this program are eligible for accreditation with Exercise and Sport Science Australia.

What you will study

Some of the courses you will complete focus on:

- Biomechanics
- Exercise physiology
- Exercise testing and prescription
- Functional anatomy
- Growth, development and ageing
- Motor control and learning
- Performance psychology
- Physical activity and health
- Professional practice
- Sports nutrition

Practical experience

This degree is offered at our Central Coast (Ourimbah) campus where you have access to world-class facilities including high-quality laboratories, state-of-the-art equipment and a fully equipped gym.

You will be provided with opportunities to gain valuable work experience in the sport and fitness industry through our professional placement program. In addition to placement with gyms, clinics and hospitals, we also have strong ties with the Central Coast Mariners Football Club, the Newcastle Jets Football Club and the Newcastle Knights Rugby League Club to ensure interesting and dynamic placement opportunities.

Career opportunities

Our graduates have great employment prospects with 90.9% securing employment within four months of finishing their degree. A wide range of Career opportunities are available with some typical roles including:

- Exercise Rehabilitation/Injury Management Advisor
- Exercise Scientist
- Player Development Manager
- Research Scientist
- Sports Administrator
- Sports Development Officer

Professional recognition

Graduates are eligible for accreditation with Exercise and Sport Science Australia (ESSA).

See the website for more information about this degree

Bachelor of

Food Science and Human Nutrition

2023 Selection Rank	Duration
65.00 | Median 78.93	3 yrs FT / 8 yrs PT

UAC code	Location
482900	Central Coast – Ourimbah

Recommended studies	Chemistry, Biology and Mathematics (Standard)

As new challenges and trends in society drive change in our food systems, the specialty areas of food science and human nutrition require people with a passion for innovative thinking. As a food and nutrition scientist, you could work with fresh or processed foods, developing new products, or analysing existing ones, to ensure that they are nutritionally balanced, safe to eat, environmentally friendly, cost-effective and desirable to purchase. Our purpose-built food science facilities at the Central coast campus include a modern food innovation centre and sensory lab which will allow you to analyse and test food quality as well as develop new food products.

What you will study

Graduates develop a strong foundation of the principles underlying the sciences of food technology and nutrition. This includes science, chemistry and biology of nutrients, and the attributes of foods including food commodities and functional foods.

You will study topics including:

- Biology and biochemistry
- Biomedical science
- Chemistry
- Essential nutrients
- Food analysis
- Food marketing and consumer behaviour
- Food product development
- Food safety and microbiology
- Food technologies
- Food trends and innovation
- Nutrition in health and disease
- Plant and animal food products

Practical experience

Offered from our Central Coast campus (Ourimbah), you will train in the University's Food Innovation Kitchen and Laboratory. You will design, test and analyse food products throughout the degree including labeling, marketing, nutritional and chemical composition, food safety and sensory analysis. Students will undertake 140 hours of work-integrated learning placement.

Career opportunities

Graduates of our Food Science and Human Nutrition degree are in high demand. The industry is rapidly growing as society becomes more conscious of the role that food plays in health and environmental challenges.

The experience, specialist knowledge and skills you learn will prepare you for a successful career in the food science, health and nutrition industries. Some typical roles after you graduate include:

- Catering Manager
- Community Health
- Flavorist
- Food Biotechnology
- Food Inspector
- Food Manufacturing Industry
- Food Product Developer
- Food Scientist Technologist or Chemist
- Government and Food Industry Regulation
- Health Promotion Officer
- Nutrition Consultant (Sport Nutritionist)
- Nutritionist
- Quality Assurance or Control Officer

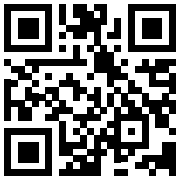
Professional recognition

Graduates will be eligible to apply for membership with the Australian Institute of Food Science and Technology (AIFST) and/or the Nutrition Society of Australia (NSA).

Graduates will also be able to register as an Associate Nutritionist (ANutr), a register of Nutritionists established by the NSA, and apply for Registered Nutritionist status (RNutr) following sufficient industry experience.

Combine this degree with

- Bachelor of Business



See the website for more information about this degree

Bachelor of

Psychological Science

2023 Selection Rank	Duration
65.00 | Median 69.09	3 yrs FT / 8 yrs PT

UAC code	Location
483970	Newcastle – Callaghan
483980	Central Coast – Ourimbah
Assumed knowledge	Mathematics (Advanced)
Recommended studies	Biology

Psychology is the scientific study of human behaviour, the human brain and its effect on the way we act and why. Our understanding of human behaviour is used to solve practical problems that will positively impact the lives of others. This fascinating area of study covers a broad range of areas such as mental illness, interventions, the biology of the brain, memory, decision making, as well as developmental, social and personality studies. This degree can be applied in a broad range of industry sectors, enabling you to choose the career path that's right for you.

What you will study

In your first year, you will examine the influences on behaviour and personality plus the mechanisms of behaviour such as emotions, perception, learning and memory.

Throughout the degree you will learn about:

- Clinical and abnormal behavior
- Cognition and information processing
- Developmental psychology
- Neuroscience
- Perceptual processes and learning theory
- Psychological research methodology
- Psychopharmacology
- Social psychology and personality
- Statistics

High-achieving students will have the option to study Honours.

Practical experience

Students will undertake 140 hours of work-integrated learning placement. You will have access to psychology labs and the psychology clinic to enhance your practical skills and theoretical studies.

Additional work-integrated learning may include cross-institutional collaboration, Psychology Biomedical Science and HMRI Research labs, the University of Newcastle Psychology Community Clinic and external professional agencies.

If you choose to do a fourth year of Honours you will conduct a major research project on a specific area of psychology.

Career opportunities

Examples of roles include:

- Careers Counsellor
- Case Manager
- Case Worker
- Juvenile Justice Officer
- Market Researcher
- Mediator
- Practicing Psychologist
- Research Scientist

After successful completion of this degree, graduates can:

- Work with the law, police services and in correctional services
- Work in the NDIS area or other NGOs providing care
- Work in many areas that relate to psychology
- Undertake further study

Professional recognition

This degree is accredited by the Australian Psychology Accreditation Council and approved by the Psychology Board of Australia.

Upon completion of an APAC accredited undergraduate degree, students who go on to complete the Honours psychology will be eligible for provisional registration as a psychologist with the Psychology Board of Australia. Please note that after completion of an APAC accredited undergraduate degree, a further minimum of three years education and training in psychology is required to register as a psychologist in Australia.

Combine this degree with

- Bachelor of Business
- Bachelor of Media and Communication
- Bachelor of Criminology
- Bachelor of Laws (Honours) Combined
- Bachelor of Social Science

See the website for more information about this degree

Bachelor of

Psychological Science (Advanced)

2023 Selection Rank	Duration
90.00 | Median 96.65	3 yrs FT / 8 yrs PT

UAC code	Location
483975	Newcastle – Callaghan
Recommended studies	Biology and Mathematics (Advanced)

The University of Newcastle's Bachelor of Psychological Science (Advanced) uses science to understand how people think, feel and behave. This degree is for those that are inspired to build new knowledge and discover new things using a variety of scientific methods. With this program, join a high achieving cohort that you will study alongside through a series of specifically designed advanced courses. This fascinating and evolving field will prepare you to work in a broad range of industries where you can positively impact the lives of others.

What you will study

The Bachelor of Psychological Science (Advanced) covers a wide range of subject areas. In your first year you will examine the influences on behaviour and personality plus the mechanisms of behaviour such as emotions, perception, learning and memory. Second year expands on all core areas with a focus on mental health and interventions, while in third year you will study core topics with a focus on applications of theory.

Throughout the degree you will learn about:

- Clinical and abnormal behaviour
- Cognition and information processing
- Developmental psychology
- Neuroscience
- Perceptual processes and learning theory
- Psychopharmacology
- Research methodology
- Social psychology and personality
- Statistics

High achieving students will have the option to study Honours.

Practical experience

The Bachelor of Psychological Science (Advanced) offers work and research-integrated learning, as you will apply your studies to complete a major transdisciplinary capstone project throughout your third year.

Students will undertake 140 hours of work-integrated learning placement.

If you choose to do a fourth year of Honours you will conduct a major research project on a specific area of psychology.

Career opportunities

Examples of roles include:

- Careers Counsellor
- Case Manager
- Case Worker
- Juvenile Justice Officer
- Market Researcher
- Mediator
- Practicing Psychologist
- Research Scientist

After successful completion of this degree, graduates can:

- Work with the law, police services and in correctional services
- Work in the NDIS area or other NGOs providing care
- Work in many areas that relate to psychology
- Undertake further study

Professional recognition

This degree is accredited by the Australian Psychology Accreditation Council and approved by the Psychology Board of Australia.

Upon completion of an APAC accredited undergraduate degree, students who go on to complete the Honours psychology will be eligible for provisional registration as a psychologist with the Psychology Board of Australia. Please note that after completion of an APAC accredited undergraduate degree, a further minimum of three years education and training in psychology is required to register as a psychologist in Australia.

See the website for more information about this degree

Bachelor of
Science

2023 Selection Rank	Duration
65.00 | Median 75.75	3 yrs FT / 8 yrs PT

UAC code	Location
484020	Newcastle – Callaghan
484030	Central Coast – Ourimbah
Assumed knowledge	Mathematics (Advanced)
Recommended studies	At least one of Biology, Chemistry, Physics or Earth and Environmental Science

Science is about asking new questions – and then answering them. The immense field of science is exciting and always evolving. It underpins areas such as technology, industry, business, agriculture, environment, research and development, health, and the information revolution. The Bachelor of Science gives you the opportunity to learn from leading science researchers who will guide you through a tailored program, specifically designed to give you the skills that employers are seeking. Develop practical business and communication skills that will complement and enhance your science knowledge. Build networks and communication skills with opportunities to participate in work-integrated learning (WIL) and industry engagement.

What you will study
Using the latest scientific developments and advancements, you will learn first-hand from our actively involved researchers how to deliver innovative solutions for real-world problems. Choose from 10 majors across eight disciplines to shape your study experience to suit your interests. You can combine a mix of majors and electives to suit your study direction.

You can choose to study in areas such as:

- Biodiversity and Conservation
- Biological Sciences
- Chemistry (Advanced Materials or Medicinal and Organic)
- Earth science
- Geography
- Mathematics
- Physics
- Psychology
- Statistics

Practical experience
Students will have access to world-class facilities including our nanoscience and chemistry laboratories and mathematics grid room. Throughout your degree you'll participate in lab work to help develop your analytical, research and communication skills. From the first week of your degree you will be in the field, as we use the campus as our personal living laboratory. Students will undertake 140 hours of work-integrated learning placement.

Career opportunities
The flexible structure of this degree can lead to careers such as:

- Chemist
- Climatologist
- Conservationist/Ecologist
- Geographer
- Marine Biologist
- Mathematician
- Microbiologist
- Neuroscientist
- Oceanographer
- Physicist

Professional recognition
Graduates who complete the accredited Physics major are eligible for accreditation through the Australian Institute of Physics (AIP). Graduates who complete the accredited Statistics major are eligible for accreditation on becoming a member of the Statistical Society of Australia.

Combine this degree with
- Bachelor of Arts
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Environmental Engineering (Honours)
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Laws (Honours) Combined
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)

See the website for more information about this degree

Bachelor of
Science (Advanced)

2023 Selection Rank	Duration
90.00 | Median 94.20	3 yrs FT / 8 yrs PT

UAC code	Location
484025	Newcastle – Callaghan
Assumed knowledge	Mathematics (Advanced)
Recommended studies	Mathematics, and at least one of Biology, Chemistry, Physics or Earth and Environmental Science

The University of Newcastle's Bachelor of Science (Advanced) is for those who are interested in understanding the world around us, how it works, and are inspired to build new knowledge and discover new things. In today's society, scientists need to work across research, industry and discipline boundaries to create solutions to the world's most complex issues. You might work in a lab, discovering life-changing scientific breakthroughs, or use science to shape government policy. The Bachelor of Science (Advanced) will allow you to join a high achieving cohort and create your own academic adventure. Tailor your majors and professional pathways to achieve your career goals. You'll have access to specialised mentoring and opportunities to participate in work-integrated learning (WIL) and industry engagement.

What you will study
Using the latest scientific developments and advancements, you will learn first-hand from our actively involved researchers how to deliver innovative solutions for real-world problems. Choose from 10 majors across eight disciplines to shape your study experience to suit your interests. You can combine a mix of majors and electives to suit your study direction.

You can choose to study in areas such as:

- Biodiversity and Conservation
- Biological Sciences
- Chemistry (Advanced Materials or Medicinal and Organic)
- Earth science
- Geography
- Mathematics
- Physics
- Psychology
- Statistics

Practical experience
Students will have access to world-class facilities including our nanoscience and chemistry laboratories. Throughout your degree you'll participate in lab work to help develop your analytical, research and communication skills. Students will undertake 140 hours of work-integrated learning placement.

Career opportunities
Science education is highly valued, and graduates can apply their science training in varied careers beyond science. The flexible structure of this degree can lead to careers such as:

- Animal Biologist
- Botanist
- Chemist
- Climatologist
- Conservationist/Ecologist
- Geographer
- Geologist
- Marine Biologist
- Mathematician
- Microbiologist
- Neuroscientist
- Oceanographer
- Physicist
- Statistician

Professional recognition
Graduates who complete the accredited Physics major are eligible for accreditation through the Australian Institute of Physics (AIP). Graduates who complete the accredited Statistics major are eligible for accreditation on becoming a member of the Statistical Society of Australia.

See the website for more information about this degree

Diploma in
Environmental Science

2023 Selection Rank	Duration
50.00 | Median 56.78	1 yr FT / 4 yrs PT

UAC code	Location
489829	Newcastle – Callaghan
489830	Central Coast – Ourimbah

If you have a passion for science, sustainability and want to play a part in solving the environmental problems facing our society, then the Diploma in Environmental Science is a great place to start. You'll learn to understand and combat the critical issues placing a growing strain on the earth's natural resources such as climate change, human impacts, and the biodiversity crisis. Choose to study across a range of disciplines including ecosystems, human geography, oceans and environmental values and ethics.

What you will study

The Diploma in Environmental Science has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas within our Environmental Science and Management, Climate Science and Adaptation or Coastal and Marine Science degrees. The Diploma in Environmental Science offers a guaranteed entry pathway into the Bachelor of Environmental Science and Management, the Bachelor of Climate Science and Adaptation, or the Bachelor of Coastal and Marine Science.

Study areas:

- Climate Science
- Coastal and Marine Science
- Environmental Science
- Science and the Environment

Why study with us

- **Guaranteed degree entry –** Complete the Diploma in Environmental Science and receive guaranteed entry into the Bachelor of Climate Science and Adaptation, the Bachelor of Coastal and Marine Science, the Development Studies, or the Bachelor of Environmental Science and Management.
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different environmental science disciplines with our directed course list.

Career opportunities

Professionals in Science work in a large range of areas including:

- Earth sciences (including geology)
- Environmental health and sustainability
- Environmental impact and assessment
- Environmental science
- Laboratory and research work
- Marine biology
- Mining and exploration
- Teaching
- Urban and regional planning
- Writing

See the website for more information about this diploma

Diploma in
Science

2023 Selection Rank	Duration
50.00 | Median 57.34	1 yr FT / 4 yrs PT

UAC code	Location
489822	Newcastle – Callaghan
489823	Central Coast – Ourimbah

If you have a passion for science and want to explore your interests further and make an impact, then the Diploma in Science is a great place to start. Through fieldwork and lab work you'll have plenty of opportunities to help make life-changing discoveries. Choose to study across a range of disciplines including biodiversity and conservation, biology, biotechnology, chemistry, food science, geography, earth science and psychology.

What you will study

The Diploma in Science has been designed to give you a core knowledge base where you'll learn academic literacy, research and discipline-specific skills needed for further study. You'll complete a short list of directed courses, providing you with a taste of discipline areas including biodiversity and conservation, biology, biotechnology, chemistry, food science, geography, earth science and psychology. The Diploma in Science offers a guaranteed entry pathway into the Bachelor of Science, the Bachelor of Biotechnology, the Bachelor of Food Science and Human Nutrition, or the Bachelor of Psychology.

Study areas:

- Biology
- Biotechnology
- Chemistry
- Environmental science
- Food science
- Nutrition
- Physics
- Plant science
- Psychological science
- Psychology
- Science

Why study with us

- **Guaranteed degree entry –** Complete the Diploma in Science and receive a guaranteed entry into the Bachelor of Biotechnology, the Bachelor of Food Science and Human Nutrition, the Bachelor of Science, or the Bachelor of Psychological Science.
- **Receive credit –** Receive up to 80 units credit towards an undergraduate degree.
- **No extra time or cost –** Depending on which degree you would like to move into after the Diploma, it may be possible to complete your degree in the standard, minimum timeframe. Also, for any courses for which you receive credit, you don't have to pay for those again once you get into your degree.
- **Extensive Support –** Gain additional support through pathways courses which develop foundational degree skills in smaller class sizes. The support offered in a Diploma helps students transition into larger classes alongside undergraduate students and experience study as you would in an undergraduate degree program.
- **Diversify your skills and knowledge –** Get a taste of the different science disciplines with our directed course list.

Career opportunities

There's no one type of scientist and career opportunities are always evolving. You might work in a lab, discovering life-changing scientific breakthroughs. You could work in science education, sharing your passion and knowledge with the next generation. Maybe you see yourself using science to shape government policy, or something else entirely. Science gives you the flexibility to explore a path that's right for you.

See the website for more information about this diploma

Combined degrees

Bachelor of Arts/Bachelor of Science
Through the sciences you will be inspired to build new knowledge and discover new things. Through the arts you will explore ideas, theories and records of how people process the human experience through society, culture, and more.

Bachelor of Chemical Engineering (Honours)/Bachelor of Science
Deepen your technical skills with comprehensive chemistry courses which are available in the Bachelor of Science. Chemistry is fundamental to chemical engineering and a deeper knowledge of this science can open up opportunities in toxicology, pharmacy, biochemistry, bioengineering, forensics and research.

Bachelor of Computer Systems Engineering (Honours)/ Bachelor of Science (Physics major)
Deepen your technical skills with comprehensive physics courses which are available in the Bachelor of Science. Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Criminology/Bachelor of Psychological Science
Combining the study of criminology with an accredited 3-year psychological science degree will allow students to apply knowledge of human behaviour to a wide range of fields within the criminal justice area, but will also enable students to continue their professional training in psychology.

Bachelor of Electrical and Electronic Engineering (Honours)/ Bachelor of Science (Physics major)
Deepen your technical skills with comprehensive physics courses which are available in the Bachelor of Science. Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Environmental Engineering (Honours)/ Bachelor of Science (Earth Sciences major)
Deepen your technical skills with comprehensive chemistry or biology courses which are available in the Bachelor of Science. Chemistry and biology are both fundamental to engineering and a deeper knowledge of these sciences can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Environmental Science and Management/ Bachelor of Business
A combined Bachelor of Environmental Science and Management/ Bachelor of Business (BESM/BBus) degree allows students to undertake and match business skills with their interest in Environment and Sustainability, a synergy that will raise awareness of commercial and entrepreneurial opportunities in the environmental space and maximise graduate employability.

Bachelor of Food Science and Human Nutrition/Bachelor of Business
This program allows students to undertake and match business skills with their interest in food and nutritional sciences, a synergy that will maximise graduate employability.

Bachelor of Mathematics/Bachelor of Science
The Bachelor of Mathematics/Bachelor of Science combined program is for those who are interested in understanding the world around us and how it works. This degree is for those that are inspired to build new knowledge and discover new things.

Bachelor of Mechanical Engineering (Honours)/ Bachelor of Science (Physics major)
Deepen your technical skills with comprehensive physics courses which are available in the Bachelor of Science. Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Psychological Science/Bachelor of Business
Graduates of this combined program might work as a marketing manager researching products and audiences for a global consumer goods company or be responsible for the creation of a safe and supportive company culture as a human resource officer.

Bachelor of Psychological Science/ Bachelor of Media and Communication
With a range of course options, you'll learn to push your individual creative boundaries, while examining the changing nature of today's complex social landscapes. Develop the cutting edge skills needed to produce ground-breaking, thought-provoking and engaging work across diverse media industries.

Bachelor of Psychological Science/Bachelor of Social Science
Psychological science is the scientific study of human behaviour and social science is the study of social and cultural relationships, structures and issues. By studying this combined program, you will learn skills useful in solving societal challenges and positively impact the lives of others.

Bachelor of Science/Bachelor of Innovation and Entrepreneurship
The Bachelor of Science/Bachelor of Innovation and Entrepreneurship combined program is for those who are interested in understanding the world around us, and in creating innovative futures that influence markets, communities and societies. This program is for those that are inspired to build new knowledge and discover new things.

Bachelor of Science/Bachelor of Laws (Honours)
Students completing this combined degree program will meet the academic requirements to practice law in NSW. Students also have the skills and knowledge to contribute to scientific development in many areas of technology, industry, agriculture or the information revolution.

The University of Newcastle reserves the right at all times to withdraw or vary degrees listed within this publication. Entry schemes are also subject to change. In the event that a degree within this publication has to be changed or withdrawn, applicants will be advised by mail to the address specified by them on their UAC application.
Selection ranks are indicative only and are based on Semester 1 2023 offers made in UAC December Round 2 2022, but is subject to change as degree content is reviewed and updated. For the most up-to-date information visit newcastle.edu.au.
Employment rates are from the QILT Graduates Outcomes Survey 2019 - 2021 (qilt.edu.au). Future career and industry projections are sourced from Australian Government Job Outlook (joboutlook.gov.au).

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University of Newcastle

Newcastle Campus
Callaghan
University Drive,
Callaghan NSW 2308

Newcastle City Campuses
NUspace
Corner Hunter and Auckland Streets,
Newcastle NSW 2300

Q Building
Corner of Honeysuckle Drive
and Worth Place,
Newcastle NSW 2300

Central Coast Campuses
Ourimbah
Chittaway Road,
Ourimbah NSW 2258

Central Coast Clinical School
Holden Street,
Gosford NSW 2250

Open Days

Each year we invite you to spend the day with us at our annual Open Days. These events give you the chance to explore our campuses and experience a taste of life at university. You can chat to current students and staff about student support services as well as degrees and study options. If you can't make it to an Open Day, you can always check out our Open Days Online site where we've put together webinars and on-demand videos to help you find all the information you're looking for.

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