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## Career Ideas

<table>
<thead>
<tr>
<th>YOU LIKE</th>
<th>YOU COULD STUDY</th>
<th>YOU COULD BE</th>
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<tbody>
<tr>
<td>Business Studies, Economics, Maths</td>
<td>Accounting and Finance</td>
<td>Accountant, Economist, Financial Planner, Investment Banker, Mortgage Broker, Stockbroker</td>
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<tr>
<td>Art, Business Studies, Design and Technology, Economics, Geography, Maths, Physics</td>
<td>Architecture, Building and Construction</td>
<td>Architect, Building Certifier, Building Surveyor, Construction Manager, Drafter, Product Designer, Project Manager, Property Developer, Quantity Surveyor</td>
</tr>
<tr>
<td>Business Studies, English, Geography, Languages, Maths</td>
<td>Business and Entrepreneurship</td>
<td>Account Manager, Business Development Officer, Entrepreneur, Human Resources Officer, Marketing Officer, Sports Development Officer</td>
</tr>
<tr>
<td>Art, Design and Technology, Drama, Movies and Television, Music, Social Media, Writing</td>
<td>Communication and Creative Industries</td>
<td>Animator, Artist, Copywriter, Filmmaker, Graphic Designer, Journalist, Multimedia Designer, Musician, Public Relations Officer</td>
</tr>
<tr>
<td>Biology, Community and Family Studies, Geography, Health and Physical Education, Maths, Society and Culture</td>
<td>Community Services</td>
<td>International Aid Worker, Migrant Support Officer, Policy Developer, Social Worker, Town Planner, Youth Worker, Environmental Manager, Human Geographer</td>
</tr>
<tr>
<td>Art, Design and Technology, Drama, English, Geography, Health and Physical Education, History, Maths, Music, Science</td>
<td>Education</td>
<td>English as a Second Language Teacher, Learning and Development Consultant, Sport and Recreation Officer, Special Education Teacher, Teacher</td>
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<tr>
<td>Business Studies, Economics, English, Languages, Legal Studies, Media and Entertainment Studies</td>
<td>Law</td>
<td>Contracts Manager, Industrial Relations Officer, International Aid Worker, Lawyer, Lobbyist, Political Adviser</td>
</tr>
<tr>
<td>Art, English, Geography, History, Languages, Music, Religion, Society and Culture</td>
<td>Society and Culture</td>
<td>Cultural Heritage Conservationist, Community Development Worker, Demographer, Historian, Media Analyst, Translator</td>
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### ACCOUNTING AND FINANCE

<table>
<thead>
<tr>
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<th>2021 SR</th>
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<tbody>
<tr>
<td>Bachelor of Commerce</td>
<td>3 yrs FT / 8 yrs PT</td>
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**Combined Degrees**

- Bachelor of Business/Bachelor of Commerce
- Bachelor of Business Analytics/Bachelor of Commerce
- Bachelor of Commerce/Bachelor of Innovation and Entrepreneurship Combined

### ARCHITECTURE, BUILDING AND CONSTRUCTION

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
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<tbody>
<tr>
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### BUSINESS AND ENTREPRENEURSHIP

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<tbody>
<tr>
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<td>Bachelor of Business Analytics</td>
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<tr>
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</table>

**Combined Degrees**

- Bachelor of Business/Bachelor of Business Analytics
- Bachelor of Business/Bachelor of Laws (Honours) Combined
- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- Bachelor of Commerce/Bachelor of Innovation and Entrepreneurship Combined
- 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 Combined/Bachelor of Laws (Honours) Combined
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Surveying (Honours)/Bachelor of Business

### COMMUNICATION AND CREATIVE INDUSTRIES

<table>
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</thead>
<tbody>
<tr>
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<tr>
<td>Bachelor of Music</td>
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**Combined Degrees**

- Bachelor of Communication/Bachelor of Laws (Honours) Combined
- Bachelor of Development Studies/Bachelor of Communication
- Bachelor of Music/Bachelor of Arts
## COMMUNITY SERVICES

<table>
<thead>
<tr>
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<th>Duration</th>
<th>2021 SR</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>Bachelor of Criminology</td>
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<tr>
<td>Bachelor of Development Studies</td>
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<tr>
<td>Bachelor of Social Science</td>
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<tr>
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### Combined Degrees
- Bachelor of Criminology/Bachelor of Laws (Honours) Combined
- Bachelor of Criminology/Bachelor of Psychological Science
- Bachelor of Development Studies/Bachelor of Business
- Bachelor of Development Studies/Bachelor of Communication
- Bachelor of Development Studies/Bachelor of Global Indigenous Studies
- Bachelor of Development Studies/Bachelor of Laws (Honours) Combined

## COMPUTING, MATHS AND TECHNOLOGY

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<td>Bachelor of Data Science</td>
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<tr>
<td>Bachelor of Mathematics</td>
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### 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 Computer Systems Engineering (Honours)/Bachelor of Science (Physics major)
- Bachelor of Data Science/Bachelor of Computer Science
- Bachelor of Data Science/Bachelor of Mathematics
- 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 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

## EDUCATION

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2021 SR</th>
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<tbody>
<tr>
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<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Education (Primary)</td>
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<tr>
<td>Bachelor of Education (Secondary)</td>
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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.
## ENGINEERING

<table>
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<th>2021 SR</th>
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</thead>
<tbody>
<tr>
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<td>Bachelor of Electrical and Electronic Engineering (Honours)</td>
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<tr>
<td>Bachelor of Engineering (Mining Transfer Program)</td>
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<tr>
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<tr>
<td>Bachelor of Mechanical Engineering (Honours)</td>
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<tr>
<td>Bachelor of Mechatronics Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Surveying (Honours)</td>
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<tr>
<td>Diploma in Engineering</td>
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### COMBINED DEGREES

- 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)

### HEALTH AND MEDICAL SERVICES

<table>
<thead>
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<th>Degree Name</th>
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</thead>
<tbody>
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<tr>
<td>Bachelor of Exercise and Sport Science</td>
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<tr>
<td>Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)</td>
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<tr>
<td>Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)</td>
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<tr>
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<tr>
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<td>Bachelor of Midwifery</td>
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<td>Bachelor of Physiotherapy (Honours)</td>
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<td>Bachelor of Speech Pathology (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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### COMBINED DEGREES

- Bachelor of Criminology/Bachelor of Psychological Science
### LAW

<table>
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**COMBINED DEGREES**

- Bachelor of Arts/Bachelor of Laws (Honours) Combined
- Bachelor of Business/Bachelor of Laws (Honours) Combined
- Bachelor of Coastal and Marine Science/Bachelor of Laws (Honours) Combined
- Bachelor of Commerce/Bachelor of Laws (Honours) Combined
- Bachelor of Communication/Bachelor of Laws (Honours) Combined
- Bachelor of Criminology/Bachelor of Laws (Honours) Combined
- Bachelor of Development Studies/Bachelor of Laws (Honours) Combined
- Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours) Combined
- Bachelor of Innovation and Entrepreneurship Combined/Bachelor of Laws (Honours) Combined
- Bachelor of Science/Bachelor of Laws (Honours) Combined
- Bachelor of Social Science/Bachelor of Laws (Honours) Combined

### SCIENCE AND THE ENVIRONMENT

<table>
<thead>
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<tbody>
<tr>
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<tr>
<td>Bachelor of Environmental Science and Management</td>
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<td>Bachelor of Food Science and Human Nutrition</td>
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<td>Bachelor of Science</td>
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<tr>
<td>Bachelor of Science (Advanced)</td>
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**COMBINED DEGREES**

- Bachelor of Arts/Bachelor of Science
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Coastal and Marine Science/Bachelor of Laws (Honours) Combined
- Bachelor of Science (Chemistry (Advanced Materials) major)
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Science (Physics major)
- 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 Mathematics/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science (Physics major)
- Bachelor of Science/Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Science/Bachelor of Laws (Honours) Combined

### SOCIETY AND CULTURE

<table>
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<th>2021 SR</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
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<tr>
<td>Bachelor of Global Indigenous Studies</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
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<tr>
<td>Diploma in Languages</td>
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**COMBINED DEGREES**

- Bachelor of Arts/Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Arts/Bachelor of Laws (Honours) Combined
- Bachelor of Arts/Bachelor of Science
- Bachelor of Development Studies/Bachelor of Global Indigenous Studies
- Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours) Combined
- Bachelor of Music/Bachelor of Arts
So, you're ready to jump into uni life, to take control of your learning, decide what you study, and how.

Uni is a place of discovery, a place to make new friends, to uncover things about yourself, about others, and the world.

Here, you'll find new passions, new perspectives. You'll collaborate. You'll grow. And you'll learn how to make an impact.

It's all here, just waiting.
Thank you for considering study with the University of Newcastle.

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 more than 37,000 students from 113 countries, you’ll always feel welcome here. Your experience here as a student is at the heart of what we do.

We are a top 200 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’re committed to offering every student an opportunity to get work experience – we call it Work Integrated Learning – before they graduate.

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 benefit from groundbreaking research that creates new advances, not just in Australia, but around the world.

I look forward to welcoming you to our beautiful campuses.

Professor Alex Zelinsky AO
Vice-Chancellor and President
Our University is home to many talented and enthusiastic students, and providing equity of access to higher education is fundamental to who we are.

It doesn’t matter what your background is or what your circumstances are, we want to give everyone the chance to go to, and thrive, at university. For example, 52% of our domestic undergraduate students are the first in their family to go to university.

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.

“Probably one of the standout moments that I’ve had within the University has been the amazing support I’ve received from the Wollotuka staff. They show so much compassion and will be by your side from the start to the finish of your degree.”

Bobby
Bachelor of Social Science

Supporting you, every step of the way

At the University of Newcastle, we’ll support you throughout your educational experience.

The Wollotuka Institute and Indigenous Health Unit will assist you with 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 Indigenous Early Entry Scheme (Law), with guaranteed places into our law 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. And you’ll have access to the knowledge, industry connections and real-world learning experiences to prepare you for your career and life.

Over 1,500 Aboriginal and Torres Strait Islander students have graduated from the University of Newcastle, and we couldn’t be prouder. 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.

newcastle.edu.au/access-ability
“Music is a universal language that has the power to cross barriers.”

For Bachelor of Music student Katherine, she’s living these words – using her music to connect with people from all walks of life and create real change.

Known as Kat to most, she’s a proud descendant of the Woppaburra people of the Keppel Islands and Argun tribe of Badu Island, Torres Strait Islands and has always looked to her family and culture as a guiding strength throughout life.

“My family are my biggest influence and inspiration and have always encouraged me to pursue my passion.”

After studying at a performing arts school in Brisbane, Kat had the opportunity to audition and was accepted into the University of Newcastle’s music program. While relocating for study can be hard for some, Kat found the support and sense of community she needed at the Wollotuka Institute.

“Making the move from Brisbane to Newcastle was a huge leap of faith. Wollotuka has helped alleviate some of the anguish I’ve experienced since living away from my family, my community and my respective Countries. I know from a cultural perspective, only they could understand and provide the support I needed to continue my study journey.”

From help with scholarship applications to financial assistance and opportunities to perform at events hosted by the Institute, Wollotuka has played a pivotal role in Kat’s journey.

“I think it’s vital to have a community like Wollotuka available to all Aboriginal and Torres Strait Islander students during university study.

“I know there’ll be other students like myself coming through university and it’s important to have this safe space where students can express what they need in order to achieve their definition of success,” said Kat.

Katherine
Bachelor of Music
Ma & Morley Scholar
Career-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.

89.5% of our undergraduate graduates find employment within four months of graduating – above the Australian university average¹

Industry partners

Our strong partnerships with local and global organisations help deliver real-world learning experiences to all students.

These are offered across government, not-for-profit and corporate industries such as the Australian Tax Office, Legal Aid, Hunter New England and Central Coast Local Health Districts, Hunter Medical Research Institute, NSW Department of Primary Industries, MasterFoods, Mission Australia, Ampcontrol and Hunter Water.

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

300+ employer connections²
Bachelor of Engineering (Honours) (Mechatronics) alumnus Sahil is working industriously now so that humans can work less later. Sahil is the co-founder of Newcastle-based startup Elite Robotics. The fast-growing company is currently developing an autonomous lawnmower, with an ultimate goal to enable similar autonomous technology on a much larger scale.

“We provide vehicles with human-like instincts to be able to navigate around the world.”

Sahil
Bachelor of Engineering (Honours) (Mechatronics), 2016

“At university you learn how to hone in on your creative skills but through the industry partnership you really improve your communication skills. It gave me insight into what sort of skills I needed to create what the client wants.”

Reid
Bachelor of Visual Communication Design (Honours), 2019

$64,600
Median starting salary for undergraduate employment – above the national average\(^1\)

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

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1 Graduate Outcomes Survey 2018-2020
2 The University of Newcastle Employability and Enterprise Data
Innovative teaching

Your degree is about far more than textbooks and tutorials, libraries and lectures. When you study here, you’ll collaborate with teachers, industry professionals, and other students and participate in interactive learning. Maybe you’ll advance your teaching skills in a simulated classroom, use 3D printing to develop a prototype for your high-rise design, or learn how to deliver babies through virtual reality.

The way we teach is innovative and always changing – so you’ll be workplace-ready when you graduate.

37,946 students from 113 countries educated and supported by 2,700+ staff

Student journey

Your journey as a university student begins the minute you gain entry into a degree program.

Whether you choose to go directly into the workforce once you complete your undergraduate degree, or continue studying, is up to you. You might complete your Honours – an additional year of study dedicated to research on a specific area of interest – or go on to study a PhD in a field that interests you. Additional non-research coursework is also available and with over 90 postgraduate programs, there’s sure to be an option to suit you.

New teaching technology

Cutting-edge technology, including virtual and augmented reality, is being used to develop our students’ understanding of anatomy within diagnostic imaging and other medical disciplines. When combined with traditional anatomical teaching methods, the SECTRA-based teaching table – with 2D and 3D representation of the human body – is providing an innovative way to enhance the learning and study experience.

10 subjects in top 200

10 subjects ranked in the top 200 in the world

1 The University of Newcastle Data Warehouse as at 4 February 2020
2 QS World University Rankings by Subject 2020
Bringing immersive teaching to the classroom

A world-first virtual reality (VR) simulation is helping to train nursing students in conflict resolution.

The Conflict Resolution training VR program replicates a real-world emergency room and asks students to respond to a high-pressure mock scenario.

As part of the Bachelor of Nursing, students undertaking their mental health module are immersed via VR headsets and faced with ‘Angry Stan’ – an avatar based on real-world interactions. Users must respond to the scenario while remaining calm and navigating a range of challenges to manage the situation.

“It was imperative to develop an immersive training program where students can practise dealing with these potential situations in a safe, repeatable and realistic environment.”

Professor Mike Hazelton
Professor of Mental Health Nursing
School of Nursing and Midwifery
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, work with communities in Indonesia to help overcome serious environmental issues, help educate and inspire future generations, 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 Integrated Learning, nothing prepares you for the real world like working in it.

"I definitely feel like the Work Integrated Learning has helped me with my employability. Being in an actual industry setting has shown the value of what I’ve been taught at uni."

Bryce
Bachelor of Computer Science

"I not only have a network of people that I can consider close friends whom share similar values and passions but also this professional network...of people whom I can work with in the future."

Dr Helena
Bachelor of Medicine, 2020
Diploma in Languages, 2020
Ma & Morley Ambassador
“Joining the iLEAD Plus program was one of the best decisions I’ve made while studying at the University of Newcastle.

The workshops and mentoring have been invaluable and I was even invited to be a Group Leader and Student Delegate at the 10th Annual University Scholars Leadership Symposium (USLS) for Humanitarian Affairs in Kuala Lumpur. That experience gave me the chance to put my leadership skills into practice in an international setting and allowed me to build numerous connections with other students from around the globe.”

Jennifer
Master of Business Administration / Master of Marketing, 2020

“Doing any kind of work experience as part of your studies is really, really helpful. It gives you that industry experience before you go out into the workforce. You learn new skills, how to collaborate with people and more importantly it builds your confidence as well, so you’re building on what you’ve learnt at uni and then applying it to real-world situations.”

Cassey
Bachelor of Communication (Media Production)

“iLEAD Plus

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

iLead Plus 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.

newcastle.edu.au/ilead

"I one hundred percent agree that the Work Integrated Learning has made me more employable - it’s even helped me gain a position as a full-time teacher from next year."

Ryan
Bachelor of Teaching (Technology) (Honours), 2020

Check out Cassey’s collaboration with Hockey Dad

""
Put your entrepreneurial ideas to the test with innovation hackathons and our annual Grand Challenge

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.

No. 1 ranked university in Australia for industry collaboration

Daniel and Bal (Borne Clothing) 2020 Grand Challenge winners

Check out Daniel and Bal’s winning design
Design Nuts
Kylie and Glenn, a husband and wife team who co-founded Design Nuts, found that many students today are slower to develop their visual spatial ability because kids don’t play and manipulate things the way they used to. It inspired them to develop the Splat – an award-winning tool which helps students draw three dimensional shapes and understand how to use shapes for engineering design.

Connecting with I2N for an Ideas Collider course, Kylie and Glenn’s product was quickly endorsed – giving them the confidence and connections to further develop their startup.

“The I2N course really helped confirm that we were on the right track. What the dedicated team at I2N are doing to support local innovation is amazing. What I took away from it was that I2N are some really genuinely interested people offering valuable help,” said Kylie.

Through a powerfully simple tool, their vision is to help design a better future.

Testimonials

“Through I2N I’ve had great opportunities to develop my personal and professional skills. I’m very grateful for the support that I’ve received and the knowledge I’ve gained through the sessions hosted at the I2N Hub – being able to meet up and make connections with like-minded and driven young people who want to achieve the extraordinary. I know for a fact this will serve me and my business in the future and I’m so glad to have been involved.”

Martha
Bachelor of Business/Bachelor of Innovation and Entrepreneurship Combined
Founder and Creative Director, ÆGLE Couture

Integrated Innovation Network (I2N)

Whether you’ve got an idea you want to test out, or you’re looking to scale up your existing business and go global, our Integrated Innovation Network (I2N) can help.

I2N supports not only entrepreneurs and businesses, but also students who are keen to develop enterprise skills valued by employers. I2N is the hub for everything entrepreneurship, for everyone. Offering co-working spaces, entrepreneurship programs, partnerships and networking opportunities, I2N can help you to upskill, develop and test ideas, and make valuable industry connections.

newcastle.edu.au/i2n
Experiences across the globe

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.

newcastle.edu.au/studyoverseas

New Colombo Plan

The New Colombo Plan (NCP) Scholarship Program is the most prestigious undergraduate scholarship in the country. The Program provides funding for undergraduate students to participate in semester-based or short-term study, internships, mentorships, practicums and research in 40 host locations across the Indo-Pacific region.

newcastle.edu.au/new-colombo-plan

Studying abroad develops your skills and gives you the potential to excel in your future career
85% of students who studied abroad said that it had a positive impact on developing their career skills.

180 Partnerships in 32 countries
For student exchange and study abroad programs

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

1 IEAA - Career outcomes of learning abroad report 2020
Where you’ll study

Our campuses are welcoming and collaborative environments.

No matter where you study – whether it’s Newcastle (Callaghan and City), Central Coast (Ourimbah and Gosford) or Singapore, or even one of our five regional centres in Tamworth, Armidale, Taree, Moree and Orange – you’ll find friendly faces and plenty of space to hang out.

newcastle.edu.au/campus-life

Newcastle (Callaghan)

Our Newcastle Callaghan campus is a central hub for education, humanities, social science, and the fields of science, technology, engineering, mathematics, and medicine (STEMM), as well as nursing and health. 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 to our campus. With all this on your doorstep, you’ll have plenty of chances to meet industry leaders and build practical skills.

Central Coast (Ourimbah and Gosford)

For more than 30 years the University has developed pathways and provided opportunities for students from all backgrounds to receive world-class education on the Central Coast. The broad range of study options at Ourimbah are backed by local industry and benefit from longstanding regional partnerships on the Central Coast. They include education, humanities and social science, oral health, podiatry and nursing, and the sciences (food, coastal and marine, and exercise and sport). The establishment of the Central Coast Clinical School will see us expand our presence into Gosford – with nursing, medicine and public health degrees to be delivered from this location. It will offer modern teaching facilities and deliver graduates ready to meet the growing needs of the medical and health workforce on the Central Coast and around Australia.
More than $100 million invested into the Newcastle City campus over the past five years

Newcastle (City)

In the heart of the CBD, our Newcastle City campus provides an integral link with industry in creativity, business and law. The campus is a hive of innovation in the city centre. Our state-of-the-art facility delivers a ‘next generation’ university experience, while our Innovation Hub is where you can engage with entrepreneurs, innovators, startups and developers to produce ideas that challenge the conventional. Our expansion into Honeysuckle, with the launch of our new home for the creative industries and new innovation hub, will enrich your learning experience with specialised studios and technologies, and offer shared spaces to connect with staff, industry and community.

We acknowledge the Traditional Custodians of the lands on which our campuses are located:

The Worimi nation and the Pambalong clan of the Awabakal nation
Newcastle Callaghan and City campuses

The Darkinjung people
Central Coast Ourimbah and Gosford campuses

The Gadigal clan of the Eora nation
Sydney campus

We pay respect to Elders past, present and emerging. We also acknowledge and pay respect to the other Aboriginal and Torres Strait Islander nations from which our students, staff and community are drawn.
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 around town.

1. **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.

2. **Coastal walk** – pack your swimmers and enjoy the beautiful sights of Newcastle on foot by following the coastal trail from Nobby’s to Merewether Beach.
   Tip: stop and take in the view on the ANZAC memorial walk… you might even spot a whale or two!

3. **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!

4. **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.

5. **Get back to nature** – are you looking for an outdoor adventure? Head to Glenworth Valley or the TreeTops Adventure Park, both located on the Central Coast. Glenworth offers heaps 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.

6. **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 killer music scenes, and there are always plenty of home-grown and international gigs to enjoy.

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1 National Geographic Smart Cities 2017
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.

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.

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 under cover. Tip: Long Jetty is home to some great boutique shopping and an even better coffee scene so you can recharge between stores.

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 the Regal Cinema in Birmingham Gardens, or Lake Cinema Boolaroo, where loose change gets you a ticket, drinks and snacks, or enjoy a film under the stars at the Heddon Greta drive-in.
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.

newcastle.edu.au/uni-life

### 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. And 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.

### 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

The University is home to over 120 clubs, societies and social groups who are always looking for new members. Are you a budding basketballer? Art appreciator? A diver? Dancer? Anime enthusiast? Be part of something new, something exciting. Challenge yourself, or just have fun.

newcastle.edu.au/clubs

### 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

newcastle.edu.au/support
Staying active

Great health and fitness facilities await you at The Forum University (Callaghan) and Harbourside (Newcastle City). You’ll find a 50m indoor heated swimming pool, extensive group fitness options and state-of-the-art strength and cardio equipment. Indoor courts provide 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.

theforum.org.au

There are plenty of outdoor spaces with sporting fields, 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.

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

callinguniversity.com/services

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.

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.
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 on-campus accommodation that you’re after or a house off campus for you and your friends, we have plenty of options.

[Newcastle.edu.au/accommodation]

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 eight 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. Students living on campus at Callaghan also have exclusive access to a free shuttle bus to the nearby shopping centre.

Living off campus

If off-campus accommodation is more suitable, either by yourself or with friends, we can help you find the right place.

Our off-campus accommodation service offers free advice to students about shared housing and has a database of current rooms, apartments and houses that are available to rent.

[Offcampusaccommodation.newcastle.edu.au]
Housing Operation of the Year Award
2017
Asia-Pacific Student Accommodation Association

2019 Excellence in Customer Service
Asia-Pacific Student Accommodation Association

Check out what it's like to live on campus.
Higher School Certificate (HSC)
If you’re completing or have recently completed your HSC or equivalent, you may be eligible to receive an Australian Tertiary Admission Rank (ATAR), which can be used as a basis to gain entry into university. The ATAR is a number between 0.00 and 99.95 that ranks how you performed in the HSC compared to other students.

The Selection Ranks (SR) listed in this publication are a combination of ATAR and adjustment points (previously called bonus points). As a HSC student, you may be eligible for a maximum 12 adjustment points added to your ATAR.

newcastle.edu.au/entryoptions

Entry help
We have a range of entry support schemes that may help you secure your place here.

Schools Recommendation Scheme (SRS)
An early offer pathway based on your Year 11 results and ratings submitted by your high school.

Year 12 Subject Spotlight
Get an offer to study based on your performance and strong results in the HSC in individual subjects related to your degree.

ATAR and Selection Rank
You may be eligible for up to 12 adjustment points. Your selection rank is your ATAR plus any adjustment points. Use your selection rank to gain entry into your dream degree.

Educational Access Scheme
Get up to four adjustment points if you have experienced educational or other disadvantage.

Elite Athlete Program
Get up to four adjustment points by applying as an elite athlete.

Regional and Rural Students
Get five adjustment points if you went to a regional or rural school in selected postcodes.

Year 12 Adjustment Points Scheme
Get up to four adjustment points based on your HSC results in particular subjects.

Aboriginal and Torres Strait Islander Admission Scheme
This scheme helps Aboriginal and Torres Strait Islander applicants gain entry into our degrees. When you complete your UAC application, make sure you indicate that you are Aboriginal or Torres Strait Islander. You’ll be invited to participate in selection interviews and have access to advice and support to help with your application.
Non-school leavers
Are you looking to apply for university but haven’t completed the HSC within the last 12 months? That means you’re considered a non-school leaver.

newcastle.edu.au/nonschoolleaver

Have you studied before?
You can be considered for admission into an undergraduate degree on the basis of:
• your performance in the HSC or equivalent – irrespective of when you gained the qualification
• completed or partially completed higher education studies
• TAFE or other qualifications – Certificate IV or higher (Certificate III is accepted for limited programs)
• overseas qualifications equivalent to Australian studies
• post-secondary professional qualifications
• performance in alternative entry programs like Newstep or Open Foundation
• Australian Defence Force (ADF) personnel qualifications and experience

Credit transfer
If your TAFE or other post-secondary qualification is similar to the degree you want to study, you can make the most of your previous studies through credit transfer. You may be granted credit for up to two years of your degree.

Entry help
Take advantage of the following schemes to help secure your place:

Educational Access Scheme
Get up to four adjustment points if you have experienced educational or other disadvantage.

Elite Athlete Program
Get up to four adjustment points by applying as an elite athlete.

Special Tertiary Admissions Test
A test for a new Selection Rank for entry into some degrees.

Aboriginal and Torres Strait Islander Admission Scheme
This scheme helps Aboriginal and Torres Strait Islander applicants gain entry into our degrees. When you complete your UAC application, make sure you indicate that you are Aboriginal or Torres Strait Islander. You’ll be invited to participate in selection interviews and have access to advice and support to help with your application.

TAFE Guaranteed Entry
Want to take your TAFE qualification to the next level?
Many successful students come to university after completing TAFE studies. That is why guaranteed entry into a number of our undergraduate programs is offered to people who have previously completed a Certificate IV, Diploma, or Advanced Diploma* through the TAFE Guaranteed Entry program. In addition, you could also be eligible for credit towards your degree – this means shorter study time and the chance to dive into your new career sooner.

* 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.
If you want to go to university, don’t let anyone tell you you’re not good enough, or let the setbacks discourage you. A pathway program like Open Foundation prepares you for university and really helps set you up for success. It took me seven years of trying different ways to get into university, but it was Open Foundation that worked for me.”

Daniel
Bachelor of Laws/
Bachelor of Arts
Ma & Morley Scholar

Newstep
If you did not complete Year 12 or missed the chance to get the marks needed for university entry, our Newstep program offers you the perfect pathway between senior schooling and university. Study on campus at Newcastle or the Central Coast.

newcastle.edu.au/newstep

Yapug
Aboriginal and Torres Strait Islander students
Yapug is a pathway program designed to help Aboriginal and Torres Strait Islander people gain skills for entry into undergraduate degrees, including a pathway into Medicine. Start your university experience in a culturally appropriate learning environment, supported by Indigenous peers and staff.

Delivered in partnership between the Wollotuka Institute and Pathways and Academic Learning Support (PALS) Centre, Yapug is a one-year program that is designed to help you develop the academic skills and self-discipline required for success in undergraduate study.

newcastle.edu.au/yapug

Open Foundation
If you are seeking a new career direction, considering attending university after time in the workforce or looking to further pursue your interests, our Open Foundation program can help make this happen. Flexible study means you can learn at your own pace, including online, part-time or full-time study options.

These options allow you to balance your study with your work, social and family commitments.

newcastle.edu.au/openfoundation

Fast-track Open Foundation
Fast-track Open Foundation is a free pathway program that can be completed in 12 weeks by eligible students. Just a single semester of enabling study means you can move quickly into your degree - even starting mid-year!

Students who preference Newstep or Open Foundation will have their results reviewed and eligible students will be provided with an offer to study the Fast-track Open Foundation program.

Admission schemes and adjustments are subject to change. Refer to website for up-to-date information.
You might be bursting with new ideas, passion, potential, and dedication. But without support, attending university can sometimes seem impossible. The University of Newcastle’s scholarship programs have been designed to provide this support and give you the opportunity to develop your talent and explore your potential.

newcastle.edu.au/scholarships

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 $26 million philanthropic commitment by Chinese entrepreneur and philanthropist Jack Ma, in honour of his lifelong friendship with respected Novocastrian Ken Morley.

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

There are three categories of scholarships:
• Educational disadvantage
• Indigenous background
• Academic excellence

Ma & Morley Scholars receive:
• up to $75,000 in financial assistance
• China immersion experience*
• an enrichment and values-based leadership program
• lifelong bonds and friendships.

newcastle.edu.au/ma-morley

Scholarships

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newcastle.edu.au/scholarships

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newcastle.edu.au/ma-morley

Find a scholarship that fits you

Each year, more than $3 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 achievement
• support for individuals facing financial hardship and educational disadvantage
• support for Indigenous 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

newcastle.edu.au/scholarships

“Joining this program has been an incredibly meaningful experience. It has allowed me to take the next step in following my lifelong passion for helping those less fortunate. It has given me the confidence and wisdom to enact real change in my community and beyond.”

Jarrod
Bachelor of Communication (Honours), 2020
Ma & Morley Ambassador

* subject to travel, health and other restrictions
HECS-HELP loans and income support. Australian Government assistance with loans. You also might be eligible for scholarships and emergency to help with the costs involved in studying, status, we have support systems available Whatever your background and financial
Financial assistance with two qualifications in less time. Degrees at once. You will then graduate Combined degrees to a particular College of the University. All degrees will be owned by a number of sub-units called Schools. 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.

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 subjects and then attend active workshops as a lecture group 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 subjects. 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
• Diploma: a program of study requiring 80 units to be completed.
• Associate degree: a program of study requiring 160 units to be completed.
• Bachelor degree: the university level qualification for entry into many professions.
• Honours: some degrees allow you to get an additional qualification that helps boost your chances of employment. Embedded honours is included as part of your degree and end-on honours is a separate additional year of study that you elect to complete.
• 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).
• Postgraduate degree: any qualification being at the level of Graduate Certificate or above.

Selection rank
This score was the lowest Selection Rank of any school leaver to receive an offer in Semester 1, 2021 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.
• 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, advanced diplomas 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.

newcastle.edu.au/study/undergraduate

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Accounting and Finance

With a degree in the area of accounting and finance, you’ll develop a dynamic understanding of the world’s fiscal systems and complex economic landscape. Stretch your skill set, so your strategic problem-solving skills can be applied in a variety of roles. In a world inundated by financial challenges, this could be your opportunity to tackle them head-on and make a difference.

newcastle.edu.au/study/accounting-and-finance

Top 175
in the world for Business and Economics¹

Professional Accreditation
Our Bachelor of Commerce Accounting major provides accreditation with professional bodies including CPA Australia, CA Australia and New Zealand, Association of Chartered Certified Accountants (ACCA) and Association of International Accountants (AIA).

Degree options
Bachelor of Commerce

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

Our Business School holds AACSB Accreditation, earned by fewer than 5% of the world’s business programs.

¹ Times Higher Education Subject Rankings 2021
Preparing for the future matters

Watch Kurtis’s story

Being able to help educate people to make smarter financial decisions is what drives Kurtis’ passion for accounting and finance.

Growing up, Kurtis always had an interest in maths and was inspired by other family members to pursue a career in accounting. Enrolling in the Bachelor of Commerce, it didn’t take Kurtis long to see he’d made the right decision. Studying at NUspace, in the heart of the CBD, he had access to industry, the latest technology, blended learning opportunities and supportive and experienced teachers.

Now, as a University of Newcastle Financial Student Ambassador, he’s sharing his knowledge with high school students, teaching them about money management and helping them build their own financial literacy.

Kurtis
Bachelor of Commerce
What you will study
You may choose to study one or two majors from the following:

- Accounting
- Economics
- Finance

Practical experience
You will graduate with professional skills, knowledge and real-world experience sought after by the industry. The Newcastle Business School aims to prepare you for the global world of business with national and international exposure and workplace experiences. While studying, take advantage of:

- 100 hours of work placement (if you choose to participate in workplace experience)
- the Empower Network for female students
- short-term work placements
- international immersion tours
- student exchange opportunities

Career opportunities
Our graduates enjoy great employment prospects with 93.8% securing jobs upon completion of their degree. 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 Accounting major is accredited through CPA Australia (CPA), Chartered Accountants Australia and New Zealand (CA ANZ), Association of Chartered Certified Accountants (ACCA) and the Association of International Accountants (AIA).

See the website for more information about this degree
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.

newcastle.edu.au/study/architecture-building-and-construction

Degree options

Bachelor of Construction Management (Building) (Honours)
Bachelor of Design (Architecture)

Also consider

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

Top 150

in the world for Architecture and Built Environment¹

93.1%

of undergraduate Architecture and Building graduates found employment within four months²

Top 5

in Australia for full-time employment, median salary, learning resources, overall educational experience and teaching quality (Undergraduate Architecture)³

¹ QS World University Rankings by Subject 2020
² Graduate Outcomes Survey 2018-2020
³ The Good Universities Guide 2021
From Penny’s very first lecture, she knew she was in the right place. Having watched an episode of Grand Designs and being awestruck by the architecture in the show, Penny knew that was what she wanted to study.

As one of the only universities that has a ‘live-in studio’, the University of Newcastle’s Bachelor of Design (Architecture) offers unique opportunities for collaboration with fellow creative minds, real-world experience and international elective placements.

For Penny, having the skills to be able to influence how people occupy a space and understanding the art behind it is a powerful trait to possess.

Penny
Bachelor of Design (Architecture)
Bachelor of Construction Management (Building) (Honours)

2021 Selection Rank: 62.00 | Median 71.60
Duration: 4 yrs FT / 10 yrs PT

UAC Code: 482460
Location: Newcastle – Callaghan
Online

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

The construction industry in Australia is booming. Construction managers lead and coordinate building and physical infrastructure projects. 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.

What you will study
Directly reflecting the needs of industry, you will build critical workplace skills in:

- building information modelling
- building surveying
- construction ecology and technology
- construction economics, finance and procurement
- construction and ecology

Practical experience
Construction management students complete 16 weeks of professional practice. Through your work placement, you’ll build vital professional networks and put your learning into practice.

Career opportunities
99% of our graduates find work within four months of completing their degree, with Construction managers having national starting salaries of $112,000.

Job possibilities include:
- Building Surveyor/Certifier
- Construction Manager
- Contracts Manager
- Estimator
- Facilities Manager
- Property Manager
- Quantity Surveyor

Professional recognition
Fully endorsed by five professional bodies in Australia and internationally:
- Australian Institute of Building (AIB)
- Australian Institute of Building Surveyors (AIIBS)
- Australian Institute of Quantity Surveyors (AIQS)
- Chartered Institute of Building (CIOB)
- Royal Institution of Chartered Surveyors (RICS)

Bachelor of Design (Architecture)

2021 Selection Rank: 80.45 | Median 88.90
Duration: 3 yrs FT / 8 yrs PT

UAC Code: 482500
Location: Newcastle – Callaghan

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

What you will study
More than half of your degree is dedicated to architecture studio work, working on a range of practical and often live projects. You’ll learn about:

- the architectural site as landscape
- construction and detailing of buildings
- sustainable design practices
- construction technology and ecology

Practical experience
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
95.9% of our graduates find work within four months of finishing their degree, with an average starting salary of $70,000.

Some typical careers include:
- Designer
- Project Manager
- Drafter
- Technician
- Infrastructure Planner
- Town Planner

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

Professional recognition
This program is fully accredited by the NSW Architects Registration Board, the Commonwealth Association of Architects and the Architects Accreditation Council of Australia. Internationally recognised through the Canberra Accord, the Board of Architects Malaysia (IAM), and as part of the Bologna Process for European Higher Education.
Business and Entrepreneurship

Business and entrepreneurship 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, as well as practical skills needed for a successful career in marketing, human resources, tourism and event management – or whichever major you choose. Where you take your degree is completely up to you.

newcastle.edu.au/study/business-and-entrepreneurship

Top 200
in the world for Management

91.7%
of undergraduate Business and Management graduates found employment within four months

Degree options
Bachelor of Business
Bachelor of Business Analytics
Bachelor of Innovation and Entrepreneurship Combined

Also consider
Bachelor of Commerce

Our Business School holds AACSB Accreditation, earned by fewer than 5% of the world’s business programs.

1 ShanghaiRanking’s Global Ranking of Academic Subjects 2020
2 Graduate Outcomes Survey 2018-2020
Entrepreneurial thinking matters

Kayden dreams of making an impact in his community; of not only doing better for himself but learning how he can help improve the lives of others.

Returning to study after time in the workforce, Kayden enrolled in the Yapug pathway program to help him gain entry into the Bachelor of Business. A program he says helped fill the gaps after being away from a learning environment for some years and one that gave him the confidence to succeed during his university degree.

Kayden is now looking to use what he’s learnt to educate people in his hometown in business and finance so they, too, can pursue their dreams and thrive.

Kayden
Bachelor of Business
Ma & Morley Scholar
Business and Entrepreneurship

Bachelor of Business

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

Practical experience
We place importance on learning experiences beyond the classroom to give you professional skills and knowledge.

Career opportunities
Our graduates go on to have exciting, stimulating and lucrative careers in the private, government and not-for-profit sectors in Australia and internationally.

Professional recognition
Accredited through the Australian Marketing Institute (Marketing major) and the Australian Human Resource Institute (Human Resource Management major). The Newcastle Business School is accredited by the Association to Advance Collegiate Schools of Business (AACSB), earned by fewer than five per cent of the world’s business programs.

Combine this degree with
- Bachelor of Business Analytics
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Civil Engineering (Honours)
- 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
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Surveying (Honours)

Bachelor of Business Analytics

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
We place importance on learning experiences beyond the classroom to give you professional skills and knowledge.

Professional recognition
The Newcastle Business School is accredited by the Association to Advance Collegiate Schools of Business (AACSB), earned by fewer than five percent of the world’s business programs.

Combine this degree with
- Bachelor of Business
- Bachelor of Commerce
Bachelor of Innovation and Entrepreneurship Combined

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<tr>
<td>Newcastle – Callaghan and City campus</td>
<td>4 yrs FT / 10 yrs PT</td>
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Combined with

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

Recommended studies

Mathematics (Standard or Advanced)

The world is rapidly changing and employers are increasingly looking for the next generation of innovative thinkers with entrepreneurial flair. The Bachelor of Innovation and Entrepreneurship Combined provides you with the skills to take an entrepreneurial idea and turn it into a successful new venture. At the same time, this degree equips you to manage the complexities of driving innovation within existing organisations. This degree is designed for idea-generators who can think globally, and design and execute a refined strategy.

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. This degree is studied in combination with either a Bachelor of Arts, Business, Commerce, Laws (Honours) or Science.

Practical experience

Studying at the University of Newcastle is exciting for those interested in change and getting ideas off the ground that could revolutionise the world. We connect you to innovative experiences that build your skills and broaden your networks, such as the Microsoft Protégé Innovation Competition. Our Innovation Hub provides opportunities for students to meet with innovators, startups and developers to collaborate and challenge the conventional.

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

Professional recognition

When delivered in combination with either the Bachelor of Business or Bachelor of Commerce, this degree is accredited through the Association to Advance Collegiate Schools of Business (AACSB), earned by fewer than five per cent of the world’s business programs. 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

**Bachelor of Business/Bachelor of Business Analytics**

This combined program will give you a broad understanding of Australian and global business environments. Whilst, providing domain specific context and knowledge from a range of business disciplines utilising cases to provide students opportunities to apply new knowledge to resolve problems and issues that they will encounter in business contexts.

**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 Laws (Honours) Combined**

Improve your understanding of important areas relevant to business, including economics, finance and accounting. Develop your skills and forge a career as a corporate or in-house lawyer.

**Bachelor of Business Analytics/Bachelor of Commerce**

This combined program provides students with the opportunity to increase the depth and breadth of their study in relevant disciplines. Be equipped to make a smooth transition from the classroom to the boardroom, by acquiring skills that employers value. All while focusing on emergent issues in context specific domains within business, preparing students to think like business decision makers who understand how business analytics supports the business decision making process.

**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 Innovation and Entrepreneurship Combined**

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 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**

This combined program gives you the skills to apply your technical skills and knowledge 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 Combined/Bachelor of Laws (Honours) Combined**

This combination is for people who are interested in turning big ideas into new ventures, business acumen, business analysis, by acquiring skills that employers value. All while focusing on emergent issues in context specific domains within business, communities and societies.

**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 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.

See the website for more information about each combined degree.
Communication and Creative Industries

Pursuing a career in communication and creative industries 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.

newcastle.edu.au/study/communication-and-creative-industries

No. 1
in NSW for learning resources in undergraduate communications studies¹

81.6%
Creative Arts students give us top marks for teaching²

Cutting-edge facilities
Students enjoy access to industry-standard equipment and state-of-the-art training spaces, including our in-house media production and radio studios and editing suites.

Degree options
Bachelor of Communication
Bachelor of Music
Bachelor of Visual Communication Design

Also consider
Bachelor of Arts
Bachelor of Design (Architecture)
Bachelor of Information Technology

¹ The Good Universities Guide 2021
² Student Experience Survey 2018 - 2019
Creative thinking matters

Being ready to dive straight into the workforce once she graduated was one of Hannah’s top priorities when choosing a university to study at. She found that the University of Newcastle had everything she needed, and more.

Studying a Bachelor of Communication (Honours), majoring in media production, Hannah had access to the latest technology, industry-standard equipment and software in almost every course she studied. Not only was she able to get the hands-on experience she needed to be ready for a job in the industry, this practical learning also helped give her an edge when she graduated.

Now working as a camera operator and editor at a local agency, Hannah is using her creativity to bring even the boldest ideas to life.

Hannah
Bachelor of Communication (Honours), 2017
# Bachelor of Communication

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<td>65.65</td>
<td>3 yrs FT / 8 yrs PT</td>
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**UAC Code**: 482350  
**Location**: Newcastle – City  
**Assumed knowledge**: English (Standard or Advanced)

When you study a Bachelor of 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 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 Arts Production
- Public Relations
- News Media

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

**Practical experience**

The Bachelor of 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**

Our graduates enjoy great employment prospects with 81.4% securing jobs upon completion of their degree. 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 Development Studies
- Bachelor of Laws (Honours) Combined

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# Bachelor of Music

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<th>2021 Selection Rank</th>
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<td>3 yrs FT / 8 yrs PT</td>
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**UAC Code**: 483450  
**Location**: Newcastle – City  
**Assumed knowledge**: Music 1 or demonstrated musical experience or qualification equivalent to Music 1 or AMEB (Grade 6 to 8 pass)

**Admission requirements**: Audition and/or interview are required for this degree. See website for more information.

The Bachelor of Music will prepare you for a career in the music industry, where you’ll have the opportunity to develop your skills as an instrumentalist, singer, composer, songwriter, music producer, entrepreneur or in other music-related professions. If you’ve been performing or creating music, then studying a music degree at the University of Newcastle is an excellent way to develop your professional skills and progress your pathway into the industry. In this degree you gain a solid grounding in music theory, technology, industry and collaboration as well as choosing to develop your creative passion and technical skills in areas of focus such as performance, songwriting and production.

**What you will study**

Our Bachelor of Music fosters collaborative activities between all our undergraduates. Depending on your chosen major/s, you’ll study performance (instrumental/voice), songwriting and production, music recording and production techniques, music sound and visual media, music teaching and pedagogy, music research and communication, and entering and engaging in the music industry. You will have the option to specialise in one or two of the following majors:

- Music Performance
- Songwriting and Production

Additional major options are available alongside your core major. Choose from Animation and Interaction, Creative Arts, Media Arts Production or News Media.

**Practical experience**

The University of Newcastle music degree fosters musical collaboration between performers, songwriters and producers. It also encourages engagement in live music performance and studio production through creative project-based assessment. You will have opportunities to showcase your work in a variety of venues and presentation styles, as well as collaborate on projects with peers across performance, songwriting, composition and creative production.

**Career opportunities**

Collaborate with world-class music professionals and learn the secrets of the trade, gain exposure and establish contacts within the industry. The Bachelor of Music will prepare you for a career as a:

- A&R Administrator/Representative
- Composer/Arranger
- Film/Game Music Composer
- Music Producer/Engineer
- Musical Theatre Artist

**Combine this degree with**

- Bachelor of Arts
Bachelor of Visual Communication Design

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 the following areas:

- Animation and Interaction
- Graphic Design and Illustration
- Creative Arts
- Interactive Media Designer/Developer
- User Experience Designer
- Web Designer

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 graphic design techniques and 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.

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

Study a Bachelor of Visual Communication Design at the University of Newcastle to sharpen your skill set and work with experts on real-world creative tasks while gaining vital industry experience. You’ll graduate ready to solve problems by tapping into dynamic visual training and design-smarts, empowered to build a business of your own or win a position in diverse organisations in Australia or overseas. Focus your study around interactive media and animation, graphic design and illustration or the creative arts and learn about diverse career opportunities in games, web, film and television, branding and marketing, art and technology.

Combined degrees

Bachelor of Communication/Bachelor of Laws (Honours) Combined
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 Development Studies/Bachelor of 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 Music/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 mindset with an enhanced understanding of how society functions.
Community Services

Are you curious about how different people interact, and the way society operates? A degree in community services allows you to understand, predict, explain and nurture human behaviour. You will use your skills to improve all aspects of society. This includes citizenship, infrastructure, the environment, economy, social justice and mental health. You’ll have the chance to address social challenges in local and global communities, creating positive change at a ground level, to help make the world a better place.

newcastle.edu.au/study/community-services

Degree options
Bachelor of Criminology
Bachelor of Development Studies
Bachelor of Social Science
Bachelor of Social Work (Honours)

Also consider
Bachelor of Psychological Science

No. 1
in NSW for learning resources and skills development in undergraduate social work studies¹

Top 100
in the world for Hospitality and Tourism Management²

88%
of undergraduate Social Work graduates found employment within four months³

¹ The Good Universities Guide 2021
² ShanghaiRanking’s Global Ranking of Academic Subjects 2020
³ Graduate Outcomes Survey 2018-2020
As someone who identifies as having a disability, Bobby has experienced what it's like to feel disadvantaged and discriminated against. “I got up one morning and I thought, ‘enough was enough’ I needed to do something, and this was it – coming to university to make a difference.” Since that day, Bobby has strived to advocate for others and fight for equality for people with disabilities. Studying a Bachelor of Social Science as a way to understand how society works and why people’s behaviours are the way they are, Bobby plans to take this knowledge and move into a law degree where he hopes to specialise in equal opportunity law.

Bobby
Bachelor of Social Science
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 placement courses 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 with a host relevant to their career aspirations. For students wishing to get additional experience in a workplace, there is an extension course that will provide you with more placement hours, and the opportunity to gain experience in more than one career pathway.

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 • victims’ advocacy

Combine this degree with
• Bachelor of Laws (Honours) Combined • Bachelor of Psychological Science

Bachelor of Development Studies

What you will study
Choose from one of the following majors:
• Cultures and Citizenship • Environmental Sustainability • Globalisation and Economic Development • Urban and Regional Development

Practical experience
This degree places a strong focus on both field trips and work placement. Your fieldwork, in places like the historically significant and sacred Aboriginal Baiame Cave in the Upper Hunter, will give you the chance to develop research skills by interpreting the local environment.

You can choose to develop your expertise in community development with a 12-week 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, Singapore, India, Japan, China, Malaysia, South Africa or Sweden.

Career opportunities
The Bachelor of Development Studies will prepare you with a range of skills and knowledge needed to help you on your career path.

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 Communication • Bachelor of Global Indigenous Studies • Bachelor of Laws (Honours) Combined • Bachelor of Social Science

2021 Selection Rank
65.00 | Median 75.95
DURATION
3 yrs FT / 8 yrs PT

UAC Code
484895
Location
Newcastle – Callaghan

Recommended studies
English (Advanced) and Mathematics (Standard or Advanced) (for Psychology Studies major)

The job market for related professions in criminology is projected to grow more than 10 per cent in the next five years. This practical, hands-on degree 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. The Bachelor of Criminology draws on criminology, psychology and legal studies to give you an in-depth understanding of crime, with a strong focus on social justice.

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 or helping developing countries address their internal constraints to trade. On a local level, you could work with Indigenous communities to interpret cultural messages on environmental sustainability. No matter your focus, when you study a Bachelor of Development Studies you’ll go on to make a positive difference in the world.

2021 Selection Rank
79.00 | Median N/A
DURATION
3 yrs FT / 8 yrs PT

UAC Code
482550
Location
Newcastle – Callaghan

See the website for more information about this degree
Bachelor of Social Science

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<td>English (Advanced) and Mathematics</td>
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<td>Social Work (Honours)</td>
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Are you interested in society and the inner workings of humanity? Social science is the study of social relationships, structures and issues. Make your mark by crafting strategies and solutions to various social challenges, develop your cultural understanding, ethical awareness and knowledge of the constructs that make the world go round. Pursue what interests you and choose your specialisation from 11 diverse areas of study. This degree empowers you to design and determine your own future. Explore the exciting complexities of the social world 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

Practical experience

As part of this degree you will have the option to complete an 80-hour work placement with organisations involved in social research, education, human resources or community service. The placement is compulsory for students who major in Human Services.

Career opportunities

Our graduates enjoy great job prospects with 86% finding work upon completion of their studies. 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 Social Work (Honours)

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A Bachelor of Social Work leads to a wide variety of rewarding professional career opportunities in health, welfare, policy and advocacy work and enables you to make a difference to individuals, families, groups, organisations and communities. There is a strong demand for qualified social workers in an ever-expanding number of fields and job opportunities are broad and rewarding. Social work fosters a strong commitment to human rights and social justice enabling graduates to encourage social change, tackle structural disadvantage, and create opportunities for others to achieve their goals.

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:

- social work
- Aboriginal studies
- sociology
- law for social work
- psychology
- social policy and planning
- social work ethics

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 research with industry partners

Opportunities for collaborative cross-disciplinary learning and community engagement such as the Law on the Beach clinic

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.

Career opportunities

Social work offers a diverse career pathway with graduates of this degree enjoying high rates of success in securing employment. 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
- Mental health and substance use
- Refugees and asylum seekers
- Social policy

Professional recognition

Accredited by the Australian Association of Social Workers (AASW).
Combined degrees

Bachelor of Criminology/Bachelor of Laws (Honours) Combined
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 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 also 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 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 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 Social Science/Bachelor of Laws (Honours) Combined
The Bachelor of Social Science and Bachelor of Laws (Honours) Combined combination is ideal if you are interested in improving social justice, anti-discrimination and human rights.
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.

newcastle.edu.au/study/computing-maths-and-technology

Degree options
- Bachelor of Computer Science
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Data Science
- Bachelor of Information Technology
- Bachelor of Mathematics
- Bachelor of Mathematics (Advanced)

Also consider
- Bachelor of Software Engineering (Honours)

Top 250
in the world for Mathematics

86.3%
of Computing and Information Systems graduates found employment within four months

Top 3
in Australia for overall satisfaction for undergraduate Science and Mathematics students

1. QS World University Rankings by Subject 2020
2. Graduate Outcomes Survey 2018–2020
3. Student Experience Survey 2019
Why not turn a hobby into a career? That’s exactly what Natalia did. As someone who was always problem-solving her own tech issues – or those that her family had – Natalia followed her passion to the Bachelor of Information Technology at the University of Newcastle.

The IT industry is booming and the demand for experts in the field only continues to increase. The more that technology advances, the more society has to keep up with it and that’s what Natalia hopes to focus on in the future – with plans to work as a systems analyst to help streamline workflows and resolve issues for large corporations.

As a female in a male-dominated industry, Natalia also wants to inspire more women to pursue careers in STEMM fields.

Natalia
Bachelor of Information Technology
What you will study
Choose to specialise in one of the following majors:
• Computer Systems and Robotics
• Cyber Security

Practical experience
Our computer science laboratories offer cutting-edge facilities, providing the perfect practical environment to apply your knowledge and test your skills. A Work Integrated Learning (WIL) course is available in your final year where you will complete 100 hours of work placement in an external organisation.

Career opportunities
Computer science is a high-growth industry with a myriad of career opportunities. Jobs exist all over the world in almost every industry, from IT to business, 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
Accredited by the Australian Computer Society.

Combine this degree with
• Bachelor of Computer Systems Engineering (Honours)

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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:
• internet of things
• embedded systems design
• communication networks
• computer and electrical engineering
• software engineering
• programmable logic design
• electronics design
• cyber security

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement you'll build important professional networks and put your learning into practice.

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. Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of completing their degree. Some typical positions include:
• Cloud Computing Engineer
• Computer Systems Engineer
• Cyber Security Engineer
• Electronics Engineer
• Embedded Systems Developer
• ICT Engineer
• Network Engineer

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.

Combine this degree with
• Bachelor of Computer Science
• Bachelor of Electrical and Electronic Engineering (Honours)
• Bachelor of Mathematics
• Bachelor of Science (Physics major)
Bachelor of Data Science*

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

• web and data analysis
• optimisation
• statistical analysis
• system architecture
• numerical 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 250 hours of work placement in an external organisation

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
• Consultancy
• Data Scientist
• Entrepreneur
• Programmer

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*

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Bachelor of Information Technology

What you will study
Choose from one of the following majors, designed to meet the industry’s evolving IT needs:

• Business Technology
• Systems Development

Plus, you’ll develop skills in:

• web technologies
• programming
• databases
• management
• computer-human interaction
• systems analysis and design
• business analysis

Practical experience
Students have the opportunity to undertake a Work Integrated Learning (WIL) industry placement and complete a major IT project with an industry partner.

Career opportunities
IT graduates work in a wide range of industries including cloud architecture, software, mobile and application development. You could go on to work for organisations like Google, Amazon, Facebook or Apple. Some typical positions include:

• Games Designer/Animator
• Infrastructure Business Analyst
• Mobile App Designer
• Software Developer
• Systems Analyst
• Web Developer

Professional recognition
Graduates are eligible to apply for membership with the Australian Computer Society.

Combine this degree with
• Bachelor of Business

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*Subject to final University approval
Bachelor of Mathematics

2021 Selection Rank: 85.00 | Median N/A
Duration: 3 yrs FT / 8 yrs PT

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

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:

- Climate Science Co-major
- Data Science Co-major
- Pure and Applied Mathematics
- Statistics
- Studies in Mathematics and Statistics

Practical experience
Mathematics students learn and create networks with students from other universities through our remote-access lab classes.

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:
- Algorithm Designer
- Data Mining Analyst
- Economic/Social Statistician
- Investment Banker/Stockbroker
- Sports Statistician
- Meteorologist

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 Electrical and Electronic Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science

Bachelor of Mathematics (Advanced)

2021 Selection Rank: 95.00 | Median 99.95
Duration: 3 yrs FT / 8 yrs PT

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

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

Practical experience
Mathematics students learn and create networks with students from other universities through our remote-access lab classes.

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, or even medical and health research.

Some typical roles are:
- Algorithm Designer
- Data Mining Analyst
- Economic/Social Statistician
- Investment Banker/Stockbroker
- Sports Statistician
- Meteorologist
- Risk or Strategy Analyst

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 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
Combined degrees

Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
Develop advanced mathematics skills to overcome technical problems in a safe and economical way.

Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics
Deepen your technical know-how with advanced mathematics knowledge. This also allows you to work in complementary fields such as predictive analysis, mathematical modelling and data mining.

Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science
Combine computer systems and computer science and become a well-rounded computing professional. It could lead to opportunities in fields such as artificial intelligence, robotics, computer graphics, digital forensics, bioinformatics, web development and data security.

Bachelor of Data Science/Bachelor of Computer Science
The immense field of science is exciting and always evolving. Apply your creativity to technology and work across industries like computer design, cyber security research and communication networks.

Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Computer Systems Engineering (Honours)
Broaden your skills base and enhance your employment prospects with expert knowledge of software development, electronic hardware design and networking.

Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
Build on your critical technical skills by combining engineering and advanced maths courses. Mathematics is fundamental to breakthrough engineering and can open up fields like data mining, mathematical modelling, statistics and predictive analysis.

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 Mathematics/Bachelor of Science
Enhance your multidisciplinary skills and apply your mathematical knowledge to a broad range of scientific industries and contexts such as research, agriculture and the environment.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics
Combining mathematics and mechanical engineering will provide you with the technical skills required to solve vital problems that arise during the design and manufacture of specialist machines and processes.

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Mathematics
Learn a variety of engineering concepts and practices, and enhance your technical skills with advanced maths courses, opening up broader career opportunities.
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 TeachLiVE simulated classrooms, and hands-on practical experience, you’ll graduate with globally-transferable skills and qualifications.

newcastle.edu.au/study/education

Degree options
Bachelor of Education (Early Childhood and Primary)
Bachelor of Education (Primary)
Bachelor of Education (Secondary)

Also consider
Diploma in Languages

Top 150
in the world for Education

94.2%
of undergraduate Education graduates found employment within four months

Top 200
in the world - English Language and Literature

1 QS World University Rankings by Subject 2020
2 Graduate Outcomes Survey 2018-2020
Growing up in a small town, Rodney saw firsthand the influence a great teacher could have on the lives of their students. That’s what he aspired to achieve.

Studying the Bachelor of Teaching, Rodney credits the placement opportunities and practical experience for preparing him for the classroom. Having the chance to build on his own classroom learning throughout his degree and put it into practice with students of his own, gave him the well-rounded study experience he needed to become a qualified teacher.

For Rodney, if he can inspire just one student to pursue their dreams, the way he did, then he’s fulfilled his role as a teacher.

Rodney
Bachelor of Teaching (Humanities) (Honours)
Ma & Morley Scholar
Bachelor of Education (Early Childhood and Primary)

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**UAC Code**
484750 484760

**Location**
Newcastle – Callaghan
Central Coast – Ourimbah

**Assumed Knowledge**
English (Standard or Advanced) and Mathematics (Standard or Advanced)

Teachers and education professionals have the power to influence lives and shape young minds. The Bachelor of Education (Early Childhood and Primary) leads to a rewarding career that allows you to work across two different settings:

- Preschool and early childhood (birth – five years)
- Primary School (Kindergarten – Year 6)

You’ll be prepared to work with diverse families and children in childcare centres, preschools, and primary school classrooms.

**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:**
- psychology of learning and teaching
- children’s learning and growth across the span of birth to 12 years
- families and society
- programming and planning for children aged 0-5 years
- language and mathematical learning

- Aboriginal education, policies and issues
- behaviour management
- early childhood special education
- ethics and professional codes of conduct
- foundation of primary education curriculum and pedagogy in K-6

**Practical experience**
You will complete three professional experience placements across early childhood and primary school classrooms totaling at least 90 days.

You can also take advantage of:
- EdOutreach – first-year community learning experiences
- 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 97% securing jobs upon completion of their degree.

Careers may include:
- Community Educator
- Curriculum Developer
- Early Childhood Centre Director
- Early Childhood Teacher
- Educational Researcher
- Primary School Teacher
- 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).

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Bachelor of Education (Primary)

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<tr>
<th>2021 Selection Rank</th>
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<tbody>
<tr>
<td>62.00</td>
<td>Median 71.15</td>
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</table>

**UAC Code**
484800 484810

**Location**
Newcastle – Callaghan
Central Coast – Ourimbah

**Assumed Knowledge**
English (Standard or Advanced) and Mathematics (Standard or Advanced)

Discover how you can empower future generations and influence positive change within classrooms and communities. As a primary teacher, you could find yourself inspiring the next generation of leaders or developing a program to encourage early interest in industries like maths and science. Being a primary teacher goes well beyond teaching maths and ABCs – you’ll play a critical role in the growth and transition of children into young adults. Use your skills and knowledge to nurture strong and confident people capable of impacting 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:**
- foundations of primary education
- how to teach K-6 curriculum
- language and literacy development
- psychology of learning and teaching
- behaviour management

To diversify your skills and enhance your job prospects, study courses in one of the following areas:
- human society and its environment
- creative arts
- personal development, health and physical education

**Practical experience**
You will complete three professional experience placements totaling at least 90 days.

You can also take advantage of:
- EdOutreach – first-year community learning experiences
- 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 94.7% securing jobs upon completion of their degree. 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
- Educational Researcher
- Primary School Teacher
- Special Education Teacher

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

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<td>62.00</td>
<td>Median 75.55</td>
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</table>

- Technology
  Explore and develop your passion for current and emerging technologies and nurture students' abilities to think innovatively and use technological applications in real-world situations. Learn how to design, create and evaluate products and systems in areas such as Computing Information Systems and Software Design, Industrial Technology Engineering, Industrial Technology Graphics and Multimedia, Industrial Technology Timber and Metal, Information Processes and Technology, Software Design and Development.

- Special Education
  If you’re interested in developing specialist skills to enable you to work with students with diverse needs, this pathway provides an avenue for accreditation as an inclusive educator in a secondary education classroom or special education setting.

Practical experience
You will complete three professional experience placements totalling 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
- TeachLiVE – teach online
- 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 are well prepared and enjoy great employment prospects across our teaching majors. The following list provides some typical examples of jobs available to graduates:
- 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).

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 from at least one of the following teaching areas:

- Health and Physical Education
  You will motivate and teach secondary students to explore a range of physical activities, sports and healthy lifestyle issues. You’ll be given the important task of empowering future generations to make informed decisions regarding the health and well-being of themselves and others, helping them develop the skills and confidence needed to participate in a range of physical endeavours, and motivating them to maintain high levels of physical activity and fitness in order to achieve good health.

- Humanities
  Explore your interests and diversify your skills in humanities with two or three chosen specialisations. Choose from a range of popular subject areas including Aboriginal Studies, Ancient History, Business Studies, Economics, English, Geography, Languages (French, German, Japanese, Chinese), Legal Studies, Modern History, Society and Culture, Studies of Religion, and TESOL (Teaching English to Speakers of Other Languages).

- Mathematics
  As a secondary maths teacher, your love of numbers can shape, guide and nurture our future mathematicians. Hands-on study and rich practical experience will enable you to confidently teach mathematics in innovative ways.

- Science
  Choose from Biology, Chemistry, Earth and Environmental Science, Physics or Investigating Science. You’ll combine your passion for education and science to become a versatile science and innovative secondary school teacher with in-demand skills.

Where else could you combine your passion for education, explore subject areas you’re interested in and apply your in-depth knowledge and skills to inspire young minds? Our graduates are both qualified teachers and highly skilled specialists who work in education as well as a range of related industries. You could find yourself encouraging a student to follow their passions in science – inspiring them to go on to make groundbreaking discoveries – or helping the quiet student to find their voice in public speaking and debating. With this degree, you’ll be at the forefront, shaping the minds of tomorrow’s leaders.
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 No. 13 in the world for Automation and Control Engineering, this is the place to develop world-changing solutions.

newcastle.edu.au/study/engineering

No. 13
in the world for Automation and Control Engineering

Top 100
in the world for Civil and Structural Engineering

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

Degree options
Bachelor of Aerospace Systems Engineering (Honours)
Bachelor of Chemical Engineering (Honours)
Bachelor of Civil 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 Computer Systems Engineering (Honours)

1 ShanghaiRanking’s Global Ranking of Academic Subjects 2020
2 QS World University Rankings by Subject 2020
Problem-solving matters

Watch Tahlia’s story

It’s not every day that you get to combine your passion for maths, science and aviation into one degree. Lucky for Tahlia, at the University of Newcastle, you can – with the Bachelor of Aerospace Systems Engineering (Honours).

Not only has Tahlia been able to work with fellow students on projects like the University’s rocket club, she also landed herself a sought-after internship with the RAAF Base at Williamtown where she’s been able to gain valuable hands-on experience and make industry connections that will serve her well once she graduates.

Tahlia’s main motivation for studying engineering is to inspire young female students and young Indigenous students and show them that engineering doesn’t look like just one person, it’s for everyone.

Tahlia
Bachelor of Aerospace Systems Engineering (Honours)
Aerospace systems engineering involves a systems approach to the design, efficient operation and modification of high-tech devices for the aeronautical and defence industries. A key challenge for the development of aerospace systems is the need to be as lightweight as possible, yet highly reliable. 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.

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:

- aircraft operations and performance
- principles of flight
- aircraft systems and avionics
- propulsion systems
- aerospace design and materials
- embedded systems engineering
- aerospace systems design
- a final year research project

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you'll build important professional networks and put your learning into practice.

Career opportunities
Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of completing their degree. Some typical positions include:

- Aerospace Systems Engineer
- Satellite Engineer
- Systems Engineer
- Various positions within aircraft design and manufacturing companies, Australian and international airlines, airworthiness organisations and the Australian Defence Force.

Professional recognition
This program is provisionally accredited by Engineers Australia.
### Civil Engineering (Honours)

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**UAC Code**: 482610  
**Location**: 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, highways and railways, tunnels, airports, power generation facilities and harbour facilities are all designed, built and managed by civil engineers. At the University of Newcastle, we educate our engineers to meet the global challenges of the future. With a Bachelor of Civil Engineering (Honours), you could engineer energy efficient buildings, or help develop sustainable and resilient infrastructure in developing countries. You might even design Australia’s first high-speed train network to connect communities and reduce carbon emissions.

**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 four professional practice courses and diversify your skills with an elective pathway. Build critical, technical engineering skills in:  
- structural engineering  
- water engineering  
- geomechanics  
- fluid dynamics  
- civil engineering materials  
- steel design

**Practical experience**  
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement you’ll build important professional networks and put your learning into practice.

**Career opportunities**  
Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of completing their degree. Civil engineers work for construction companies, consulting firms, project management companies, transport companies and governments. Some typical positions include:

- Civil Engineering Designer  
- Geotechnical Engineer  
- Stormwater Engineer

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

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

**Combine this degree with**  
- Bachelor of Business  
- Bachelor of Environmental Engineering (Honours)

**See the website for more information about this degree**

### Electrical and Electronic Engineering (Honours)

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**UAC Code**: 482640  
**Location**: 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)

Engineers solve problems and develop technology using mathematics, science and creativity for the advancement of humanity. 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 nano-electronics, 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.

**What you will study**  
You will build critical technical and engineering skills in:  
- electric energy systems and renewables  
- electronics design  
- embedded systems  
- control systems  
- communication systems and Internet of Things  
- automation and feedback control systems

You will tackle real-world challenges through professional practice courses and diversify your skills with an elective pathway.

**Practical experience**  
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

**Career opportunities**  
You might focus on electronics engineering, automation and control engineering, robotic engineering or power generation and distribution. Our graduates enjoy great employment prospects with 93.3% securing jobs within four months of completing their degree. 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 qualifies you as a professional engineer, meaning graduates have greater opportunities for international mobility.

**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)

**See the website for more information about this degree**
What you will study
The first two years of the program will focus on:
• mathematics
• structural and environmental mechanics
• geomechanics
• technology and human values
• computer programming

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 in the final two years of study, to be undertaken at your chosen transfer university.

Career opportunities
Large and often multinational companies dominate the mining sector. Our graduates enjoy great employment prospects with 92% securing jobs within four months of graduating.

Some typical positions include:
• Development Superintendent
• Mining Engineer
• Mining Superintendent

Professional recognition
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.

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.

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

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. Our graduates enjoy great employment prospects with 95.5% securing jobs within four months of completing their degree.

Some typical positions include:
• Environmental Impact Consultant
• Environmental Remediation Technician
• Sustainable Fisheries Consultant

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

Combine this degree with
• Bachelor of Civil Engineering (Honours)
• Bachelor of Science (Earth Sciences major)
Bachelor of Mechanical Engineering (Honours)

2021 Selection Rank 80.80 | Median 94.10
Duration 4 yrs FT / 10 yrs PT

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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. With a Bachelor of Mechanical Engineering (Honours), you could design self-driving farm machinery for ultra-efficient food production, or build revolutionary biomechanical solutions for people with disabilities.

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. Build critical technical and engineering skills in:

- mathematics, physics, design and mechanics
- advanced materials and manufacturing
- bulk solids handling
- fluid dynamics
- thermodynamics
- computer-aided engineering

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

Career opportunities
Almost all industries need mechanical engineers and 94.1% of graduates find work within four months of completing this degree. 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

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

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

Combine this degree with
- Bachelor of Business
- Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science (Physics major)

Bachelor of Mechatronics Engineering (Honours)

2021 Selection Rank 82.35 | Median 87.95
Duration 4 yrs FT / 10 yrs PT

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<th>Location</th>
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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 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.

What you will study
Gain essential workplace skills with professional practice courses and build critical technical and engineering skills in:

- computer-integrated manufacturing
- electronic design
- mechatronics design
- microprocessor systems
- modelling and simulation
- sensors and actuators

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

Career opportunities
Mechatronics engineers play an essential role in a growing number of fields. Our graduates enjoy great job prospects with 94.1% securing work within four months of completing their degree. They might take up careers in the robotics, aerospace, chemical, defence, automotive, marine, manufacturing, mining or finance industries.

Some typical positions include:
- Avionics Engineer
- Industrial Automation Engineer
- Robotics Designer
- Smart Infrastructure Designer

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

Combine this degree with
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)
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.

What you will study
Build critical medical and engineering skills through courses in:
- human pathophysiology
- engineering design
- programming and computing
- neurobiology
- fluid mechanics
- electronics design
Choose one of the following majors:
- Medical Biomechanics
- Medical Devices
You’ll also be able to diversify your skills through courses that can be used to:
- deepen your technical competence in your engineering/health field
- broaden your expertise in another area of engineering
- specialise your skills in areas outside engineering, such as business or communications
- study overseas at one of our many partner institutions

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

Career opportunities
Depending on your area of specialisation, you could work with:
- artificial organs
- diagnostic equipment
- dialysis equipment
- implantable devices
- prosthetic limbs
- radiotherapy equipment
- rehabilitation systems
- respirators and ventilators
- surgical devices

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.

What you will study
Build critical technical skills in:
- solar and wind
- geothermal, hydro, ocean and hybrid systems
- carbon accounting and energy auditing
- power electronics and renewable energy systems
- bioenergy
- energy storage systems
Become job-ready through four professional practice courses and diversify your skills with an elective pathway.

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

Career opportunities
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.
Bachelor of Software Engineering (Honours)

2021 Selection Rank
83.05 | Median 94.65

Duration 4 yrs FT / 10 yrs PT

UAC Code 482700

Location 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)

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.

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:

- database management systems
- enterprise software
- computer architecture
- formal languages and automata
- programming languages and paradigms
- software architecture and quality management
- software development

Practical experience
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

Career opportunities
Our graduates enjoy great employment prospects with 94.1% securing jobs within four months of completing their degree. 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
- Internet and Web Engineer
- Software Development Manager
- Software Engineer
- Telecommunications Engineer

Professional recognition
Professional recognition through Engineers Australia and the Australian Computer Society means graduates will be qualified as professional engineers, meaning graduates have greater opportunities for international mobility.

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:

- geodesy
- photogrammetry and laser scanning
- industrial and cadastral surveying
- land and mining surveying
- satellite positioning
- spatial data systems
- and remote sensing
- modern surveying techniques and computations

Practical experience
All University of Newcastle surveying students must complete 12 weeks of professional practice during their degree. Through your work placement, you’ll build important professional networks and put your learning into practice.

Career opportunities
Our graduates enjoy great job prospects with 93.8% finding work within four months of completing their degree. 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.

Some typical positions include:

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

Professional recognition
This degree program is accredited by the Council of Reciprocat ing Surveying Boards of Australia and New Zealand, and meets the requirements of the Board of Surveying and Spatial Information (BOSSI). This degree program is also accredited and recognised by the Land Surveyors Board, Malaysia.

Combine this degree with

- Bachelor of Business
- Bachelor of Civil Engineering (Honours)
Develop your knowledge and skills of engineering through real-world projects and problem-solving. The Diploma in Engineering has been designed to provide a core knowledge base that prepares you with the appropriate academic literacy, research, science, mathematics and introductory engineering skills required to go onto further study or into the workforce.

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 also complete a short-directed list of courses, providing you with a taste of one of two discipline areas within our 12 engineering specialisations. The Diploma in Engineering offers guaranteed entry pathway into all disciplines of the Bachelor of Engineering (Honours) degree.

Practical experience
You will connect with industry through projects, guest lecturers, and mentoring.

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.
Mathematical Modelling, Statistics and Predictive Analysis.

Build on your critical technical skills by combining engineering (Honours)/Bachelor of Mathematics
Bachelor of Electrical and Electronic Engineering
Bachelor of Computer Systems Engineering (Honours)
Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
Bachelor of Chemical Engineering (Honours)/Bachelor of Business
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 Surveying (Honours)
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 Surveying (Honours)/Bachelor of Business
Bachelor of Science (Physics major)
Bachelor of Mathematical Engineering (Honours)/Bachelor of Mechatronics Engineering (Honours)
Bachelor of Electronic Engineering (Honours)/Bachelor of Science (Physics major)
Bachelor of Surveying (Honours)/Bachelor of Business
Bachelor of Mechanical Engineering (Honours)/Bachelor of Science (Physics major)
Bachelor of Surveying (Honours)/Bachelor of Business
Health and Medical Services

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.

newcastle.edu.au/study/health-and-medical-services

Degree options
Bachelor of Biomedical Science
Bachelor of Exercise and Sport 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 and 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 Psychological Science
Bachelor of Psychological Science (Advanced)
Bachelor of Public and Community Health
Bachelor of Speech Pathology (Honours)

Also consider
Bachelor of Biotechnology
Bachelor of Food Science and Human Nutrition
Bachelor of Medical Engineering (Honours)

1 Shanghai Ranking’s Global Ranking of Sport Science Schools and Departments 2020
2 Graduate Outcomes Survey 2018-2020
3 QS World University Rankings by Subject 2020
Caring for others matters

Watch Kieran’s story

Kieran’s study journey hasn’t been a straightforward one. Growing up, he wasn’t sure what he wanted to do for a career, but after finding a love for medicine, Kieran says he hasn’t looked back since.

Over the years, Kieran has recognised that Aboriginal doctors are underrepresented in the medical industry. By studying a Bachelor of Medical Science/Doctor of Medicine, one of Kieran’s main goals is to contribute to turning that around and helping better some of the current statistics around Indigenous health.

Once he graduates, Kieran plans to return to his hometown of Dubbo and implement health and wellbeing programs that will make a difference in his local community.

Kieran
Bachelor of Medical Science/Doctor of Medicine
Ma & Morley Scholar
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:
• physiology
• anatomy
• biochemistry
• medical genetics
• immunology
Choose from electives in your third year of study to prepare for your career 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.

Practical experience
Hone your skills using the highest quality equipment in our purpose-built $17.3 million multi-storey medical sciences precinct, including innovative laboratories. 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/Gene Counselor
• Laboratory Scientist
• Pharmaceutical Scientist
• Reproductive Medicine/IVF Specialist
• Science Educator

People use exercise for a whole range of reasons, from staying fit and healthy, managing disease and health conditions as well as competing in recreational and 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. You could find yourself leading a team of research scientists to discover a new link between brain function and diet or develop a new format of exercise that produces greater results. At the University of Newcastle, 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.

What you will study
This degree addresses both sport and health aspects in its comprehensive approach to the study of exercise and biological sciences. Some of the courses you will complete focus on:
• biomechanics
• clinical exercise testing and prescription
• exercise physiology
• growth, development and ageing
• 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, the latest testing equipment and a state-of-the-art 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 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% securing employment within four months of finishing their degree. A wide range of career opportunities are available with some typical roles including:
• Exercise Scientist
• Exercise Rehabilitation/Injury Management Advisor
• Player Development Manager

Professional recognition
Graduates are eligible for accreditation with Exercise and Sport Science Australia (ESSA).
**Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)**

<table>
<thead>
<tr>
<th>2021 Selection Rank</th>
<th>92.90</th>
<th>Median 96.55</th>
<th>Duration</th>
<th>4 yrs FT</th>
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**UAC Code** 483355  
**Location** 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, including 2D, 3D and 4D imaging technology.

- anatomy and physiology  
- clinical education  
- instrumentation  
- physics  

**Practical experience**  
All students will undertake up to 44 weeks of professional practice over the duration of the program, starting in first year. Placements will be in metropolitan and regional settings along with a mandatory rural placement as part of practical experience. You will also have access to the latest diagnostic radiography technologies on campus.

**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  
- MRI 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).

**2021 Selection Rank** 72.00 | Median 82.35 | Duration 4 yrs FT  
**UAC Code** 483365  
**Location** Newcastle – Callaghan  
**Assumed knowledge** English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics

As a nuclear medicine scientist, you’ll apply medical imaging technologies and radioactive chemical compounds (called radiopharmaceuticals) to image 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.

- anatomy  
- molecular imaging  
- nuclear medicine theory  
- patient care

**Practical experience**  
You will complete 44 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 $1.5 million on-campus radiopharmacy laboratory.

**Career opportunities**  
Our graduates are highly sought after and enjoy great job prospects with 89% finding work within four months of completing their degree. Some typical roles include:

- Nuclear Medicine Technologist  
- Nuclear Medicine Technician  
- PET Technologist

**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).
Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)

2021 Selection Rank 75.35 | Median 83.80
Duration 4 yrs FT

UAC Code 483379
Location Newcastle – Callaghan
Assumed knowledge English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics

Radiation therapy uses sophisticated 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.

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.

Areas of study include:
- anatomy
- behavioural science
- clinical methods
- imaging and treatment technologies
- oncology
- statistics and research methodology

Practical experience
You will complete 44 weeks of a mentored professional placement in metropolitan, regional and rural settings. You will also have access to world-class facilities such as our 3D radiation therapy simulation laboratory, the first of its kind in Australia.

Career opportunities
Our graduates enjoy great job prospects, with 96% finding work within four months of completing their degree. Some typical roles include:
- Chief Radiation Therapist
- Dosimetrist
- Medical Physicist
- 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).

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

2021 Selection Rank N/A | Median N/A
Duration 5 yrs FT

UAC Code 785000
Location Newcastle – Callaghan
Recommended studies English (Standard or Advanced)
Entry requirements There are additional entry requirements for this degree. See website for more information.

Studying to be a doctor is challenging and rewarding. The program provides students with the skills and knowledge to begin a career focused on helping restore, maintain and promote individual and community health in Australia and around the world. The field of medicine is rapidly changing, with advances in technology and research enabling new therapies and improved patient outcomes. Doctors play an important role in multidisciplinary health teams, contributing expertise in the diagnosis and treatment of a range of health conditions. Students also have the option to study at our Central Coast Clinical School.

What you will study
The five-year Joint Medical Program incorporates a staged transition from campus-based learning to clinical placements in a range of healthcare settings. The campus-based teaching in Years 1 and 2 uses an integrated, problem-based curriculum involving self-directed learning and tutorial participation. You will learn about the science underpinning medical practice and develop the basic clinical skills, in preparation for contact with patients. During this phase of the program, you’ll have access to early clinical exposure. Years 3, 4 and 5 of the program focus on applying biomedical knowledge and clinical skills in placements within hospitals, community health services and general practice. You’ll encounter increasingly complex clinical problems, and the challenges of clinical decision-making in urban, rural and remote communities. There are also opportunities to explore research practice in the field of medicine. In Years 3 and 4, students will work with a small group to plan and implement their own research project, with the support of experienced tutors. Year 5 will focus on completing preparation to be a work-ready intern.

Practical experience
The Joint Medical Program recognises that the best type of learning in medicine is practical learning. Our partnerships and extensive clinical networks mean students have the opportunity to complete placements in urban, regional and rural settings across Australia. Our clinical teachers are highly skilled and many have national and international recognition as experts in their field. Your clinical experience will begin in the first semester and increase throughout the degree. You will gain a range of professional experiences and 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 in practice. You will develop an understanding of global health systems and have opportunities to undertake clinical placements and exchanges abroad. The program affords the opportunity for hands-on research experience supported by active medical researchers.

Career opportunities
Our graduates enjoy great 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 Physicists
- Medical Scientists
- 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.
As a midwife, you’ll be focused on caring for women, babies and their families during pregnancy, labour, birth and the early infancy period. You’ll work with women and families to achieve the best health outcomes for mothers and their babies. Our Bachelor of Midwifery 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.

### What you will study

You will learn contemporary midwifery practice and new models of maternity care with a focus on primary health care, including health promotion, Indigenous health and woman-centred care. You will develop your skills in:

- antenatal care
- labour and birthing care
- care of a newborn baby

Students who perform well may undertake a further year of study to obtain an Honours degree.

#### Practical experience

You have the opportunity to complete a minimum of 1,400 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 98% securing work within four months of completing their degree. Some typical roles include:

- Clinical Midwife Educator
- Clinical Midwife Specialist

#### 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).

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<table>
<thead>
<tr>
<th>Location</th>
<th>2021 Selection Rank</th>
<th>UAC Code</th>
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<td>Newcastle – Callaghan</td>
<td>86.00</td>
<td>Median 91.00</td>
</tr>
<tr>
<td>Central Coast – Ourimbah</td>
<td>86.00</td>
<td>Median 91.00</td>
</tr>
</tbody>
</table>

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.

### 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:

- antenatal care
- labour and birthing care
- care of a newborn baby
- primary, secondary and tertiary nursing
- mental health
- aged care

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:

- medical-surgical facilities
- acute care
- community health and major teaching hospitals
- mental health settings

Hands-on clinical experience is also completed in simulation laboratories on campus.

#### Career opportunities

Our graduates enjoy great job prospects with 85% 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

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).
Bachelor of Nutrition and Dietetics (Honours)

**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
- social sciences
- medical nutrition therapy
- public health nutrition
- food service and management
- professional practice
- dietetic practice
- paediatric nutrition and dietetics
- mental health
- 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 and interstate including hospitals, outpatient clinics and community health centres.

**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
- Sports Dietitian
- Researcher

**Professional recognition**
Our students are eligible to apply for Accredited Practising Dietitian status as well as full membership to the Dietitians Association of Australia.

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Bachelor of Occupational Therapy (Honours)

**What you will study**
You will gain theoretical knowledge in biomedical, behavioural and occupational sciences, and learn professional occupational therapy skills through case-based training 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 more than 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 laboratory, complete with a modified home and a virtual house.

**Career opportunities**
The work of an occupational therapist is incredibly broad. With the Bachelor of Occupational Therapy (Honours), you can enable children to reach developmental milestones or improve their occupational participation in all areas of their lives. You could 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.

**Professional recognition**
Accredited by the Occupational Therapy Board of Australia (OTB) under the Australian Health Practitioner Regulation Agency (AHPRA).
Bachelor of Pharmacy (Honours)

2021 Selection Rank: 75.00 | Median: 87.50
Duration: 4 yrs FT

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<th>UAC Code</th>
<th>Location</th>
<th>Assumed knowledge</th>
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<tr>
<td>483800</td>
<td>Newcastle – Callaghan</td>
<td>Mathematics (Extension 1 or 2) or Mathematics (Band 5 or 6), English (Advanced), Chemistry and Physics</td>
</tr>
</tbody>
</table>

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:

- core biomedical sciences
- dosage formulations
- chemistry
- 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. This includes everything from investigating drug design and discovery and formulation development, to pharmacy practice, personalised healthcare and health technologies assessment. Some typical roles are:

- Community Pharmacist
- Hospital Pharmacist
- Industrial Pharmacist
- Pharmaceutical Policy Officer
- 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)

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<th>2021 Selection Rank</th>
<th>Duration</th>
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<th>Location</th>
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<tr>
<td>98.06</td>
<td>Median 99.95</td>
<td>483850</td>
<td>Newcastle – Callaghan</td>
<td>Chemistry, English (Advanced) and at least one of Physics or Biology</td>
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</table>

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
- exercise science
- health promotion and public health
- statistics and research methodology

Practical experience
You will complete a large amount of supervised clinical practice during the degree. Clinical placements start in first year and continue throughout the degree. Students undertake clinical placements in a wide variety of settings including public and private hospital inpatients, community and rehabilitation centres, hospital outpatients, private practices and aged care.

Career opportunities
Our graduates have great job prospects with 98% 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).

### Bachelor of Podiatry

<table>
<thead>
<tr>
<th>2021 Selection Rank</th>
<th>Duration</th>
<th>UAC Code</th>
<th>Location</th>
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<tr>
<td>70.95</td>
<td>Median 76.90</td>
<td>483900</td>
<td>Central Coast – Ourimbah</td>
<td>Chemistry and Mathematics (Standard or Advanced)</td>
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</tbody>
</table>

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
- podiatric medicine
- physiology and biomechanics
- podiatric medicine
- exercise science

Practical experience
Podiatry students complete more than 1,000 hours of practical experience and work alongside experienced podiatrists. 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 Hospital.

Career opportunities
Our graduates enjoy great job prospects with 90% securing work within four months of finishing their degree. Typical roles include:
- General or specialised podiatry practice e.g. sports podiatry
- Podiatric Surgeon
- Researcher
- Health Promotion Officer

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.
What you will study
You will cover a broad range of study areas such as mental illness, interventions, the biology of the brain, memory, decision making, as well as developmental, social and personality studies. In addition to these study areas, you will also undertake courses that teach research skills such as methodology and statistics.

Practical experience
This degree includes a pre-professional strand of courses each year, which will help you develop workplace skills. You will have access to psychology labs and the psychology clinic to enhance your practical skills and theoretical studies.

Career opportunities
Our graduates enjoy great job prospects with 92% securing work soon after graduating. Examples of roles that your degree could apply to include:

- Careers Counsellor
- Case Manager
- Case Worker
- Juvenile Justice Officer
- Market Researcher
- Mediator
- Practicing Psychologist

Professional recognition
This course is currently 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 either the Honours or postgraduate study in 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 Criminology

Understanding the science behind human behaviour, the human brain and its effect on the way we act and why, form the foundation of psychological science. The Bachelor of Psychological Science (Advanced) will not only help you deepen your understanding of theoretical methodologies – but with opportunities to participate in Work Integrated Learning (WIL), you'll develop valuable connections with industry and other professionals to improve employment outcomes when you graduate. 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
You will cover a broad range of study areas such as mental illness, interventions, the biology of the brain, memory, decision making, as well as developmental, social and personality studies. In addition to these study areas, you will also undertake courses that teach research skills such as methodology and statistics.

Practical experience
This degree offers additional work and research-integrated learning, as you will apply your studies to complete a major transdisciplinary capstone project throughout your third year.

Career opportunities
Our graduates enjoy great job prospects, with 92% securing work soon after graduating. Examples of roles that your degree could apply to include:

- Careers Counsellor
- Case Manager
- Case Worker
- Juvenile Justice Officer
- Market Researcher
- Mediator
- Practicing Psychologist

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 either the Honours or postgraduate study in 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.
Health and Medical Services

• Health Administrator
• Epidemiologist
• Environmental Health Officer
• Community Health Officer
• Community Educator
• Community Development Worker

Did you know the most common global health issues are largely preventable? If being part of the solution excites you, this degree is the place to start. Public health professionals work to improve the health of communities around the world. They develop policies and health promotion programs to address infectious disease, homelessness, poverty, lifestyle behaviours, and to improve the environments we live in. Issues like rising rates of chronic disease, healthcare costs and an increased need for research on disease prevention mean there’s a growing need for skilled public health professionals in the workforce.

Practical experience
You’ll complete a semester-long work experience program in your final year of study. This means you will gain valuable practical experience, be able to build professional networks and graduate industry-ready. As part of the program’s Professional Pathways courses, you will undertake a series of passion projects where you have the opportunity to undertake work experience, volunteer work, and explore the areas you’re most interested in. You will be supported by a network of peers, advisory teachers, expert mentors and community along the way.

Career opportunities
Graduates are employed in non-government organisations, primary care organisations, local and state government, Indigenous health and more.

Recommended studies
Biology, Chemistry, Mathematics (Standard or Advanced) and English (Advanced)

<table>
<thead>
<tr>
<th>Bachelor of Speech Pathology (Honours)</th>
<th>Bachelor of Public and Community Health</th>
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<tbody>
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<td><strong>2021 SELECTION RANK</strong></td>
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Speech pathologists are allied health professionals responsible for the assessment and treatment of children and adults with communication and swallowing disorders across a range of practice areas including speech, language, voice, fluency, swallowing and multimodal communication. 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 communication and swallowing disorders arising from conditions such as developmental speech and language disorders, cerebral palsy, stroke, head injury, and Parkinson’s disease.

Practical experience
Develop impressive real-world skills with more than 20 weeks or 80 hours 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 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.

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.
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.
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 University of Newcastle Law School’s Legal Centre provides you with the practical legal training and supervised clinical legal experience needed to practise as an Australian lawyer without any further study.

newcastle.edu.au/study/law

**Study at NUspace**
A $95 million state-of-the-art education precinct located in the heart of Newcastle, and only one block from the NSW Court House complex. Students can observe cases in Tribunals, Local Courts, District Courts and the Supreme Court on a daily basis.

**Degree options**
Bachelor of Laws (Honours) Combined

**90.4%**
of undergraduate Law and Paralegal Studies graduates found employment within four months¹

**5 years**
At the Newcastle Law School, Australia’s leading clinical law school, you can become a fully qualified lawyer in 5 years of full-time study.

¹ Graduate Outcomes Survey 2018-2020
For Luisa, there are so many areas of law that can make a positive change in people’s lives. That’s what motivated her to study a Bachelor of Laws (Honours) Combined/Bachelor of Communication at the University of Newcastle.

As a Ma & Morley scholar, Luisa has been able to explore her passion for helping people, discover important ways she can make an impact and develop the skills needed to become the global leader she’s always dreamed of being.

Across the world, we’re in a period of time that is full of change and if there’s one thing Luisa wants to do more than anything, it’s being part of that change, for good.

Luisa
Bachelor of Laws (Honours) Combined/
Bachelor of Communication
Ma & Morley Scholar
Bachelor of Laws (Honours) Combined

2021 Selection Rank: 92.00 | Median: 96.80
Duration: 5 yrs FT

UAC Code: 483100
Location: 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. Newcastle Law School 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
When you study at the University of Newcastle, you will graduate with a Bachelor of Laws (Honours) Combined and a second bachelor level degree in just five years of full-time study, plus the option of also gaining your Diploma of Legal Practice at the same time. You can do this as part of the last two years of study and complete the degree and diploma in five years. You will graduate with skills and experience in:
- advanced legal research
- advocacy
- analytical problem-solving
- high-level task management
- negotiation and dispute resolution
- oral and written communication

Practical experience
The Newcastle Law School 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 Law School 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
Our graduates go on to secure jobs in a diverse range of areas, within four months of graduating. Studying law not only prepares graduates for a career in the legal profession, but a huge variety of other roles in sectors ranging from government and business to media and the arts. Some typical positions include:
- Barrister
- Corporate Lawyer
- Judge’s Associate/Tipstaff
- Law Clerk/Paralegal
- Legal Aid Lawyer
- Policy Advisor
- Solicitor

Professional recognition
Students who choose to complete the Diploma of Legal Practice while studying their combined law degree are able to apply to the Legal Profession Admission Board to practise law in NSW without additional further study.

Combine this degree with
- Bachelor of Arts
- Bachelor of Business
- Bachelor of Coastal and Marine Science
- Bachelor of Commerce
- Bachelor of Communication
- Bachelor of Criminology
- Bachelor of Development Studies
- Bachelor of Global Indigenous Studies
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Science
- Bachelor of Social Science

Law

Combined degrees

Bachelor of Arts/Bachelor of Laws (Honours) Combined
Broader 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 Business/Bachelor of Laws (Honours) Combined
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 Coastal and Marine Science / Bachelor of Laws (Honours)
If you’re interested in blending your love of the ocean and marine conservation with a comprehensive understanding of the relevant legislation and court ruling stories that impact on marine environments, this combined degree is for you.

Bachelor of Commerce/Bachelor of Laws (Honours) Combined
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 Communication/Bachelor of Laws (Honours) Combined
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) Combined
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 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 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 Innovation and Entrepreneurship Combined/Bachelor of Laws (Honours) Combined
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 Science/Bachelor of Laws (Honours) Combined
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) Combined
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.

newcastle.edu.au/study/science-and-the-environment

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 Food Science and Human Nutrition
- Bachelor of Science
- Bachelor of Science (Advanced)

Also consider
- Bachelor of Biomedical Science
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Development Studies
- Bachelor of Environmental Engineering (Honours)
- Bachelor of Exercise and Sport Science
- Bachelor of Psychological Science
- Bachelor of Psychological Science (Advanced)
- Bachelor of Renewable Energy Engineering (Honours)

Top 200 in the world for Geography¹

Top 250 in the world for Environmental Sciences²

Top 3 in Australia for overall satisfaction for undergraduate Science and Mathematics students³

¹ ShanghaiRanking’s Global Ranking of Academic Subjects 2020
² QS World University Rankings by Subject 2020
³ Student Experience Survey 2019
The health of our planet matters

As a Bachelor of Science graduate with a major in Sustainable Resource Management, Emilee is working hard to make our planet a more environmentally sustainable place to live. During her studies, Emilee helped contribute to the mitigation of plastic pollution as a volunteer for Take 3 for the Sea. Now, Emilee hopes to use the knowledge she gained throughout her degree and combine it with her passion for the environment to reconnect people to the planet and inspire everyone to create change through simple actions.

Emilee
Bachelor of Science, 2019
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 change and resource management
• risk, vulnerability, adaptation and resilience
• water, energy and food security
• climate and energy
• Earth processes (including climatic, hydrological, coastal, soil)
• environmental sustainability
• human geography
• spatial science
• statistics

Practical experience
Through our partnerships with external industries and government agencies, you’ll also have the opportunity to engage in work – and research – integrated learning when you apply your studies to complete a major transdisciplinary capstone project in the final year.

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 and energy
• climate action and resilience
• climate change operations
• climate change policy/climatology
• ecology
• energy and resources
• environmental impact and assessment
• laboratory and research work
• meteorology

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’ll learn how to assess the impacts of climate variability and change. You’ll 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.

Imagine using living organisms to modify products for the better – like creating a new vaccine to save millions of lives. 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.

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
• molecular biology
• molecular genetics

Practical experience
This degree offers a 10-week full-time industrial placement. A feature of this degree is the separate courses focusing on laboratory skills, which provides students with a 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
• Laboratory Analyst
• Microbiologist

Accreditation
Our graduates can apply for membership to AusBiotech and specialist societies such as the Australian Society of Biochemistry and Molecular Biology. This provides 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 Coastal and Marine Science

2021 Selection Rank 62.60 | Median 73.85
Duration 3 yrs FT / 8 yrs PT

UAC Code 484026
484026

Location Newcastle – Callaghan
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.

What you will study
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 also have the opportunity to engage in 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 can lead to careers such as:

- Animal Biologist
- Botanist
- Conservationist/Ecologist
- Geographer
- Marine Biologist
- Oceanographer
- Environmental Consultant

Combine this degree with
- Bachelor of Laws (Honours) Combined

See the website for more information about this degree

Bachelor of Environmental Science and Management

2021 Selection Rank 62.00 | Median 80.15
Duration 3 yrs FT / 8 yrs PT

UAC Code 482750
482760

Location Newcastle – Callaghan
Central Coast – Ourimbah

Assumed knowledge Mathematics (Standard) 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 and develop tactics to combat them.

What you will study
Choose from one of the following majors:

- Ecosystems and Biodiversity
- Marine Science and Management
- Sustainability
- Natural Resources and Hazards
- Marine Biology
- Wildlife Conservation
- Environmental Consultants
- Environmental Science
- Water and Resource Management

Practical experience
From the first week of your degree you will gain real-world experience through fieldwork. This degree has a strong focus on field and lab work 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 research or Work Integrated Learning (WIL) experience in a private sector, government or community organisation.

Career opportunities
Graduates of the Bachelor of Environmental Science and Management can go on to develop regional solutions for a sustainable future and work in a diverse range of areas including conservation and ecology, environmental science, laboratory and research work, or urban and regional planning.

Some typical positions include:

- Botanist/Plant Scientist
- Climatologist
- Coastal Management Officer
- Environmental Consultant
- Environmental Health / Sustainability Officer
- Marine Scientist
- Water Resource Management Specialist

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 Science

**What you will study**

Graduates develop a strong foundation of the principles underlying the sciences of food technology and human nutrition. This includes basic sciences, 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 marketing and consumer behaviour
- Food product development
- Food safety and microbiology
- Nutrition in health and disease

**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. There are also opportunities for work placement and field trips that enable you to apply real-life experiences to your studies and give you a competitive edge.

**Career opportunities**

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:

- Flavorist
- Food Consultant
- Food Inspector
- Food Product Developer
- Food Product Marketer
- Food Scientist Technologist or Chemist
- Health Promotion Officer
- Nutritionist
- Quality Assurance 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
- 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)
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Laws (Honours) Combined
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)

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Bachelor of Food Science and Human Nutrition

**What you will study**

As an increasingly health-conscious society drives change, 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, and desirable to purchase. With a Bachelor of Food Science and Human Nutrition, you’ll stay up-to-date on the latest scientific developments and be equipped with the specialist knowledge and skills needed for a successful career in the food science, health and nutrition industries.

You will study topics including:

- Biotechnology
- Biochemistry
- Biomedical science
- Chemistry
- Essential nutrients
- Food safety and microbiology
- Nutrition in health and disease

**Practical experience**

From the first week of your degree you will be in the field, as we help develop your analytical, research and communication skills.

**Career opportunities**

Graduates develop a strong foundation of the principles underlying the sciences of food technology and human nutrition. This includes basic sciences, chemistry and biology of nutrients, and the attributes of foods including food commodities and functional foods.

You will study topics including:

- Biotechnology
- Biochemistry
- Biomedical science
- Chemistry
- Essential nutrients
- Food safety and microbiology
- Nutrition in health and disease

**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. There are also opportunities for work placement and field trips that enable you to apply real-life experiences to your studies and give you a competitive edge.

**Career opportunities**

The flexible structure of this degree can lead to careers such as:

- Flavorist
- Food Consultant
- Food Inspector
- Food Product Developer
- Food Product Marketer
- Food Scientist Technologist or Chemist
- Health Promotion Officer
- Nutritionist
- Quality Assurance 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
- 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)
- Bachelor of Innovation and Entrepreneurship Combined
- Bachelor of Laws (Honours) Combined
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)
Bachelor of Science (Advanced)

2021 Selection Rank
95.00 | Median 99.95  
Duration 3 yrs FT / 8 yrs PT

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<td>484035</td>
<td>Newcastle – Callaghan Central Coast – Ourimbah</td>
<td>Mathematics (Advanced)</td>
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</table>

Recommended studies
At least one of Biology, Chemistry, Physics or Earth and Environmental Science

Gone are the days of the stereotypical scientist – 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, exposure to the wider College of Engineering, Science and Environment community and opportunities to participate in Work Integrated Learning (WIL) and industry engagement.

What you will study
You can combine a mix of majors and electives to suit your study direction. You can choose to study in areas such as:
- biology
- chemistry
- earth science
- environmental science
- geography
- mathematics and statistics
- physics
- psychology

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. You will also take part in field trips, seminar presentations and workshops to enhance classroom theory and apply it to real-life situations.

Career opportunities
The flexible structure of this degree can lead to careers such as:
- Animal Biologist
- Botanist
- Chemist
- Geologist
- Mathematician
- 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.

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 Chemical Engineering (Honours)/Bachelor of Science (Chemistry (Advanced Materials) major)
Enhance your understanding of chemical synthesis and processing, increasing your employment opportunities in a variety of fields including toxicology, pharmacy, biochemistry and forensics.

Bachelor of Coastal and Marine Science/Bachelor of Laws (Honours)
If you’re interested in blending your love of the ocean and marine conservation with a comprehensive understanding of the relevant legislation and court ruling stories that impact on marine environments, this combined degree is for you.

Bachelor of Computer Systems Engineering (Honours)/Bachelor of Science (Physics major)
The immense field of science is exciting and always evolving. Apply your creativity to technology and work across industries like computer design, cyber security research and communication networks.

Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science (Physics major)
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)
Integrate your passion for chemistry or biology with geomechanics and hydrology, to specialise in solving complex environmental problems including reducing long-term environmental impacts and improving resource usage.

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 Mathematics/Bachelor of Science
Enhance your multidisciplinary skills and apply your mathematical knowledge to a broad range of scientific industries and contexts such as research, agriculture and the environment.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Science (Physics major)
Complement your love of physics with mechanical engineering and use innovative technologies such as robotics and advanced materials to revolutionise power plants, aircraft engines, race cars, air conditioners and more.

Bachelor of Science/Bachelor of Innovation and Entrepreneurship Combined
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 Science/Bachelor of Laws (Honours) Combined
Apply your scientific knowledge to a range of legal contexts including industry, agriculture and the information revolution.
Society and Culture

Art, language, history, English and writing, Indigenous studies, politics, and religion. There’s so much to explore in the area of society and culture, and even more career pathways for you to follow. Develop diverse skills across a broad range of subjects, or hone in on a specialisation that suits your interests. Whether you want to become a curator, creative director or producer, a translator or journalist, or a community development manager or cultural heritage conservationist – a degree in the area of society and culture will help you get there.

newcastle.edu.au/study/society-and-culture

Degree options
- Bachelor of Arts
- Bachelor of Global Indigenous Studies
- Diploma in Languages

Also consider
- Bachelor of Development Studies
- Bachelor of Laws (Honours) Combined
- Bachelor of Music

Top 150
in the world for Sociology

No. 3
in Australia for overall satisfaction for undergraduate Social Work graduates

89.5%
of undergraduate Social Work graduates found employment within four months

1 QS World University Rankings by Subject 2020
2 Course Experience Questionnaire 2019-2020
3 Graduate Outcomes Survey 2019
Creating positive social change matters

Samantha believes in the power of words to change the world. Her dream of becoming an author stems from her desire to inform world issues and shine a light on human rights and individual freedom.

Born with a radial limb deficiency, Samantha says her disability taught her how to be resilient, and she wasn’t going to let it limit what she could achieve.

Currently studying a Bachelor of Arts, Samantha believes that through her learning and education she can create positive change. Once she graduates, Samantha plans on becoming a novelist where she hopes to inspire people with her stories. In her words, “people need to see themselves in works of fiction, they need to know what they’re capable of and they need to know that there are no limits.”

Samantha
Bachelor of Arts
Ma & Morley Scholar
Society and Culture

Bachelor of Arts

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<th>Duration</th>
<th>UAC Code</th>
<th>Location</th>
<th>Recommended studies</th>
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<td>62.00</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>482010 482040</td>
<td>Newcastle – Callaghan</td>
<td>English (Advanced) (for all majors) and Mathematics (Standard or Advanced) (for Psychology Studies major)</td>
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</table>

If you want to expand your knowledge of the world and human culture, hone your critical thinking skills, and be inspired by creativity, communication, and knowledge in the past and the present, then a Bachelor of Arts is for you. Be guided by scholars of international standing as you develop a collaborative research project or use your writing skills to interpret and analyse language and culture – spanning literary, audiovisual, and other forms. With a broad range of majors, minors and learning streams, this degree allows you to test out your interests and design a program best suited to what you want to study and where you want to go in life.

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
- Film, Media and Cultural Studies
- German
- Global Indigenous Studies
- History
- Human Geography and the Environment
- Japanese Studies
- Linguistics
- Politics and International Relations
- Psychology 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
You will gain detailed knowledge and skills and enjoy opportunities to apply your learning through relevant work experience programs – developing key employability skills useful to a range of careers. Choose from Work Integrated Learning (WIL) courses, independent projects or placements to help you reach your career goals.

Career opportunities
Our graduates enjoy great employment prospects with over 80% securing jobs upon completion of their degree. 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 Global Indigenous Studies

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<td>3 yrs FT / 8 yrs PT</td>
<td>482001 482002</td>
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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 aware and innovative social advocates and is open to all students. Some selected majors are available fully online.

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
- Politics and International Relations

Minor studies are available in:
- Gender and Sexuality Studies
- Writing Studies
- Information Technology

Practical experience
A placement course will allow you to apply your theoretical knowledge in a practical setting. This degree is delivered through combined online and face-to-face learning – providing a flexible study program.

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 Conservator
- 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
What you will study
Proficiency in another language will enrich your personal growth and skill set. You can focus on just one language, or select multiple languages:

- Chinese
- French
- German
- Japanese

AUSLAN and Indigenous language courses available as Directed or Elective options.

Practical experience
Our program offers courses that cover a range of language competencies, including speaking, listening, reading and writing in formal and informal contexts. In-country language courses and overseas study experiences are also available.

Career opportunities
In today’s increasingly competitive and multicultural job market, our graduates enjoy unique opportunities, advantages and broader career options. Language study enhances travel opportunities and is an unrivalled way to gain cross-cultural understanding. You may find yourself promoted to lead a company’s largest business deal because of your language skills, or perhaps influence government legislation because of a deeper understanding of migrant communities and their differences.

Learning one or more foreign languages develops in-demand skills and opens many doors to diverse careers, travel and other unique opportunities. The Diploma in Languages is available to Australian students and is studied in conjunction with an undergraduate degree, which means you’ll finish with two qualifications in less time.

2021 Selection Rank
N/A | Median N/A

Duration
2 - 6 yrs PT

UAC Code
489981

Location
Newcastle – Callaghan

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 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 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 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 Music/Bachelor of 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.
The University of Newcastle
Central Coast campuses
- Ourimbah
- Gosford

The University of Newcastle
City campus
- Conservatorium
- NUspace
- Honeysuckle

Newcastle Interchange
Train/Light Rail

Darby Street
Entertainment area

Honeysuckle
Waterfront entertainment area

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.
Open Days

Every year we invite you to spend the day with us at our annual Open Days. These events give you the chance to explore our facilities and talk to current students and staff about life on campus, 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 Week Online site where we’ve put together webinars and on-demand videos to help you find the information you’re looking for.