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The University of Newcastle acknowledges the traditional custodians of the lands on which our offices are located. The Worimi nation and the Pambalong clan of the Awabakal nation (Newcastle), Darkinung people (Central Coast) and Biripai people (Port Macquarie). 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.
You’re a problem-solver, and an analyser.
You’re a strategist, and a creator.

You’re seeking something.
Experiences. Horizons. A different outlook.
You’re bringing something.
New thinking, perspectives. Fresh eyes, to see tomorrow’s challenges.

You’re dreaming. Of opportunities for all.
Of new heights we can reach, together.
You’re doing. Work, that pushes what’s possible.
You’re developing. Ideas, that bring answers to global problems.

You’re ending a chapter. You’re beginning a journey.
A new one, full of complexities and challenges.
New ways of being, thinking, and doing.

So, if you’re ready to embrace opportunity
To chase your dreams and thrive
Now is the time.
Because your purpose won’t just find you.
Find your new.
## WHERE TO START?

### YOU LIKE

- Business Studies, Economics, Maths
- Art, Business Studies, Design and Technology, Economics, Geography, Maths, Physics
- Business Studies, English, Geography, Languages, Maths
- Art, Design and Technology, Drama, Movies and Television, Writing, Music and Social Media
- Biology, Community and Family Studies, Health and Physical Education, Maths, Society and Culture
- Business Studies, Design and Technology, Engineering Studies, Industrial Technology, Maths, Physics
- Art, Design and Technology, Drama, English, Geography, Health and Physical Education, History, Maths, Music, Science
- Business Studies, Chemistry, Design and Technology, Engineering Studies, Industrial Technology, Maths, Physics, Science
- Biology, Chemistry, Food Technology, Health and Physical Education, Maths, Science, Physics
- Business Studies, Economics, English, Languages, Legal Studies, Media and Entertainment Studies
- Biology, Business Studies, Chemistry, Economics, Geography, Health and Physical Education, Information Technology, Maths, Physics
- Art, English, Geography, History, Languages, Music, Religion, Society and Culture

### YOU COULD STUDY

- **ACCOUNTING AND FINANCE**
  - Accountant, Economist, Financial Planner, Investment Banker, Mortgage Broker, Stockbroker
- **ARCHITECTURE, BUILDING AND CONSTRUCTION**
  - Architect, Building Certifier, Drafter, Product Designer, Project Manager, Property Developer
- **BUSINESS AND ENTREPRENEURSHIP**
  - Account Manager, Business Development Officer, Entrepreneur, Human Resources Officer, Marketing Officer, Sports Development Officer
- **COMMUNICATION AND CREATIVE INDUSTRIES**
  - Animator, Artist, Copywriter, Filmmaker, Graphic Designer, Journalist, Multimedia Designer, Musician, Public Relations Officer
- **COMMUNITY SERVICES**
  - Aid Worker, Migrant Support Officer, Social Worker, Town Planner, Youth Worker
- **COMPUTING, MATHS AND TECHNOLOGY**
  - Computer Game Developer, Computer Scientist, Meteorologist, Renewable Energy Project Officer, Risk Analyst, Web Developer
- **EDUCATION**
  - English as a Second Language Teacher, Learning and Development Consultant, Sport and Recreation Officer, Special Education Teacher, Teacher
- **ENGINEERING**
  - Computer Architect, Environmental Impact Consultant, Prosthetics Designer, Robotics Engineer, Satellite Engineer, Structural Engineer, Surveyor, Urban Development Engineer
- **HEALTH AND MEDICAL SERVICES**
  - Dental Therapist, Dietitian, Doctor, Exercise Scientist, Midwife, Nuclear Medicine Technologist, Nurse, Occupational Therapist, Pharmacist, Physiotherapist, Podiatrist, Psychologist, Radiographer, Speech Pathologist, Surgeon
- **LAW**
  - Contracts Manager, Industrial Relations Officer, International Aid Worker, Lawyer, Lobbyist, Political Adviser
- **SCIENCE AND THE ENVIRONMENT**
  - Botanist, Climate Change Analyst, Food Scientist, Forensic Chemist, Geologist, Marine Biologist
- **SOCIETY AND CULTURE**
  - Cultural Heritage Conservator, Community Development Worker, Demographer, Historian, Media Analyst, Translator

## 2020 UNDERGRADUATE DEGREES

### ACCOUNTING AND FINANCE

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<thead>
<tr>
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### ARCHITECTURE, BUILDING AND CONSTRUCTION

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### BUSINESS AND ENTREPRENEURSHIP

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<td>* Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)</td>
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<td>* Bachelor of Science/Bachelor of Innovation and Entrepreneurship</td>
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### COMMUNICATION AND CREATIVE INDUSTRIES

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### COMMUNITY SERVICES

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### COMBINED DEGREES

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## COMPUTING, MATHS AND TECHNOLOGY

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### COMBINED DEGREES
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Science
- Bachelor of Computer Engineering (Honours)/Bachelor of Computer Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business

## EDUCATION

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### COMBINED DEGREES
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- Bachelor of Education (Secondary)/Bachelor of Business

## ENGINEERING

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### COMBINED DEGREES
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- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Civil Engineering (Honours)/Bachelor of Science
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Math and Science
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Civil Engineering (Honours)/Bachelor of Science
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science

## HEALTH AND MEDICAL SERVICES

### DEGREE NAME | DURATION | 2019 SR | PAGE |
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<td>3 yrs FT / 8 yrs PT</td>
<td>N/A</td>
<td>84</td>
</tr>
<tr>
<td>Bachelor of Public and Community Health</td>
<td>3 yrs FT / 6 yrs PT</td>
<td>N/A</td>
<td>85</td>
</tr>
<tr>
<td>Bachelor of Speech Pathology (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>77.20</td>
<td>89</td>
</tr>
</tbody>
</table>

### COMBINED DEGREES
- Bachelor of Biomedical Science/Bachelor of Business
- Bachelor of Exercise and Sport Science/Bachelor of Business
- Bachelor of Food Science and Human Nutrition/Bachelor of Business
- Bachelor of Medical Radiation Science/Bachelor of Business
- Bachelor of Medical Science and Doctor of Medicine (Joint Medical Program)/Bachelor of Business
- Bachelor of Midwifery/Bachelor of Business
- Bachelor of Nursing/Bachelor of Business
- Bachelor of Nutrition and Dietetics (Honours)/Bachelor of Business
- Bachelor of Occupational Therapy (Honours)/Bachelor of Business
- Bachelor of Oral Health Therapy/Bachelor of Business
- Bachelor of Pharmacy (Honours)/Bachelor of Business
- Bachelor of Physiotherapy (Honours)/Bachelor of Business
- Bachelor of Podiatry/Bachelor of Business
- Bachelor of Psychological Science/Bachelor of Business
- Bachelor of Psychological Science (Advanced)/Bachelor of Business
- Bachelor of Public and Community Health/Bachelor of Business
- Bachelor of Speech Pathology (Honours)/Bachelor of Business

## LAW

### DEGREE NAME | DURATION | 2019 SR | PAGE |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Laws (Honours) Combined</td>
<td>5 yrs FT</td>
<td>N/A</td>
<td>92</td>
</tr>
</tbody>
</table>

### COMBINED DEGREES
- Bachelor of Arts/Bachelor of Laws (Honours)
- Bachelor of Business/Bachelor of Laws (Honours)
- Bachelor of Commerce/Bachelor of Arts/Bachelor of Laws (Honours)
- Bachelor of Communication/Bachelor of Arts/Bachelor of Laws (Honours)
- Bachelor of Development Studies/Bachelor of Laws (Honours)
- Bachelor of Science/Bachelor of Laws (Honours)
- Bachelor of Social Science/Bachelor of Laws (Honours)

## SCIENCE AND THE ENVIRONMENT

### DEGREE NAME | DURATION | 2019 SR | PAGE |
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<tr>
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</thead>
<tbody>
<tr>
<td>Bachelor of Biotechnology</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>64.05</td>
<td>96</td>
</tr>
<tr>
<td>Bachelor of Coastal and Marine Science</td>
<td>5 yrs FT / 8 yrs PT</td>
<td>N/A</td>
<td>96</td>
</tr>
<tr>
<td>Bachelor of Environmental Science and Management</td>
<td>5 yrs FT / 8 yrs PT</td>
<td>64.70</td>
<td>97</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>60.25</td>
<td>97</td>
</tr>
<tr>
<td>Bachelor of Science (Advanced)</td>
<td>5 yrs FT / 8 yrs PT</td>
<td>N/A</td>
<td>98</td>
</tr>
</tbody>
</table>

### COMBINED DEGREES
- Bachelor of Arts/Bachelor of Science
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Civil Engineering (Honours)/Bachelor of Science
- Bachelor of Development Studies/Bachelor of Science
- Bachelor of Environmental Science and Management/Bachelor of Science
- Bachelor of Environmental Science (Honours)/Bachelor of Science
- Bachelor of Environmental Science (Honours)/Bachelor of Business
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science
- Bachelor of Environmental Engineering (Honours)/Bachelor of Business

## SOCIETY AND CULTURE

### DEGREE NAME | DURATION | 2019 SR | PAGE |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.30</td>
<td>100</td>
</tr>
<tr>
<td>Bachelor of Global Indigenous Studies</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>68.35</td>
<td>101</td>
</tr>
<tr>
<td>Diploma in Languages</td>
<td>2-6 yrs PT</td>
<td>N/A</td>
<td>103</td>
</tr>
</tbody>
</table>

### COMBINED DEGREES
- Bachelor of Arts/Bachelor of Innovation and Entrepreneurship
- Bachelor of Arts/Bachelor of Laws (Honours)
- Bachelor of Development Studies/Bachelor of Global Indigenous Studies
- Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours)
- Bachelor of Music/Bachelor of Arts

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1. Combined Degree only. See degree information for individual Selection Bands.
2. See degree information for further details.
3. This is a new degree. Undergoing final University approval.
4. This is a new degree.
5. JAM = other select criteria.
Thank you for thinking about studying at the University of Newcastle.

For more than 50 years we have specialised in delivering world-class education to talented students, just like you, from right across the globe. In fact, with 37,677 students from 114 countries, you’ll always feel welcome here.

We are recognised by QS World University Rankings 2019 as number 214 globally, and 10 of our subjects are in the top 200 of the QS World University Rankings by Subject 2019.

Our degrees focus on real-world experience, strong connections to local industry, entrepreneurial opportunities and interactive teaching and learning. Our degrees are shaped around work placements, global learning and entrepreneurial approaches to study.

We offer the latest technologies and innovative learning spaces, including a new $95 million New Space facility, to deliver an exceptional educational experience.

The University of Newcastle is proud of its strong connections to the local community. Many of our lecturers work directly with local industry, and as a student you will benefit from countless opportunities that arise from this unique access to business and government. We also believe in connecting your degree with research that delivers real impact, and we’re proud that our researchers are among the world’s best. As a student, you will 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 campus.

Professor Alex Zelinsky AO
Vice-Chancellor and President

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1 QS World University Rankings 2019
2 2019 Good Universities Guide
3 University of Newcastle Indigenous Enrolments 2016
COMMITMENT TO EQUITY

Our University is home to many talented, enthusiastic and diverse students – just like you – 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.

Our different 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.

ACCESSIBILITY

We're committed to providing an equitable learning environment for all future and current students – including those with a disability 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/current-students/support/accessability

A LEADER IN INDIGENOUS EDUCATION

We've been a leader in Indigenous education in Australia for more than 30 years – with one of the largest Aboriginal and Torres Strait Islander enrolments in the country. Together with the world-renowned Wollotuka Institute, we're contributing to the advancement and leadership of Indigenous education at a local, national and international level.

When you come to Wollotuka, you’ll be supported by experienced staff, Elders and cultural leaders, and fellow students who will encourage and help guide you throughout your studies.

In addition to the Yapug enabling pathway program, Wollotuka also provides scholarships, tutorial assistance, employment opportunities and other services and assistance during your undergraduate or postgraduate study.

Above all, Wollotuka provides an inclusive environment where Indigenous and non-Indigenous students can come for support, advice, collaboration and knowledge-sharing. The space is one where you can connect with other students and community – a home away from home while studying at the University of Newcastle.

newcastle.edu.au/wollotuka

52% DOMESTIC UNDERGRADUATE ENROLMENTS ARE 'FIRST IN FAMILY'1

Kieran is a proud Wiradjuri man from Dubbo, a graduate of the Yapug pathway program, and current Joint Medical Program student. He embodies the meaning of determination, having already overcome significant hardship to get to where he is today.

“My early childhood had all the right ingredients for a failed adulthood, including alcoholism, domestic violence and the Department of Family and Community Services.

“I wanted to break this cycle and be a good, strong male role model for my kids when I have them, and to my siblings coming up behind me. Becoming a medical doctor is something I never thought possible.

“After working for the New South Wales Government for seven years and doing some good work in the community I was determined to be more and maximise my potential. That’s when I decided to become a doctor to help my people and, with some research, discovered Yapug and the Joint Medical Program.”

It was at this time that Kieran’s potential and strong sense of social justice was recognised by the University of Newcastle and he was awarded a 2019 Ma & Morley Scholarship to help him on his journey.

“This scholarship has allowed me to leave my job and focus all my time on my undergraduate degree to get the best marks possible. Being able to learn from socially conscious leaders and like-minded people will also give me skills and ideas that I can implement back in my community when I finish my degree,” Kieran said.

Kieran
Bachelor of Medical Science and Doctor of Medicine (Joint Medical Program)
2019 Ma & Morley Scholar
Completed Yapug, 2018
Ways of Teaching

Your degree is about more than just textbooks and tutorials, libraries and lectures. When you study here, you’ll collaborate with teachers, industry professionals, and other students and focus on interactive learning. Maybe you’ll practice teaching students 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.

Virtual Window into Pregnancy

Virtual reality brings our imaginations to life. Now, we’re using it to help save lives – the lives of newborn infants.

The University of Newcastle researchers and IT Innovation Team have developed a first-of-its-kind project using virtual reality as a training tool for our midwifery students.

“Not only does this technology introduce our students to the realism of anatomy – it bridges the gap between classroom and delivery suite and helps them perform better under pressure.”

Dr Donovan Jones
Program Convenor
Nursing and Midwifery (Honours)

TeachLive

Just like pilots use flight simulators, our virtual reality teaching tool TeachLive allows Bachelor of Education students to develop and test their skills in a virtual classroom – complete with student avatars.

1,107 Academic Staff

10 in Top 200
10 Subjects Ranked in the Top 200 in the World

37,677 Students
From 114 Nations
Educated and Supported by 2,680 Full-Time Equivalent Staff
“It’s just amazing that the University can offer us things like this course, and opportunities like filming a music video with The Living End.”

Sarah
Bachelor of Communication (Media Production)

“It was really great to experience what it’s like working in the real world as a composer. It’s invaluable when you’re trying to turn this thing you love into a career.”

Dylan
Bachelor of Music

“To have something like this on my resume will distinguish me from the rest of the pack.”

Grace
Bachelor of Business

REAL-WORLD EXPERIENCE

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

We’ve got partnerships with local and global organisations meaning everything you study is shaped by the real world. Maybe you’ll intern with your favourite sporting team, work with communities in central Australia to build better housing, compose a piece of music alongside a top Australian artist, or get a behind-the-scenes look at how a national event comes together.

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

ILEAD PLUS

ILEAD Plus is a global-facing leadership program that connects students with local, national and international alumni to accelerate professional development and career readiness.

The leadership program combines face-to-face workshops, online learning, personal mentorship with University alumni, professional placement, and a range of global experience opportunities.

Build the skills, traits and perspectives you need to be the leader of tomorrow.

newcastle.edu.au/ilead
 Bachelor of Commerce alumni Joshua Fellows, Charlie Hoswell and Chris Baker (pictured) co-founded BlockSmart Capital in 2018. It’s one of Australia’s first investment companies solely directed towards digital assets and the crypto market. And with support from I2N and other University programs, they’re shaking things up in the investment world.

Whether you’ve got an idea you want to test out, or you’re looking to scale up your existing business and go global, the University of Newcastle’s Integrated Innovation Network (I2N) can help. Offering co-working spaces, entrepreneurship programs and partnerships, I2N supports entrepreneurs and businesses to upskill, develop and test ideas and make valuable industry connections.

"I2N helped us realise opportunities, access resources and make connections we otherwise wouldn’t have made. It has really helped us fast-track our business. And the workshops we attended covered skills essential to the success of a startup – things like financial modelling or digital marketing.

I2N is at the core of the entrepreneurial scene in Newcastle. If you’re in the startup space – or wanting to get there – you need to get involved with I2N.”

Chris
Bachelor of Commerce, 2018
Co-Founder, BlockSmart Capital

ENTREPRENEURIAL OPPORTUNITIES

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 idea to the next level. We want you to think outside the square (as clichéd as that sounds) and create your own path – like many other students have before you.

In return, we can offer the facilities, courses, mentors and support to help you succeed. Sign up to one of our innovation or entrepreneurship courses, get guidance on your startup at the 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.

"1 league table 2017 Innovation Connections program, Ausindustry
EXPERIENCES ACROSS THE GLOBE

Are you keen to take your studies around the world? When you study here, you’ll have the chance to 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.

Discover new cultures, try new food and make friends from all over the world. With more than 180 partner universities spanning all major continents, it really is the chance of a lifetime.

newcastle.edu.au/studyoverseas

#UONGLOBALTRAVELLER
WHERE YOU’LL STUDY

Our campuses are welcoming, inspiring and collaborative environments.

No matter where you study – whether it’s Newcastle (Callaghan), Newcastle City, Central Coast (Ourimbah), Sydney, Port Macquarie or Singapore, or even one of our five regional centres in Tamworth, Armidale, Taree, Moree and Orange – we provide connected and global learning across all of our locations.

newcastle.edu.au/campus

NEWCASTLE CAMPUS CALLAGHAN

Our Newcastle campus is a central hub for education, humanities, social science, and the field 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 childhood facilities, and local defence and industrial hubs are all in close proximity to our campus. This central location offers endless opportunities to engage with industry and leaders in your field of study, while developing practical skills through work-integrated learning. Our global research partnerships mean we’re perfectly placed to deliver innovation with impact and a hands-on, technology-rich student experience.

NEWCASTLE CITY CAMPUS

In the heart of Newcastle CBD, our City campus provides an integral link with industry in creativity, business and law. The campus is a vibrant hive of innovation right on the doorstep of the city centre. Our state-of-the-art NeW Space building 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 will become the home of the creative industries and will enrich the student learning experience with specialised studios and technologies, while also offering shared spaces for students, staff, industry and community to enjoy.

CENTRAL COAST CAMPUS OURIMBAH

Our Central Coast campus is proud to celebrate 30 years of world-class teaching, learning and research – offering a broad range of specialised degrees and excellent student support services. The social, community-based learning hub inspires local students to make a difference on a global scale. The flexible study options available at the Central Coast campus take advantage of booming local industry – with a particular focus on education, humanities and social sciences, business, nursing, food, health and sport science. In addition to having access to top-quality research and testing facilities, our strong regional partnerships will ensure that your learning is embedded with hands-on experience.

PORT MACQUARIE CAMPUS

Our Port Macquarie campus provides programs to help meet the growing needs of the Mid North Coast region. Industry partnerships foster top-quality student experiences and hands-on training offers active roles within local education and healthcare facilities.

We acknowledge the traditional Aboriginal owners of the lands on which our offices are located:

The Pambalong Clan of the Awabakal Nation
Newcastle (Callaghan) campus
The Awabakal and Worimi Nations
Newcastle City campus
Darkinung People
Central Coast (Ourimbah) campus
Biripai People
Port Macquarie campus
Love getting active outdoors? Take a walk by the lake along the Warners Bay Esplanade, visit the trails and tracks of Glenrock State Conservation Area, and don’t forget to check out some of Newcastle’s rich history at Fort Scratchley or Nobbys Lighthouse too.

**TOP 10 THINGS TO SEE AND DO IN NEWCASTLE**

1. **Take a dip at Merewether Beach** which is home to the largest annual surfing festival in the Southern Hemisphere – Surfest. If catching waves isn’t your thing, you can laze by the pristine ocean baths instead or enjoy the view from Merewether Surfhouse.

2. **Explore the city by bike** or the new light rail system. Zip from NewSpace to the beach and explore Newcastle’s Bathers Way – our 5km coastal path which connects you from the Harbour all the way to the Merewether Ocean Baths. Head to Darby Street for a serious caffeine fix or spend your study break soaking up some Vitamin D at King Edward Park.

3. **Treat yourself to a fine dining experience** at one of Newcastle’s best restaurants like Subo, Restaurant Mason or Nagisa on Honeysuckle foreshore. If you’re craving a more casual bite (with a side of people watching), stop by Scotties, Talalah Bar, or The Lucky.

4. **Shop cool collectables** and vintage fashion at events curated by Hunt & Gather and for unique design pieces, don’t miss the monthly Olive Tree Market.

5. **Sample some great local produce** at the farmers market on Sunday mornings at the Showground. Or, if you prefer to sleep in, visit one of the many cafes lining Beaumont or Darby Street – they’ve carefully selected only the best local produce and coffee for you.

6. **Catch some live music** at the iconic Cambridge Hotel, or festivals like Groovin The Mop or Live At The Foreshore. Newcastle is renowned for its killer music scene, and there are always plenty of home-grown and international gigs to enjoy.

7. **Check out an exhibition** at Newcastle Art Gallery, Newcastle Museum, or our very own student art gallery, Watt Space.

8. **Take a road trip to the Central Coast**, just an hour south of Newcastle, 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.

9. **The good coffee doesn’t stop at the city.** Grab a takeaway brew from one of our beachside kiosks and enjoy a stroll along our idyllic coastline while you’re there.

10. **Cost of Living**
While Newcastle’s beaches and laid-back lifestyle are a major drawcard, so is the money you could save by making the sea change. According to Numbeo, it’s 25.8% cheaper to live in Newcastle than Sydney – think of the fun you could have with all that extra cash.

**Cost of Living**

While Newcastle’s beaches and laid-back lifestyle are a major drawcard, so is the money you could save by making the sea change. According to Numbeo, it’s 25.8% cheaper to live in Newcastle than Sydney – think of the fun you could have with all that extra cash.

**Visit Newcastle**

visitnewcastle.com.au
visitcentralcoast.com.au
STUDENT LIFE

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/campuslife

CAFES AND LIVE MUSIC

Whether it’s a good coffee to kick-start your day, a game of pool with friends, a cold drink after a long day of lectures or a tasty meal, we’ve got you covered with a wide range of cafes, food outlets and bars on campus. 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 or even Newcastle’s iconic Cambridge Hotel.

FESTIVALS AND EVENTS

No matter which campus you study at, there are always events happening during the semester. From Orientation to Autonomy Day and plenty of parties in between, there is no shortage of social activities. Take part in study workshops, get involved in health and fitness programs, attend presentations from international scholars, or simply kick back and enjoy a great film at Movies by Moonlight.

CLUBS AND SOCIETIES

The University is home to over 150 clubs, societies and social groups who are always looking for new members. Are you a budding mountaineer? Art appreciator? A diver? Dancer? Anime enthusiast? Be part of something new, something exciting. Challenge yourself or just have fun.

newcastle.edu.au/clubs

STAY ACTIVE

Callaghan has an on-campus gym – The Forum – which also features a secondary location just 500 metres from NeW Space. Facilities across both sites include a 50-metre indoor pool, cardio and strength training zones, rock climbing wall, cycle zone, group fitness classes and multi-purpose courts.

theforum.org.au

We also offer a number of sporting ovals which can be used for a wide range of activities, and shared paths make walking, jogging and cycling around campus easy.

The new covered outdoor recreation area (CORA) at the Central Coast campus provides a great place for students to be active, social and engaged all year round.

GETTING AROUND

We aim to make transport on and off campus simple.

Access via train is available for both Callaghan (Warabrook station) and Central Coast campuses (Ourimbah station) and if you’re studying at NeW Space, 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 NeW Space offer showers and secure storage.

A free city shuttle also runs between Callaghan and NeW Space every 30 minutes during semester.

SERVICES ON HAND

There are a wide range of shops and services available to make campus life easier, including:

- bank
- book shop and other retailers
- medical centre and pharmacy
- post office
- childcare
- counselling

newcastle.edu.au/services
While the thought of moving away from your hometown 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 an option that will fit.

newcastle.edu.au/accommodation

**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

**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 students – including those with special needs – at our Newcastle and Central Coast campuses.

When you live on campus, you’ll be able to access world-class student living, 24/7 security, 24-hour support and wellbeing services, academic support, a dedicated Health and Wellbeing Coordinator and our exciting and unique ResLife Program.

**WHERE CAN I LIVE?**

With nine different residences to choose from across our Callaghan and Ourimbah campuses, you’re sure to find the right fit. Whether you’re looking for private accommodation or shared rooms and facilities, fully-catered, semi-catered or self-catered living, we’ve got plenty of options.

Your accommodation costs cover a number of facilities and services including 24-hour security, internet access, two swimming pools, a large communal kitchen, laundry facilities and socialising equipment in common rooms across the precinct such as televisions, table tennis and foosball. Students living on campus at Callaghan also have exclusive access to a free shuttle bus to the nearby shopping precinct.

newcastle.edu.au/accommodation
ENTRY OPTIONS

SCHOOL LEAVERS

If you’re coming to university straight after finishing high school, there are a number of entry options available to you.
newcastle.edu.au/schoolleaver

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 help schemes that may help you secure your place here.

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 up to five adjustment points if you went to a regional or rural school in selected postcodes.

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

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

Schools Recommendation Scheme (SRS)
A way to receive an offer based on factors in addition to your ATAR or SR.

Aboriginal and Torres Strait Islander Admissions Scheme
This scheme helps Aboriginal and/or Torres Strait Islander applicants gain entry into our degrees. When you complete your UAC application, make sure you indicate that you are Aboriginal and/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

Looking to apply for university but you haven’t completed the HSC within the last 32 months? That means you’re considered a non-school leaver.

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.

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.

NON-SCHOOL LEAVERS

newcastle.edu.au/nonschoolleaver

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.

CREDIT TRANSFER

If your TAFE or other 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.
PATHWAYS

We’re proud to be the largest provider of enabling programs in Australia. If you don’t have the qualifications required for direct entry, we offer you the opportunity to access university studies, regardless of your background or level of previous education.

The programs are offered free of charge and are designed to help you develop the skills needed to gain entry to an undergraduate degree and support you for success once you’re in.

Upon successful completion of the programs, you’re guaranteed early entry to selected undergraduate degrees at the University of Newcastle. The programs can also be used for competitive admission to all other University of Newcastle degrees (excluding Medicine for Open Foundation admission to all other University of Newcastle programs can also be used for competitive admission to all other University of Newcastle degrees). The programs are also used for competitive admission to all other University of Newcastle degrees (excluding Medicine for Open Foundation admission to all other University of Newcastle programs).

NEWSTEP

If you were unable to complete Year 12 or missed the chance to get the marks needed for university entry, our Newstep program offers another pathway for you. Newstep is a one-year enabling program offered at Newcastle and Central Coast campuses. If you’re unable to complete Year 12 or missed the chance to get the marks needed for university entry, Newstep can help you gain skills for entry into undergraduate degrees at the University of Newcastle.

The programs are offered free of charge and are designed to help you develop the skills needed to gain entry to an undergraduate degree and support you for success once you’re in.

OPEN FOUNDATION

If you are seeking a new career direction, considering attending university or looking to further pursue your interests, our Open Foundation program can help make this happen. Open Foundation is offered in three flexible delivery modes:

- online
- part-time
- full-time

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

To be eligible for this program, you must:

- have attempted Year 12
- be an Australian citizen or permanent resident currently living in Australia.

newcastle.edu.au/newstep

newcastle.edu.au/openfoundation

SCHOLARSHIPS

You might be bursting with new ideas, passion, and potential. But without support, attending university can sometimes seem impossible.

With the help of our scholarship program, you have the opportunity to develop your talent and explore your possibilities.

There are hundreds of scholarships on offer, including:

- scholarships for academic achievement
- support for individuals with financial hardship and educational disadvantage
- support for Indigenous students
- opportunities to travel, perform, play sport, relocate, or gain global experience

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

newcastle.edu.au/scholarships

YAPUG

ABORIGINAL AND/OR TORRES STRAIT ISLANDER STUDENTS

Yapug is a pathway program designed to help Aboriginal and/or Torres Strait Islander people gain skills for entry into undergraduate degrees at the University of Newcastle.

Delivered in partnership between the Wollotuka Institute and English Language Foundations Studies Centre (ELFSC), 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.

To be eligible for this program, you must be:

- of Aboriginal and/or Torres Strait Islander descent.

newcastle.edu.au/yapug

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 commitment by Chinese entrepreneur Jack Ma, in honour of his lifelong friendship with respected Novocastrian Ken Morley.

Ma & Morley Scholars receive:

- Up to $75,000 in financial assistance
- Global immersion experiences
- Enrichment and values-based leadership program
- Lifelong bonds and friendships

newcastle.edu.au/ma-morley

“I grew up in north west Tasmania. I never did my HSC, so I wasn’t able to go to uni – and I never thought I would. But after six years driving trucks, I realised it was something that I wanted. The University’s Open Foundation program made that possible.”

Nathaniel Arnold
Bachelor of Education (Secondary)
Ma & Morley Scholar

“The Program made that possible.”

Phoebe McIlwraith
Bachelor of Business/Bachelor of Laws (Honours)
Ma & Morley Scholar

“You don’t have to have gone to the best school. You don’t have to have come from the best suburb. You just have to be an authentic person who wants to create change. The Ma & Morley Scholarship has given me a community. It’s given me a sense of place. And it’s something that will continuously open doors for me.”

“...and organisations who share our belief that everyone with talent and dedication deserves the chance to pursue their dreams. Apply today.”

newcastle.edu.au/mamorley

newcastle.edu.au/yapug

newcastle.edu.au/openfoundation

newcastle.edu.au/newstep

newcastle.edu.au/scholarships

newcastle.edu.au/ma-morley

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

ASSUMED AND RECOMMENDED KNOWLEDGE
Assumed knowledge should be studied prior to 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 highly recommended 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 UON 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

COMBINED DEGREES
Studying a combined degree means you gain two qualifications at once. The advantage is you graduate with two degrees in less time.

FACULTY
An overarching division with responsibility for academic programs, often with a number of sub-units called Schools. All degrees will be owned by a particular faculty of the University.

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, HECS-HELP benefit and income support.

newcastle.edu.au/assistance

LEARNING FORMATS
- Flipped classrooms: moves lectures online for students to learn the basics, then attend an in-depth class with a larger student cohort facilitated by one or more academics.
- Laboratories: gives you a chance to practice and experiment with what you are learning.
- Lectures: taught by lecturers and professors, these provide the theory component of your area of study.
- Tutorials: small classes run by tutors where students have the opportunity to explore and ask questions.
- Workshops: practical classes that give you a chance to practice what you are studying.

MAJORS AND MINORS
Some degrees allow you to major or specialise in a particular group of subjects. This focuses your study and ensures you are suitably qualified for jobs in your preferred area. Some degrees also allow you to complete a double major which is two specialty areas, or a co-major which is a second major from another area. 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.

newcastle.edu.au/midyear

PREFERENCES
You can nominate several preferences in your UAC application. List your preferences in order of the course you’d like to study most, rather than the Selection Rank.

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 at 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.

SELECTION RANK (SR)
This score was the lowest Selection Rank of any school leaver to receive an offer in Semester 1, 2019 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” or ATAR + Criteria, and median ATAR will be listed as “NA”. If ATAR is not considered, the minimum and median ATAR will be listed as “NA”.

SEMESTER
This is the academic teaching period, which is approximately 15-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 Development: see a Learning Adviser for tips, workshops and resources.
- Careers and Student Development: access 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
Over 100 undergraduate degrees and even more unique pathways to follow mean 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. Starting off on the right track is important. That’s why we’ve compiled all the key information you need to know for each degree – from entry requirements to what you will study, practical experience and potential career opportunities.

newcastle.edu.au/study

ACCOUNTING AND FINANCE
ARCHITECTURE, BUILDING AND CONSTRUCTION
BUSINESS AND ENTREPRENEURSHIP
COMMUNICATION AND CREATIVE INDUSTRIES
COMMUNITY SERVICES
COMPUTING, MATHS AND TECHNOLOGY
EDUCATION
ENGINEERING
HEALTH AND MEDICAL SERVICES
LAW
SCIENCE AND THE ENVIRONMENT
SOCIETY AND CULTURE
Julia Enables Communities

For Bachelor of Business (Leadership and Management) and Bachelor of Commerce (Accounting) student Julia, entrepreneurship is a means to empowerment, and financial literacy is the foundation for a prosperous future. As a recipient of the University of Newcastle’s iLEAD global leadership development scholarship, Julia had the once-in-a-lifetime opportunity to travel to the village of Bandung, Indonesia. There, she coached a group of local women in social entrepreneurship skills, including accounting and business performance. With the help of Julia and her colleagues, the women were able to make enough money to fund a library for the local children — a moment Julia describes as one of the proudest in her life. Today, Julia works as an accountant and is also a Finance Ambassador for the Greater Bank Finance Lab — a financial literacy partnership with the University of Newcastle and the Greater Bank.

Julia
Bachelor of Business/Bachelor of Commerce

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

Degree Options

Bachelor of Commerce

Also Consider

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

93.8%

of Bachelor of Commerce graduates employed within four months

AASCB Accredited

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

Top 200

in the world for Business and Economics
WHAT YOU WILL STUDY
You may choose to study one major 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:
• 300 hours of work placement
• short-term work placements
• international immersion tours
• the EMPower mentoring program for female students

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
• 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).

COMBINE THIS DEGREE WITH
• Bachelor of Business
• Bachelor of Innovation and Entrepreneurship
• Bachelor of Commerce/Bachelor of Laws (Honours)

ACCOUNTING AND FINANCE

COMBINED DEGREES

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

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

Bachelor of Construction Management (Building) (Honours) student Gidail believes great infrastructure enables people to thrive. He and his family moved from Soba, Sudan to Australia when he was young. On a recent return trip to their hometown, he was shocked to see how many people were living in tents or clay dwellings. After he graduates, Gidail plans to return to Soba to build modern, sustainable infrastructure that improves the quality of life for all. When he was awarded the Ma & Morley scholarship to travel to China, he eagerly took inspiration from Chinese construction. And in his program, he’s learning to use cutting-edge technology like virtual reality to create safer buildings. Gidail is combining passion with purpose to make his family’s hometown a safer home for its residents.

Gidail
Bachelor of Construction Management (Building) (Honours)
2019 Ma & Morley Scholar

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

TOP 100
in the world for Architecture and Built Environment¹

94.2%
graduate employment for Architecture and Built Environment students²

No. 1 IN NSW
for overall quality of education (students)³

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

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

¹ QS World University Rankings by Subject 2019
² Quality Indicators for Learning and Teaching 2018
³ 2019 Graduate Outcomes Survey
# Bachelor of Construction Management (Building) (Honours)

**WHAT YOU WILL STUDY**

Directly reflecting the needs of industry, you will build critical workplace skills in:
- building information modelling
- building surveying and estimating
- construction technology and technology

**PRACTICAL EXPERIENCE**

Bachelor of Construction Management students complete 36 weeks of professional practice. Through your work placement, you'll build vital professional networks and put your learning into practice. As part of this degree, you will also be mentored by senior staff at Buildsoft.

**CAREER OPPORTUNITIES**

The construction industry continues to grow. Over the past five years, employment in the NSW construction industry has increased by 11%, and 94% of our graduates find work within four months of finishing their degree, with an average starting salary of $70,000.

Some typical careers include:
- Building Surveyor/Certifier
- Construction Manager
- Estimator
- Facilities Manager

**PROFESSIONAL RECOGNITION**

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

**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
- construction technology and ecology

**PRACTICAL EXPERIENCE**

Engage in live projects with organisations such as NSW Urban Growth 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% 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
- Drafter
- 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**

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 and Washington Accord agreements, and as part of the Bologna Process for European Higher Education.
DOMINIC EXPLORES ENTREPRENEURSHIP

Bachelor of Business/Bachelor of Innovation and Entrepreneurship alumnus Dominic loves travel, sharing experiences, and the Hunter Coast — so he combined his passions into a business idea. Dominic is the Founder and Managing Director of CoastXP, a Newcastle-based adventure boat experience. CoastXP shares the rich biodiversity, urban history, Aboriginal heritage, and dramatic coastline of the Newcastle and Lake Macquarie region with tourists and curious locals alike. As a student, Dominic was able to pursue invaluable work-integrated learning experiences with the Newcastle City Council and Tourism Australia. These experiences inspired not only his future career, but also his personal vision — to enhance the destination image of Newcastle and the Hunter Coast as one of the most sustainable and livable regions in the world.

Dominic
Bachelor of Business/Bachelor of Innovation and Entrepreneurship, 2017

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, sports management — or whichever major you choose. Where you take your degree is completely up to you.

dominicxp.com

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

TOP 200
in the world for Business and Economics¹

84.9%
of Bachelor of Business graduates employed within four months²

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

¹ Times Higher Education Subject Rankings 2018
² 2018 Graduate Outcomes Survey

ALSO CONSIDER
Bachelor of Commerce

DEGREE OPTIONS
Bachelor of Business
Bachelor of Innovation and Entrepreneurship Combined

84.9%
of Bachelor of Business graduates employed within four months²

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¹ Times Higher Education Subject Rankings 2018
² 2018 Graduate Outcomes Survey
BACHELOR OF BUSINESS

2020 SELECTION RANK 482485
LOCATION Newcastle – Callaghan and City Precinct
DURATION 3 yrs FT / 8 yrs PT
UAC CODE 483100

RECOMMENDED STUDIES Mathematics

WHAT YOU WILL STUDY
This course 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 course is studied in combination with either a Bachelor of Business, Commerce, Laws (Honours), Arts, Science or Creative Industries.

PRACTICAL EXPERIENCE
Students at the University of Newcastle are excited 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 revolutionises 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, start-ups and developers to collaborate and challenge the conventional.

CAREER OPPORTUNITIES
Graduates are stimulated, achieving and lucrative careers in the private, government and not-for-profit sectors in Australia and internationally.

Some typical positions include:
- Business Development Manager
- Digital Marketing Analyst
- Employee Relations Manager
- Human Resources Officer

PROFESSIONAL RECOGNITION
Accredited by 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.

BACHELOR OF INNOVATION AND ENTREPRENEURSHIP COMBINED

2020 SELECTION RANK 482210
LOCATION Newcastle – Callaghan and City Precinct
DURATION 4 yrs FT / 5 yrs PT
UAC CODE 482300

RECOMMENDED STUDIES Mathematics

WHAT YOU WILL STUDY
The world is rapidly changing and employers are increasingly looking for the next generation of innovative thinkers with entrepreneurial skills. A 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.

PRACTICAL EXPERIENCE
We place importance on learning experiences beyond the classroom to give you both skills and knowledge. Take advantage of internships and project-based learning, including:
- 200 hours of work placement (if you choose to participate in workplace experience)
- local and international work experiences in China, Fiji and Kenya through short term mobility and international immersion tours

CAREER OPPORTUNITIES
This combined program builds on interdisciplinary understandings of uneven development and business practice. It also encompasses the creative mind-set with a deep understanding of how society, culture and business interact for positive outcomes.

Some typical positions include:
- Account Manager
- Business Development Officer
- Consultant for government, organisations and communities
- Event Manager
- Innovation Manager
- Startup Founder

PROFESSIONAL RECOGNITION
When you graduate 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, in conjunction with another degree, some individual majors within these degrees may be accredited. Please see individual degree listings for further detail.

LOCATIONS
- Callaghan
- City Precinct
- Central Coast – Ourimbah
- Newcastle – Callaghan and City Precinct
- Newcastle – City Precinct
- Newcastle – Callaghan and Central Coast – Ourimbah

BACHELOR OF ARTS/BACHELOR OF INNOVATION AND ENTREPRENEURSHIP

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

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

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

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

Bachelor of Chemical Engineering/Bachelor of Innovation (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 environment. 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 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 Computer Systems Engineering (Honours)/Bachelor of Business Complement your technical skills with business acumen, entrepreneurship and the ability to commercialise engineering innovations. Learn how to manage people and finances, propose new business opportunities and market your product.

Bachelor of Creative Industries/Bachelor of Innovation and Entrepreneurship Broaden your understanding of how innovation and entrepreneurship can be applied within real social and economic communities. This degree will complement your creative mind-set with a deep understanding of how society, culture and business interact for positive outcome.

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

What a Bachelor of Business degree gives you
- A firm understanding of the business environment
- A strong understanding of the world of civil engineering
- A deep understanding of how society, culture and business interact for positive outcome

What a Bachelor of Innovation and Entrepreneurship degree gives you
- Enhanced understanding of how society functions
- Critical thinking and problem-solving skills
- Strong communication and collaboration skills

Business and Entrepreneurship COMBINED DEGREES

Bachelor of Arts/Bachelor of Innovation and Entrepreneurship
Bachelor of Business/Bachelor of Commerce
Bachelor of Chemical Engineering/Bachelor of Innovation (Honours)/Bachelor of Business
Bachelor of Civil Engineering (Honours)/Bachelor of Business
Bachelor of Commerce/Bachelor of Innovation and Entrepreneurship
Bachelor of Computer Systems Engineering (Honours)/Bachelor of Business
Bachelor of Creative Industries/Bachelor of Innovation and Entrepreneurship
Bachelor of Development Studies/Bachelor of Business

These combinations allow 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
Bachelor of Information Technology/Bachelor of Languages
Bachelor of Information Technology/Bachelor of Creative Industries

Bachelor of Business/Bachelor of Information Technology
Bachelor of Business/Bachelor of Languages
Bachelor of Business/Bachelor of Creative Industries
Bachelor of Information Technology/Bachelor of Languages
Bachelor of Information Technology/Bachelor of Creative Industries

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
Bachelor of Food Science and Human Nutrition/Bachelor of Business
Bachelor of Management/Bachelor of Business

These combinations allow students to take an entrepreneurial idea and turn it into a successful new venture, or work within existing businesses in an innovative way.

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

Bachelor of Chemical Engineering/Bachelor of Innovation (Honours)/Bachelor of Business
Bachelor of Civil Engineering (Honours)/Bachelor of Business
Bachelor of Commerce/Bachelor of Innovation and Entrepreneurship
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Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
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Bachelor of Information Technology/Bachelor of Creative Industries

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
Bachelor of Food Science and Human Nutrition/Bachelor of Business
Bachelor of Management/Bachelor of Business

These combinations allow students to undertake and match business skills with their interest in food and nutritional sciences – a synergy that will maximise graduate employability.
**REID DRAWS ON EXPERIENCE**

When Bachelor of Visual Communication Design (Honours) student Reid wants to know if his animation is good enough, he looks for a sense of childlike wonder on his audiences’ faces. Reid has honed his skills working with hand-drawn and stop-motion setups at the Plasmatic Research Laboratory – the University of Newcastle’s cutting-edge animation lab. He’s rounding out his portfolio with classes and work experiences in graphic design, including creating a stylised music video for Australian punk legends, The Living End. Reid was thrilled when his animated short, Food for Fraught, was screened at film festivals across the world. Traditional animation may be a labour of love, but with every frame he draws, Reid sees a new chance to inspire and delight another person.

Reid
Bachelor of Visual Communication Design (Honours)

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**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, 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

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**DEGREE OPTIONS**

Bachelor of Communication
Bachelor of Creative Industries
Bachelor of Music
Bachelor of Natural History Illustration
Bachelor of Visual Communication Design

**ALSO CONSIDER**

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

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**No. 1 IN NSW**

for overall educational experience and learning resources – Communication¹

**87%**

Creative Arts students give us top marks for teaching – higher than national average²

**CUTTING-EDGE FACILITIES**

Students enjoy the most advanced communication technology available within our creative performance and production spaces.

¹ Quality Indicators of Learning and Teaching 2017
² Quality Indicators of Learning and Teaching 2018
COMMuNiCATiON ANd CrEATiVE iNduSTriES

• Bachelor of Laws (Honours)

by the Public Relations Institute of Australia (PRIA).

PROFESSIONAL RECOGNITION

• Festival/Events Coordinator
• Feature Writer
• Editor
• Copywriter
• Camera Operator
• Social Media Consultant
• Musician
• Author

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 media, communication and cultural industries. Areas of study include:

- Creativity and Cultural Production
- Experience Creation
- Public Relations
- Social Media

PRACTICAL EXPERIENCE

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

CAREER OPPORTUNITIES

Our graduates enjoy great employment prospects with 91% 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:

- Camera Operator
- Copywriter
- Editor
- Feature Writer
- Festival/Events Coordinator
- Film/Television Production Assistant
- Foreign Correspondent
- Journalist
- Media Analyst
- Political Advisor
- Public Relations Officer
- Publisher
- Radio Producer
- Social Media Consultant
- Web Designer

Professional Recognition

Students who complete this degree with the Public Relations major will graduate with a degree accredited by the Public Relations Institute of Australia (PRIA).

WHAT YOU WILL STUDY

Choose to major in any of the following areas:

- Communication and Media
- Creative and Performing Arts
- Design
- Information Technology

Study options include:

- A single major – choose one area of study and a range of electives
- A double major – choose two areas of study

PRACTICAL EXPERIENCE

You will have the opportunity to conceptualise, apply and showcase your skills through a major creative project. You will also enjoy access to our state-of-the-art facilities, training spaces, industry standard equipment and specialist vendors dedicated to the development and production of creative outputs. This includes our purpose-built NeW Space in the heart of Newcastle’s cultural precinct, designed and positioned to maximise interdisciplinary collaboration and industry networking.

CAREER OPPORTUNITIES

Our degree provides the skills and experience to work across a broad range of professions, whether you are directing, facilitating, promoting or delivering creative content. Examples of career opportunities may include:

- Actor
- Broadcast Journalist
- Communications Officer
- Curator
- Designer
- Exhibition Manager
- Festival Director
- Filmmaker
- Musician

WHAT YOU WILL STUDY

The Bachelor of Creative Industries is a 21st century degree for those planning to make real cultural, political and social impact through creative thinking and innovative approaches to their work. This degree challenges you to become a trailblazer, incorporating entrepreneurial skills, collaboration and project management across a range of creative fields. Develop new skills and expand your knowledge in an exciting interdisciplinary program that offers seven diverse areas of study.

WHAT YOU WILL STUDY

Our Bachelor of Music fosters collaborative activities between all our undergraduates, including performance, composition and sound production students. You can specialise in one or two of the following majors:

- Performance Major
- Songwriting and Production Major

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:

- Composer
- Professional Musician or Performer
- Songwriter

WHAT YOU WILL STUDY

The Bachelor of Natural History Illustration at the University of Newcastle is the only degree of its kind in Australia, and one of only a few in the world. This degree brings together three main subject areas – art, science and the environment and humanities. Natural history illustration is a flexible and diverse discipline that seeks to observe, record and visually interpret the world through creative practices. The degree focuses on developing observation and visual analytical skills, effective research techniques, concept development, communication skills and a technical skill-base.

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WHAT YOU WILL STUDY
Our core courses give you a strong foundation in the fundamentals of visual communication while the electives enable you to focus on more specialised areas that inspire you.

Areas of study could include:
- Graphic Design
- Screen Design
- Human Centred Design
- Advertising
- Illustration
- Animation
- Motion Graphics

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 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

In today’s increasingly digital and mobile environment, the demand for visual communication specialists across a wide range of industries is high. Visual communication design is exciting, diverse and constantly evolving. As an emerging visual communicator, you will learn to combine creative practice with experience in digital technologies and print media, to create successful design solutions. When you study a Bachelor of Visual Communication Design at the University of Newcastle, you will engage with international designers and educators whose range of expertise cover specialist areas such as graphic design, user experience design, design thinking, advertising, animation, illustration, and screen design.

COMMUNICATION AND CREATIVE INDUSTRIES

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

Bachelor of Creative Industries/Bachelor of Innovation and Entrepreneurship
Broaden your understanding of how innovation and entrepreneurship can be applied within real social and economic communities. This degree will complement your creative mind-set with a deep understanding of how society, culture and business interact for positive outcomes.

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 mind-set with an enhanced understanding of how society functions.
RACHAEL EMPOWERS CLIENTS

A proud Indigenous woman, Bachelor of Social Work (Honours) alumnus Rachael came to the University of Newcastle through the Wollotuka Institute. Each internship and work placement Rachael completed has had a profound impact on her career path, inspiring her to reduce the social stigma around mental illness, and to guide clients to achieve goals they set for themselves. Rachael says the University’s focus on educating students to be job-ready upon graduation helped her find her current job at headspace Maitland, a youth mental health and counselling centre. In the future, Rachael plans to bring her love of fitness and her passion to improve mental healthcare access together to help Indigenous communities be healthier.

Rachael
Bachelor of Social Work (Honours), 2018

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

TOP 150
in the world for Sociology¹

TOP 200
in the world for Geography¹

92.9%
of Bachelor of Social Work (Honours) graduates employed within four months²

DEGREE OPTIONS

Bachelor of Development Studies
Bachelor of Social Science
Bachelor of Social Work (Honours)

ALSO CONSIDER

Bachelor of Psychological Science

1 QS World University Rankings by Subject 2019
2 2018 Graduate Outcomes Survey
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 Baime 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 learning experience. A Bachelor of Development Studies will prepare you with a range of skills and knowledge needed to help you on your career path. Some typical positions include:
• Aboriginal Cultural Educator
• Cultural Development Officer
• Aid Worker
• Community Development Worker

COMBINE THIS DEGREE WITH
• Bachelor of Business
• Bachelor of Global Indigenous Studies

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

PRACTICAL EXPERIENCE
As part of this degree you 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 94% finding work upon completion of their degree. Whatever your preferred path, you will graduate with work-ready skills for a career such as:
• Aboriginal Cultural Educator
• Case Manager/Worker
• Corrections Officer
• Criminologist
• Cultural Development Officer
• Demographer

COMBINE THIS DEGREE WITH
• Bachelor of Development Studies
• Bachelor of Education
• Bachelor of Laws (Honours)

WHAT YOU WILL STUDY
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.

PRACTICAL EXPERIENCE
Education, human resources or community service. The placement is compulsory for students who major in Human Services.

CAREER OPPORTUNITIES
• Community Development Worker
• Aid Worker
• Aboriginal Cultural Worker
• Case Manager/Worker
• Corrections Officer
• Criminologist
• Cultural Development Officer
• Demographer

COMBINE THIS DEGREE WITH
• Bachelor of Laws
• Bachelor of Social Science

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. Core units of study in the program include:
• Social work
• Aboriginal studies
• Psychology
• Sociology

PRACTICAL EXPERIENCE
Your work readiness will be strengthened by industry experience throughout your program of study including:
• a minimum of 1000 hours of supervised field education placements
• industry-engaged simulation learning project-based and research with industry partners

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 practice in a number of fields including:
• Child protection
• Community development
• Disability
• Education
• Family and relationship counselling

A Bachelor of Social Work (Honours) 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.

COMBINE THIS DEGREE WITH
• Bachelor of Development Studies
• Bachelor of Social Science

COMBINED DEGREES
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 Social Science
Social science focuses on social relationships, structures and issues. By combining this degree with 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)
The Bachelor of Social Science and Bachelor of Laws (Honours) combination is ideal if you are interested in improving social justice, anti-discrimination and human rights.

Bachelor of Development Studies/Bachelor of Global Indigenous Studies
Development studies focus 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)
Law complements a range of professions where a passion for justice and attention to detail are key. By combining law with development studies, you will be able to advocate for change and make a real difference in issues like development, poverty and inequality.
HARRISON ENHANCES TEAMS

Bachelor of Information Technology alumnus Harrison is improving the working lives of millions of people across the world. Harrison is a Senior Product Designer for Atlassian — one of the Australia’s Best Places to Work¹ — leading the redesign of their flagship work planning and tracking product, Jira. The work he and his team are doing has the potential to save users’ time and energy, empower colleagues to collaborate better, and enable true innovation for teams. And Harrison is passionate about putting the spotlight on great teams and teamwork. His experiences at the University of Newcastle — co-creating a startup app, and connecting with mentors and clients for advice — showed him firsthand the impact teams can make when they work together towards a greater purpose.

Harrison
Bachelor of Information Technology, 2015

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.

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

No. 1 IN NSW
for overall satisfaction, student resources and student support²

No. 1 IN NSW
for satisfaction with computer science learning resources²

ERA 5
well above world standard for Applied Mathematics and Statistics³

¹ Great Place to Work Australia, 2018 Survey
² Quality Indicators for Learning and Teaching 2018
³ Excellence in Research 2018

DEGREE OPTIONS
Bachelor of Computer Science
Bachelor of Computer Systems Engineering (Honours)
Bachelor of Information Technology
Bachelor of Mathematics
Bachelor of Mathematics (Advanced)
Bachelor of Technology (Renewable Energy Systems)

ALSO CONSIDER
Bachelor of Software Engineering (Honours)
### BACHELOR OF COMPUTER SCIENCE

**WHAT YOU WILL STUDY**

Choose to specialise in one of the following majors:

- Data Science
- 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. Work-integrated learning is available in your final year where you complete 100 hours of work placement in an external organisation.

**CAREER OPPORTUNITIES**

Computer scientists work on challenging programming tasks, developing new software technologies and sophisticated new online systems. Computer science is fundamental to many everyday technologies like mobile phones, learning systems, online shopping, navigation systems, social media, computer games and programmable appliances. The Bachelor of Computer Science produces innovative and resourceful computer scientists who are experts at complex problem solving. They work across fields such as artificial intelligence, robotics, computer graphics, digital forensics, bioinformatics, web development, cryptography and data security.

**WHAT YOU WILL STUDY**

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

- advanced computer systems and embedded systems
- advanced physics
- computer and electrical 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**

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
- Cyber Security Advisor
- Business Intelligence Director
- Games Developer
- Program Manager
- Software Architect

**PROFESSIONAL RECOGNITION**

Accredited by the Australian Computer Society.

**COMBINE THIS DEGREE WITH**

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

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### BACHELOR OF COMPUTER SYSTEMS ENGINEERING (HONOURS)

**WHAT YOU WILL STUDY**

Computer systems engineers combine creativity with technology to develop solutions to some of the world’s greatest challenges. They are essential in a wide range of industries like computer design, defence applications, communication networks and internet development. With a Bachelor of Computer Systems Engineering (Honours), you might find yourself developing an agriculture system that optimises food production and minimises chemicals in farming. Or, you could design a computer system that creates greater efficiency in wind turbine energy production.

**WHAT YOU WILL STUDY**

Information technology (IT) is all about developing, building and maintaining software systems to meet the challenges faced by society and seizing the opportunities that new technology creates. With the Bachelor of Information Technology, you could specialise in business technology and manage large and complex software systems for big corporations and government. Or focus on cloud architecture, software, mobile and app development for a wide range of industries – even your own startup. If you’re passionate about media and entertainment, you could create exciting games, animations and digital content.

**WHAT YOU WILL STUDY**

You will develop skills in:

- web technologies
- databases
- management

Plus, you’ll choose from one of the following majors, designed to meet industry’s evolving IT needs:

- Interactive Media
- Business Technology

**PRACTICAL EXPERIENCE**

Students have the opportunity to undertake a work-integrated learning industry placement and complete a major IT project with an industry partner.

**CAREER OPPORTUNITIES**

IT graduates work across almost every industry and not-for-profit organisation. You could go on to work for organisations like Google, Amazon, Facebook or Apple. Some typical positions include:

- Web Developer
- Games Designer/Animator
- Infrastructure Business Analyst
- Mobile App Designer

**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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### BACHELOR OF INFORMATION TECHNOLOGY

**WHAT YOU WILL STUDY**

- computer-human interaction
- systems analysis and design
- business analysis

**WHAT YOU WILL STUDY**

- computer and electrical engineering
- advanced computer systems and embedded systems
- advanced physics
- computer and electrical engineering

**PRACTICAL EXPERIENCE**

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- Business Intelligence Director
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- Program Manager
- Software Architect

**PROFESSIONAL RECOGNITION**

Accredited by the Australian Computer Society.

**COMBINE THIS DEGREE WITH**

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

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### BACHELOR OF MATHEMATICS

**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 Mathematics
- Applied Mathematics
- Statistics

**PRACTICAL EXPERIENCE**

Mathematics students learn in our Access Grid Room – a fully equipped facility with computers, cameras, projectors, microphones and SMARTboards to enable users to connect with other groups in real-time.

**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 mining and energy sector, and medical and health research. Some typical roles are:

- Data Mining Analyst
- Investment Banker/Stockbroker
- Economic/Social Statistician

**PROFESSIONAL RECOGNITION**

Students may join the Australian Mathematical Society (AustMS) as student members before they graduate. Graduates with a Statistics major are eligible forGraduate 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 Science
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Electrical Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science
**BACHELOR OF MATHEMATICS (ADVANCED)**

<table>
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<tr>
<th>2019 SELECTION RANK</th>
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<td>3 yrs FT / 4 yrs PT</td>
<td>Associate Degree of Engineering (Renewable Energy Technologies) from TAFE NSW (or equivalent). See website for more information.</td>
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**WHAT YOU WILL STUDY**

Specialise in either the Electrical or Mechanical major:

- **Electrical major:**
  - Automatic Control
  - Electric Machines and Power Systems
  - Principles and Design of Off and Power Systems
  - Power Electronics and Renewable Energy Systems
  - Quantum Mechanics and Semiconductor Physics

- **Mechanical major:**
  - Mechatronic Systems
  - Thermofluids
  - Mechanical Engineering Design
  - Materials Science and Engineering
  - Renewable Energy Conversion

**CAREER OPPORTUNITIES**

Engineers in the field of renewable energy work on a variety of technologies such as solar, wind and geothermal energy and their integration into systems. You could work for an energy company, a consultancy, an energy renewable energy equipment manufacturer, a research and development organisation or a government department. Some typical positions include:

- Energy Consultant or Advisor
- Renewable Energy Project Officer
- Solar Energy Systems Designer
- Wind Energy Technician

**PROFESSIONAL RECOGNITION**

Graduates are eligible for assessment as an Engineering Technologist (subject to course endorsement by Engineers Australia).

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**BACHELOR OF TECHNOLOGY (RENEWABLE ENERGY SYSTEMS)**

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  - Automatic Control
  - Electric Machines and Power Systems
  - Principles and Design of Off and Power Systems
  - Power Electronics and Renewable Energy Systems
  - Quantum Mechanics and Semiconductor Physics

- **Mechanical major:**
  - Mechatronic Systems
  - Thermofluids
  - Mechanical Engineering Design
  - Materials Science and Engineering
  - Renewable Energy Conversion

**CAREER OPPORTUNITIES**

Engineers in the field of renewable energy work on a variety of technologies such as solar, wind and geothermal energy and their integration into systems. You could work for an energy company, a consultancy, an energy renewable energy equipment manufacturer, a research and development organisation or a government department. Some typical positions include:

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**PROFESSIONAL RECOGNITION**

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**COMPUTING, MATHS AND TECHNOLOGY**

**BACHELOR OF COMPUTER SYSTEMS ENGINEERING (Honours)/Bachelor of Computer Science**

Combine Computer Systems with 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 COMPUTER SYSTEMS ENGINEERING (Honours)/Bachelor of Mathematics**

Sharpen your technical skills with advanced maths studies. Mathematics is fundamental to breakthrough engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

**BACHELOR OF MECHATRONICS ENGINEERING (Honours)/Bachelor of Mathematics**

Learn a variety of engineering concepts and practices, and enhance your technical skills with advanced maths courses, opening up broader career opportunities.

**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 analytics, and in managing large and complex software systems critical for big corporations and government.

**BACHELOR OF MATHEMATICS/Bachelor of Computer Science**

Develop your problem-solving skills with advanced maths and computer science studies. Computer science opens up opportunities in complementary fields such as artificial intelligence, robotics, digital forensics and data security.

**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 Education (Primary) (Honours) student Maddison strives to realise the potential in every student she teaches. That's the approach she took during her practical placement in rural Dubbo, New South Wales. It was there she realised her own potential as a teacher. Working with children across a wide spectrum of backgrounds — including Indigenous students, students with special needs, and mainstream students — Maddison found purpose in identifying and catering to their individual styles of learning. Maddison relishes every opportunity to work with the experienced academic staff in the School of Education, learning from their real-life examples as well as cutting-edge pedagogic theory. For Maddison, the chance to make a lifelong impact on the next generation of students is the ultimate reward.

Maddison
Bachelor of Education (Primary) (Honours)
WHAT YOU WILL STUDY

Diversify your skills and career pathways by qualifying to teach and work across both early childhood and primary school.

Key study areas include:
- psychology of learning and teaching
- children’s learning and growth across the span of birth to 18 years
- families and society
- programming and planning for children aged 0–5 years

PRACTICAL EXPERIENCE

You will complete three professional experience placements totalling at least 90 days. You can also take advantage of:
- Teach Outreach – a volunteer placement program
- TeachLive – a volunteer online platform for our students and staff that provides opportunities to network and collaborate
- NoTeach – an online platform for students and staff to provide opportunities to network and collaborate

CAREER OPPORTUNITIES

Our graduates enjoy great employment prospects with 98% securing jobs upon completion of their degree. Careers may include:
- Community Educator
- Early Childhood Teacher
- Educational Researcher
- Early Childhood Centre Director
- Primary School Teacher

PROFESSIONAL RECOGNITION

Accreditation pending by the NSW Education Standards Authority (NESA) and the Australian Children’s Education and Care Quality Authority (ACECQA).
In his work, Bachelor of Electrical and Electronic Engineering (Honours) student Sam combines empathy and empowerment with engineering. As an intern at NASA, Sam built software to expand human understanding of aerospace technology. And as an exchange student at The University of Pittsburgh, he studied devices that decode a patient’s brain activity to control prosthetics — groundbreaking technology that could potentially give people who have lost function of their limbs life-changing independence and access. In his final year project, he’ll use the University’s world-class facilities and technology to further his understanding of what he calls “the most complicated electrical circuit on the planet” — the human brain.

Sam
Bachelor of Electrical and Electronic Engineering (Honours)
WHAT YOU WILL STUDY

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

- aircraft operations and performance
- aerospace design and materials
- principles of flight
- avionics
- 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 89% securing jobs within four months of completing their degree. Some typical positions include:

- Aerospace System 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

Accreditation for this degree will be sought from Engineers Australia.

WHAT YOU WILL STUDY

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

- heat transfer and design of energy systems
- thermodynamics
- mass transfer and separation processes
- fluid mechanics
- kinetics and reaction engineering
- green engineering and sustainability processes

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 90% securing jobs within four months of completing their degree. Some typical positions include:

- Civil Engineer
- Structural Engineer
- Geotechnical Engineer
- Traffic Engineer
- Water Treatment Designer

- a Master of Professional Engineering

PROFESSIONAL RECOGNITION

Our degree is accredited through Engineers Australia and the Institution of Chemical Engineers (IChemE), meaning graduates can work anywhere in the world.

WHAT YOU WILL STUDY

Become job-ready through professional practice courses and diversify your skills with four elective pathways. 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 90% securing jobs within four months of completing their degree. Some typical positions include:

- Embedded Systems Engineer
- Robotics Engineer
- Telecommunications Equipment Designer

- a Master of Professional Engineering

PROFESSIONAL RECOGNITION

Professional recognition through Engineers Australia qualifies you as a professional engineer who can work almost anywhere in the world.

WHAT YOU WILL STUDY

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

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

- computer science
- communications
- power systems
- fluid dynamics
- electrical engineering design
- procedural programming
- signals and systems

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 90% securing jobs within four months of completing their degree. Some typical positions include:

- Energy Systems Engineer
- Renewable Energy Systems Engineer
- Robotics Engineer
- Telecommunications Equipment Designer

- a Master of Professional Engineering

PROFESSIONAL RECOGNITION

Professional recognition through Engineers Australia means graduates will be qualified as professional engineers who can work almost anywhere in the world.

WHAT YOU WILL STUDY

Civil engineering involves a systems approach to the design, efficient operation and diversification of infrastructure. The possibilities are diverse and exciting.

WHAT YOU WILL STUDY

Some typical positions include:

- Satellite Engineer
- Aerospace System Engineer

- mass transfer and separation processes
- fluid mechanics
- kinetics and reaction engineering
- green engineering and sustainability processes

WHAT YOU WILL STUDY

Complete one extra year study and broaden your options with the Bachelor of Chemical Engineering (Honours). You could work as part of a team developing high-efficiency insulation products that improve heating and cooling. You could work on biological production in remote communities, assisting with both waste disposal and energy production. Or, you might work in the food industry, refining products for people with special dietary needs. The possibilities are diverse and exciting.

WHAT YOU WILL STUDY

Build critical, technical engineering skills in:

- aerodynamics
- embedded systems engineering
- green engineering and sustainability processes

WHAT YOU WILL STUDY

Some typical positions include:

- Telecommunications
- Robotics
- Telecommunications Equipment Designer

- a Bachelor of Business (minor)
- a Bachelor of Mathematics (minor)
- a Bachelor of Science (Chemistry of Advanced Materials major only)

WHAT YOU WILL STUDY

Want to use mathematics, science and creativity to overcome challenges and find solutions? Chemical engineers help develop everyday products like toothpaste, puff pastry, chocolate, lipstick, paracetamol and petrol. With a Bachelor of Chemical Engineering (Honours), you could work as part of a team developing high-efficiency insulation products that improve heating and cooling. You could work on biological production in remote communities, assisting with both waste disposal and energy production. Or, you might work in the food industry, refining products for people with special dietary needs. The possibilities are diverse and exciting.

WHAT YOU WILL STUDY

- digital and computer systems
- communications
- power systems
- fluid dynamics
- electrical engineering design
- procedural programming
- signals and systems

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 90% securing jobs within four months of completing their degree. Some typical positions include:

- Embedded Systems Engineer
- Robotics Engineer
- Telecommunications Equipment Designer

- a Master of Professional Engineering

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Build critical, technical engineering skills in:

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### Bachelor of Engineering (Mining Transfer Program)

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - mathematics, physics, design and mechanics
  - advanced materials and manufacturing
  - electronics design
  - mechatronics design

**PRACTICAL EXPERIENCE**

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

**CAREER OPPORTUNITIES**

Almost all industries need mechanical engineers and 92% of graduates find work within four months of completing their degree. They work in medical, transport, aerospace, electronics, freighting, renewable energy, robotics, automation and advanced manufacturing industries.

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - mathematics, physics, design and mechanics
  - advanced materials and manufacturing
  - electronics design
  - mechatronics design

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**CAREER OPPORTUNITIES**

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### Bachelor of Mining Engineering (Honours)

**WHAT YOU WILL STUDY**

As an environmental engineer you may help rehabilitate land damaged by mining or work on the clean-up of an oil spill that threatens ecosystems. You could even help prevent inundations on some of the world’s fast-growing cities. Environmental engineers apply their knowledge of chemistry, geomechanics, hydrology and land surface processes to find solutions for 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.

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - mathematics, physics, design and mechanics
  - advanced materials and manufacturing
  - electronics design
  - mechatronics design

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  - electronics design
  - mechatronics design

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

**CAREER OPPORTUNITIES**

Almost all industries need mechanical engineers and 92% of graduates find work within four months of completing their degree. They work in medical, transport, aerospace, electronics, freighting, renewable energy, robotics, automation and advanced manufacturing industries.
### Bachelor of Medical Engineering (Honours)

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - pharmacology
  - engineering design
  - neurobiology
- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - solar and wind
  - geothermal, hydro, ocean and hybrid systems
  - carbon accounting and energy auditing

**PRACTICAL EXPERIENCE**

All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree.

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree.

**PROFESSIONAL RECOGNITION**

This program is seeking provisional accreditation through Engineers Australia.

### Bachelor of Renewable Energy Engineering (Honours)

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - power electronics and renewable energy systems
  - bioenergy
  - energy storage systems

**PRACTICAL EXPERIENCE**

All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree.

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree.

**PROFESSIONAL RECOGNITION**

This program is seeking provisional accreditation through Engineers Australia.

### Bachelor of Software Engineering (Honours)

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - database management systems
  - enterprise software
  - 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.

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree.

**PROFESSIONAL RECOGNITION**

This program is seeking provisional accreditation through Engineers Australia.

### Bachelor of Surveying (Honours)

**WHAT YOU WILL STUDY**

- Become job-ready through professional practice courses and diversify your skills with four elective pathways.
- Build critical, technical engineering skills in:
  - geodesy
  - photogrammetry and surveying systems
  - spatial data systems

**PRACTICAL EXPERIENCE**

All University of Newcastle surveying students must complete 12 weeks of professional practice during their degree.

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree.

**PROFESSIONAL RECOGNITION**

This program is seeking provisional accreditation through Engineers Australia.

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**WHAT YOU WILL STUDY**

- Build critical medical and engineering skills through courses in:
  - human pathophysiology
  - analog and digital communications
  - medical imaging
  - computer systems
  - materials science
  - medical electronics
  - bioengineering
  - medical device design
  - international health
  - medical communications

**PRACTICAL EXPERIENCE**

All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree.

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree.

**PROFESSIONAL RECOGNITION**

This program is seeking provisional accreditation through Engineers Australia.
**ENGINEERING COMBINED DEGREES**

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

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

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 Civil Engineering (Honours)/Bachelor of Environmental Engineering (Honours)
By expanding your engineering expertise, you will enhance your knowledge of chemistry, geomechanics, hydrology and land surfaces. This will allow you to help resolve complex environmental problems, such as soil erosion and water pollution.

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 Civil Engineering (Honours)/Bachelor of Surveying (Honours)
Increase your career opportunities by broadening your engineering expertise. Specialise in the measurement, management, analysis and display of spatial information describing the Earth and its physical features.

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 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 Electrical and Electronic Engineering (Honours)/Bachelor of Science
Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Environmental Engineering (Honours)/Bachelor of Science
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 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 Mechanical Engineering (Honours)/Bachelor of Mathematics
A combined mathematics and mechanical engineering degree 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 Mechanical Engineering (Honours)/Bachelor of Mechatronics Engineering (Honours)
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.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Science
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 Mechatronics 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 Mechatronics Engineering (Honours)/Bachelor of Electrical and Electronic Engineering (Honours)
If you would like to work in emerging fields such as robotics, renewable energy and nano-technology, this combined degree will equip you with the capability to develop new, exciting technologies to support the changing needs of society.

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Mathematics
Integrate your passion for chemistry or biology with advanced mathematics and use innovative technologies with a deeper understanding of physics. Comprehensive physics courses can help you solve more complex engineering problems, opening up broader employment opportunities.

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Science
Combine your knowledge of electrical, computer and mechanical technologies with a deeper understanding of physics. Comprehensive physics courses can help you solve more complex engineering problems, opening up broader employment opportunities.

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.
What Bachelor of Occupational Therapy alumnus Brigette loves most about her field is the lifelong impact it can have on people and communities. At the University of Newcastle, she was able to make a difference across multiple fields of care, including mental health, community aged care, and paediatrics. In the final year of the program, Brigette was selected to travel abroad and complete 10 weeks of work-integrated learning at a school in Fiji. In this new and unfamiliar culture, Brigette faced language barriers and a scarcity of resources. Despite those challenges, Brigette’s impact on the community was not only immediate — it was enduring. Because of her work there, the school is now hiring a full-time Occupational Therapist.

Brigette
Bachelor of Occupational Therapy (Honours), 2018

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

38TH
in the world for Sport Science¹

THE UNIVERSITY OF NEWCASTLE IS PROUD TO HAVE GRADUATED MORE THAN 100 OF AUSTRALIA’S INDIGENOUS MEDICAL DOCTORS²

ERA 5
well above world standard for Genetics, Human Movement and Sports Science, Medical Physiology, Neurosciences, Nursing, Nutrition and Dietetics, Paediatrics and Reproductive Medicine, Pharmacology and Pharmaceutical Sciences, Physiology³

DEGREE OPTIONS
Bachelor of Biomedical Science
Bachelor of Exercise and Sport Science
Bachelor of Food Science and Human Nutrition
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 Medical Engineering (Honours)
WHAT YOU WILL STUDY
Opportunities to study a wide range of courses are available and you will be exposed to varying modes of study including face-to-face and online learning.
Choose from one of the following majors:
• Medical/Health Professional
• Industry and Education
• Advanced Medical Research

Core courses provide advanced theoretical knowledge in:
• physiology
• anatomy
• biochemistry

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 will develop the knowledge and skills to impact the global advancement of medical research practice and policy. With three unique pathways, your degree can be tailored to your career aspirations. As a medical researcher, you can build a fascinating career in scientific research, helping to develop life-saving advancements against disease. Contribute to science and innovation in education, industry or commerce using groundbreaking medical innovations to solve real-world problems. Gain a solid foundation for your career as a Health practitioner with enhanced research capability.

BACHELOR OF
HEALTH AND MEDICAL SERVICES

2019 SELECTION RANK
77.0 | Median 66.45
DURATION
3 yrs FT / 4 yrs PT

WHAT YOU WILL STUDY
The western world is facing a new wave of health problems and chronic diseases due to inactivity and poor lifestyle habits. Contrary to this, at the same time, elite sports are more popular than ever. Exercise and sport science is an inspiring and rapidly evolving field. 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 approach to the Bachelor of Exercise and Sport Science encompassing all aspects of physical health.

CAREER OPPORTUNITIES
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 scientist, you could work to develop new food products before they hit the consumer shelf, ensuring the foods we eat are more nutritionally balanced, safe to consume and desirable to purchase. With a Bachelor of Food Science and Human Nutrition you will 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.

BACHELOR OF
FOOD SCIENCE AND HUMAN NUTRITION

2019 SELECTION RANK
80.0 | Median 66.45
DURATION
3 yrs FT / 3 yrs PT

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. Your areas of study will include:
• biomedical science
• chemistry
• food product development
• nutrition in health and disease

PRACTICAL EXPERIENCE
Offered from our Central Coast campus, you will train in a test kitchen sponsored by Sara Lee Australia. This is an essential part of the product development process where you can initiate and test product concepts, reflecting how it’s done in the industry. 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 experienced, specialist knowledge and skills you learn will prepare you for a successful career in the food science, health and nutrition industries. Some typical roles after you graduate include:
• Catering Manager
• Flavourist
• Food Scientist, Technologist or Chemist
• Health Promotion Officer
• Nutritionalist or Dietician
• Quality Assurance Technician

PROFESSIONAL RECOGNITION
Graduates will be accredited with Exercise and Sport Science Australia (ESSA). Graduates may also complete an Exercise Science Sequence to qualify as an Exercise Scientist for ESSA.
Medical Radiation Science (Honours) (Nuclear Medicine)

**WHAT YOU WILL STUDY**
You will study nuclear medicine, with specialisation in radiopharmacy, medical imaging, and patient care.

**PRACTICAL EXPERIENCE**
You will complete 42 weeks of clinical placement, supervised and mentored by qualified nuclear medicine scientists in both public and private centres, locally or overseas. You will also have access to world-class facilities and technology, such as the $13.5 million on-campus radiation laboratory.

**CAREER OPPORTUNITIES**
Our graduates enjoy great job prospects with 98% finding work within four months of completing their degree. Many of our graduates have advanced rapidly in their careers and are now in management roles in Australia and overseas. Some typical positions include:
- **Radiopharmacy Technologist**
- **Medical Technicians**
- **Research Scientists**
- **Technical Writers**
- **Nuclear Medicine Technicians**

**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).

**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.

**PRACTICAL EXPERIENCE**
You will complete 42 weeks of mentored professional placement in metropolitan, regional and rural settings. You will also gain access to world-class facilities such as our TD radiation therapy simulation laboratory, the first of its kind in Australia.

**CAREER OPPORTUNITIES**
Our graduates enjoy great job prospects with 98% finding work within four months of completing their degree. Some typical positions include:
- **Radiopharmacist**
- **Research Scientist**
- **Medical Technicians**
- **Sonographers**

**PROFESSIONAL RECOGNITION**
Our radiation therapy graduates are eligible to apply for registration with the Medical Board of Australia and 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.
**BACHELOR OF NURSING**

**WHAT YOU WILL STUDY**

The Bachelor of Nursing mixes face-to-face and online learning with plenty of hands-on nursing experience in simulated laboratories and professional clinical placements. Be inspired by our enthusiastic and experienced educators and internationally ranked researchers who bring courses to life and share their love of learning. You will study nursing theory and practice in:
- primary and secondary health care
- mental health
- human bioscience

**PRACTICAL EXPERIENCE**

You will complete 1,200 hours of compulsory clinical experience. Clinical placements occur in blocks and involve morning and evening shifts. Night duty is introduced in your final year. Clinical placement is conducted in a variety of settings including:
- medical-surgical facilities
- acute care
- rural and remote health settings
- major teaching hospitals
- mental health settings
- aged care facilities
- community health and human bioscience laboratories on campus

**CAREER OPPORTUNITIES**

Our graduates enjoy great job prospects with 97% securing employment within four months of completing their studies. Registered Nurses can establish careers in diverse areas such as:
- mental health
- community health
- human bioscience

**STUDIES**

- English (Standard) or English (Advanced)
- Mathematics (General) plus Biology

**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

**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:
- Dietitian
- Diabetes Educator
- Health Promotion Officer

**PROFESSIONAL RECOGNITION**

Our graduates enjoy great job prospects with 95% securing employment within four months of completing their studies. Registered Nurses can establish careers in diverse areas such as:
- mental health
- community health
- human bioscience

**STUDIES**

- Nutrition and Dietetics
- Health Sciences

**WHAT YOU WILL STUDY**

Demand for Bachelor of Nutrition and Dietetics graduates is growing as diet and nutrition-related diseases such as heart disease, diabetes and obesity become increasingly common worldwide. As a student, you will have access to world-class researchers and educators, and will learn how to use the latest evidence to manage patient health and discover the powerful science of human nutrition. A career in nutrition and dietetics is immensely rewarding, as you help people understand how nutrition and health are intertwined. You will help prevent disease, improving overall health in your community and worldwide.
HEALTH AND MEDICAL SERVICES

PHARMACY (HONOURS)

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.

Your areas of study will include:
• core biomedical sciences, including anatomy, physiology and pathology
• 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 pharmacy practice, pharmaceutical care and patient consultation.

Careers
Pharmacists play an integral role in the provision of healthcare services. As a pharmacist, you will be on the 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.

This degree is accredited by the Australian Pharmacy Council.
Once you graduate, you will need to complete a one-year internship before being registered with the Pharmacy Board of Australia under the Australian Pharmacy Registration Board. Graduates are eligible to apply for registration with the Pharmacy Board of Australia under the Australian Pharmacy Registration Board (APRA).

The Bachelor of Pharmacy is the only three-year, accelerated, undergraduate pharmacy degree in Australia. As a pharmacist, you will help patients get back on their feet by diagnosing, treating and preventing lower leg and foot problems and promoting good health. You could find yourself correcting sports injuries, addressing developmental issues in children or helping restore a person's independence and mobility.

University of Newcastle pharmacy graduates are highly employable thanks to our world-class pharmacy clinic.

PRACTICAL EXPERIENCE
You will complete a number of clinical placements, supervised by qualified pharmacists. These will be conducted in both public and private centres across community health centres, hospital outpatient clinics, hospital wards, private practices and rehabilitation units.

Careers
Our graduates have great job prospects with 99% securing work soon after graduating.

CAREER OPPORTUNITIES
Some typical positions include:
• Community Pharmacist
• Research Pharmacist
• Hospital Pharmacist
• Industrial Pharmacist

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). This degree is accredited by the Australian Pharmacy Council.

BACHELOR OF PHYSIOTHERAPY (HONOURS)

WHAT YOU WILL STUDY
You will gain professional physiotherapy skills and learn how it relates to relevant biomedical and behavioural sciences.

Your areas of study will include:
• anatomy
• physiology and biomechanics
• research methodology

PRACTICAL EXPERIENCE
You will complete a number of clinical placements, supervised by qualified physiotherapists. These will be conducted in both public and private centres across community health centres, hospital outpatient clinics, hospital wards, private practices and rehabilitation units.

Careers
Our graduates have great job prospects with 99% 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.

The Bachelor of Podiatry is the only three-year, accelerated, undergraduate podiatry degree in Australia. As a podiatrist, you will help patients get back on their feet by diagnosing, treating and preventing lower leg and foot problems and promoting good health. You could find yourself correcting sports injuries, addressing developmental issues in children or helping restore a person's independence and mobility.

Psychological science is a fascinating area which examines the cause of human behaviour. This understanding is then used to solve practical problems that will positively impact the lives of others. The need for psychology expertise is growing in popularity, with demand for psychologists predicted to increase by 15% over the next 10 years. The Bachelor of Psychological Science can be applied in a broad range of industry sectors, enabling you to choose the career path that's right for you.

WHAT YOU WILL STUDY
You will discover how to identify and analyse complex health problems within podiatry practice and develop multidisciplinary solutions. Your areas of study will include:
• anatomy
• physiology and biomechanics

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 practice on real patients at Wyong Hospital.

Careers
Our graduates enjoy great job prospects with 99% securing work within four months of finishing their degree. Some typical positions include:
• General or specialised podiatry practice
• Market Researcher
• Mediator

Professional Recognition
Accredited by Psychology Board of Australia and Associate Membership of the Australian Psychological Society (APS). This degree is also accredited by the Australian Psychology Accreditation Council (APAC).

BACHELOR OF PODIATRY

WHAT YOU WILL STUDY
You will gain professional physiotherapy skills and learn how it relates to relevant biomedical and behavioural sciences.

Your areas of study will include:
• anatomy
• physiology and biomechanics

PRACTICAL EXPERIENCE
You will complete a number of clinical placements, supervised by qualified physiotherapists. These will be conducted in both public and private centres across community health centres, hospital outpatient clinics, hospital wards, private practices and rehabilitation units.

Careers
Our graduates have great job prospects with 99% securing work within four months of finishing their degree. Some typical positions include:
• Community Pharmacist
• Research Pharmacist
• Hospital Pharmacist
• Industrial Pharmacist

PROFESSIONAL RECOGNITION
This degree has full accreditation awarded by the Australian Podiatry Council. Graduates are eligible to apply for registration with the Podiatry Registration Board of Australia under the Australian Podiatry Registration Board (APRA). Accredited by the Australian and New Zealand Podiatry Accreditation Council.

Psychological science is a fascinating area which examines the cause of human behaviour. This understanding is then used to solve practical problems that will positively impact the lives of others. The need for psychology expertise is growing in popularity, with demand for psychologists predicted to increase by 15% over the next 10 years. The Bachelor of Psychological Science can be applied in a broad range of industry sectors, enabling you to choose the career path that's right for you.

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Our graduates enjoy great job prospects with 99% securing work within four months of finishing their degree. Some typical positions include:
• General or specialised podiatry practice
• Market Researcher
• Mediator

Professional Recognition
Accredited by Psychology Board of Australia and Associate Membership of the Australian Psychological Society (APS). This degree is also accredited by the Australian Psychology Accreditation Council (APAC).

BACHELOR OF PSYCHOLOGICAL SCIENCE

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.

Your areas of study will include:
• core biomedical sciences, including anatomy, physiology and pathology

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.

Careers
Pharmacists play an integral role in the provision of healthcare services. As a pharmacist, you will be on the 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.

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Once you graduate, you will need to complete a one-year internship before being registered with the Pharmacy Board of Australia under the Australian Pharmacy Registration Board. Graduates are eligible to apply for registration with the Pharmacy Board of Australia under the Australian Pharmacy Registration Board (AHPRA).

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University of Newcastle pharmacy graduates are highly employable thanks to our world-class pharmacy clinic.

PRACTICAL EXPERIENCE
You will complete a number of clinical placements, supervised by qualified pharmacists. These will be conducted in both public and private centres across community health centres, hospital outpatient clinics, hospital wards, private practices and rehabilitation units.

Careers
Our graduates have great job prospects with 99% securing work soon after graduating.

CAREER OPPORTUNITIES
Some typical positions include:
• Case Worker
• Mediator

Professional Recognition
Accredited by Psychology Board of Australia and Associate Membership of the Australian Psychological Society (APS). This degree is also accredited by the Australian Psychology Accreditation Council (APAC).
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

The Bachelor of Psychological Science (Advanced) offers additional work- and research- integrated learning, as you will apply your skills in a major transdisciplinary capstone project throughout your third year.

CAREER OPPORTUNITIES

Our graduates enjoy great job prospects with 87% securing work soon after graduating. Some typical positions include:

- Juvenile Justice Officer
- Careers Counsellor

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 diseases, 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.

WHAT YOU WILL STUDY

Choose from eight interdisciplinary majors including:

- Health Promotion
- Global Health
- Social Marketing
- Social Justice and Health Inequality
- Environmental Health
- Health Sociology and Anthropology
- Epidemiology and Data Sciences
- Integrated Systems and Health Administration

PRACTICAL EXPERIENCE

You’ll complete a semester-long work experience program in your final year of study. This means you’ll gain valuable practical experience, be able to build professional networks and graduate industry-ready. As part of the program’s Professional Pathways courses, students will undertake a series of a ‘passion projects’ where you have the opportunity to undertake work experience, volunteer work, and explore the areas you’re most interested in. You’ll 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. Typical roles include:

- Community Development Worker
- Community Educator
- Community Health Officer
- Environmental Health Officer
- Epidemiologist
- Health Administrator
- Health Educator
- Health Promotion Officer
- Project Officer
- Public Health Officer
- Public Health Program Manager
- Social Marketing Manager

Speech pathologists are allied health professionals responsible for the assessment and treatment of children and adults with communication and swallowing disorders. This is used 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 will have the opportunity to study with award-winning researchers and gain an understanding of the profession through substantial clinical experience.

WHAT YOU WILL STUDY

This degree is an interdisciplinary program. Throughout the degree, you will study linguistics, human bioscience, statistics, psychology as well as speech pathology specific courses. You will develop competencies and skills to confidently assess, diagnose and treat a range of conditions including 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 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 on-campus speech pathology clinic.

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.
ALISSA DRIVES INTERNATIONAL IMPACT

Bachelor of Commerce/Bachelor of Laws (Honours) and Diploma of Legal Practice alumnus Alissa is committed to the idea of values. Driving value for the international law firm she recently joined, but also living her own personal values. Alissa made the most of the possibilities the University of Newcastle offers to pursue purposeful work. From her horizon-expanding studies in China on the Ma & Morley Immersion Scholarship, to her legal internship at a community development organisation in Cambodia, to her volunteer work at Aboriginal Legal Service, Alissa created a path that will enable her to practice law in a challenging corporate environment while making a positive, sustainable impact on the world. She’s looking forward to commercial law, where ever-changing economic and political conditions mean ever-increasing opportunities to make a difference.

Alissa
Bachelor of Commerce/Bachelor of Laws (Honours) Diploma of Legal Practice, 2018
2019 Ma & Morley Scholar

LAW

If you’re passionate about justice and want to understand more about creating real change through legislation and policy - law is the career for you. You’ll learn about the principles underlying the Australian legal system while also advocating for legal rights on local, national and global issues. As Australia’s leading clinical law school, the Newcastle Law School’s Legal Centre provides you with the practical legal training and supervised clinical legal experience needed to practice as an Australian lawyer without any further study.

newcastle.edu.au/study/law

TOP 300
in the world for Law¹

94.7%
of Bachelor of Laws (Honours)/Diploma of Legal Practice graduates employed within four months²

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 QS World University Rankings by Subject 2017
2 2018 Graduate Outcomes Survey

DEGREE OPTIONS
Bachelor of Laws (Honours) Combined
ALSO CONSIDER
Bachelor of Social Science
Bachelor of Laws (Honours) Combined

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 will 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.

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 will 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 Centres renowned annual summer clinic held at Newcastle Beach
- take part in public interest clinics in social justice and environmental law
- be a legal aid lawyer
- be a policy advisor
- be a solicitor

CAREER OPPORTUNITIES
Our graduates go on to secure jobs in a diverse range of areas, within four months of graduating. Studying law alone does not prepare 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 Commerce
- Bachelor of Communication
- Bachelor of Development Studies
- Bachelor of Global Indigenous Studies
- Bachelor of Innovation and Entrepreneurship
- Bachelor of Science
- Bachelor of Social Science

LAW

COMBINED DEGREES

Bachelor of Arts/Bachelor of Laws (Honours)
Broaden your understanding of legal issues by seeing them within a wider context. This combination will complement your legal knowledge with an awareness of the social context of the law.

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

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

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

Bachelor of Development Studies/Bachelor of Laws (Honours)
Law complements a range of professions where a passion for justice and attention to detail are key. By combining law with development studies, you will be able to advocate for change and make a real difference in issues like development, poverty and inequality.

Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours)
You will develop an understanding of the social, political and justice issues impacting the Indigenous community of Australia and use your skills to solve legal challenges in Indigenous affairs and beyond.

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

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

Bachelor of Social Science/Bachelor of Laws (Honours)
The Bachelor of Social Science combination is ideal if you are interested in improving social justice, anti-discrimination and human rights.
You might say Bachelor of Biotechnology (Honours) alumnus and current PhD Candidate in Biological Science Joseph has a growth mindset, in more ways than one. His passion for biology led him to study how plants might survive during climate change and population increases, in order to create food security in the face of potential environmental crises. His research earned him a seat at the UN Conference on Climate Change in Poland in 2018. On another project, Joseph worked with a team using plant seeds as filters to create clean drinking water in Kenya. After he completes his PhD, Joseph’s ambition is to continue teaching and researching. With the world-class facilities and talent available at the University of Newcastle, he’ll work to ensure that our global food sources, and the next generation of students, are both able to flourish.

Joseph
PhD (Biology)
Bachelor of Biotechnology (Honours), 2015

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 Coastal and Marine Science
Bachelor of Environmental Science and Management
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 Food Science and Human Nutrition
Bachelor of Natural History Illustration
Bachelor of Psychological Science

TOP 200
in the world for Geography¹

No. 1
IN NSW
for skill improvement
(Science and Mathematics)²

ERA 5
well above world standard for Biochemistry and Cell Biology, Environmental Science and Management, Genetics, Microbiology, Physical Chemistry, Physiology, Plant Biology, Zoology³

¹ QS World University Rankings by Subject 2019
² Quality Indicators for Learning and Teaching 2018
³ Excellence in Research 2019
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 will 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. Your areas of study will include:

- Biotechnology
- Molecular Genetics
- Medical Biotechnology

**PRACTICAL EXPERIENCE**

This degree offers students the opportunity to apply and undertake 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. Some typical positions include:

- Biocode Analyst
- Biotechnology Specialist
- Medical Biotechnology/Researcher

**ACREDITATION**

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.

**WHAT YOU WILL STUDY**

Choose one area to study in, or choose one of the following majors:

- Biotechnology
- Molecular Biology
- Medical Biotechnology
- Medical Genetics

**PRACTICAL EXPERIENCE**

You will have access to work-class facilities and participate in lab work to help develop your analytical, research and communication skills. You will also have the opportunity to engage in work-integrated learning and gain recognised certifications such as a boat licence, radio operator licence, and drone and remotely operated vehicle operation. Together, these learning will ensure you have skills that are highly sort after by industry and government.

**CAREER OPPORTUNITIES**

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

- Biotechnology Specialist
- Biotechnology Analyst
- Biotechnology Administrator

**ACREDITATION**

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.

**WHAT YOU WILL STUDY**

Choose one area to study in, or choose one of the following majors:

- Biotechnology
- Molecular Biology
- Medical Biotechnology
- Medical Genetics

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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
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 Computer Systems Engineering (Honours)/Bachelor of Science
Physics is fundamental to engineering and a deeper knowledge of this science can help you navigate complex engineering problems. This advanced theoretical background will also open up job prospects in research and development.

Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science
Physics is fundamental to engineering and a deeper knowledge of this science can help you solve more complex engineering problems. This advanced theoretical background will also open up opportunities in research and development.

Bachelor of Environmental Engineering (Honours)/Bachelor of Science
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 Mechanical Engineering (Honours)/Bachelor of Science
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 Mechatronics Engineering (Honours)/Bachelor of Science
Combine your knowledge of electrical, computer and mechanical technologies with a deeper understanding of physics. Comprehensive physics courses can help you solve more complex engineering problems, opening up broader employment opportunities.

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

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

Bachelor of Science/Bachelor of Laws (Honours)
Apply your scientific knowledge to a range of legal contexts including industry, agriculture and the information revolution.
Bachelor of Arts (Honours) alumnus and current Linguistics PhD student Amy feels honoured to be carrying out research that will help a rare language survive into the future. Amy has spent months working with small communities on the island of Emae, Vanuatu. Their language, Fakamae, is endangered, and it’s Amy’s mission to help document and describe it. Amy creates literary resources for the community — dictionaries of local marine and plant life terminology — and records and captures examples of Fakamae speech and vocabulary. With its strong focus on endangered languages, the University’s linguistics program has provided an excellent foundation for Amy’s work. Her research will ensure that the language and culture of the Fakamae community continue to be known — both by younger generations and the rest of the world.

Amy
PhD (Linguistics)
Bachelor of Arts (Honours), 2017

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
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:
- Creative and Performing Arts
- Education
- English and Writing
- Film, Media and Cultural Studies
- German
- Global Indigenous Studies
- History

Minors are available in the above majors as well as:
- Ancient History
- Chinese
- Gender and Sexuality Studies
- Information Technology

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 work-integrated learning courses, independent projects and placements to help you reach your career goals.

CAREER OPPORTUNITIES

Our graduates enjoy great employment prospects with over 88% 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 Commonwealth 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 graduates linked with your chosen areas of specialisation.

Some typical positions 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

Bachelor of Arts/Bachelor of Innovation

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 Arts/Bachelor of Science

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

Bachelor of Arts/Bachelor of Laws (Honours)

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 Arts/Bachelor of Laws (Honours)

Broaden your understanding of legal issues by seeing them within a wider context. This combination will complement your legal knowledge with an awareness of the social context of the law.

Bachelor of Development Studies/Bachelor of Global Indigenous Studies

Development studies focus 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)

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 reserves the right at all times to withdraw or vary degrees listed within this publication. In the event that a degree within this publication has to be changed or withdrawn, applicants will be advised by mail to the address specified by them on their UAC application.

All information is correct at April 2019, but is subject to change as degree content is reviewed and updated.

Employment rates are from the Graduate Surveys Outcome 2017 and 2018.

Future career and industry projections are sourced from Australian Government Job Outlook (joboutlook.gov.au).