

2022 Intro guide

to degrees and subject choices



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA



Why the University of Newcastle?

Whether you're already a local who knows and loves the Newcastle and Central Coast regions, or are from out of town and ready to make the sea change, we've compiled ten reasons to study with us.

1 Top 200 university in the world¹ – here you'll have access to world-class programs, collaborative learning environments, and opportunities to put theory into practice with real-world experiences. Plus, 10 of our subjects are ranked in the top 200 in the world².



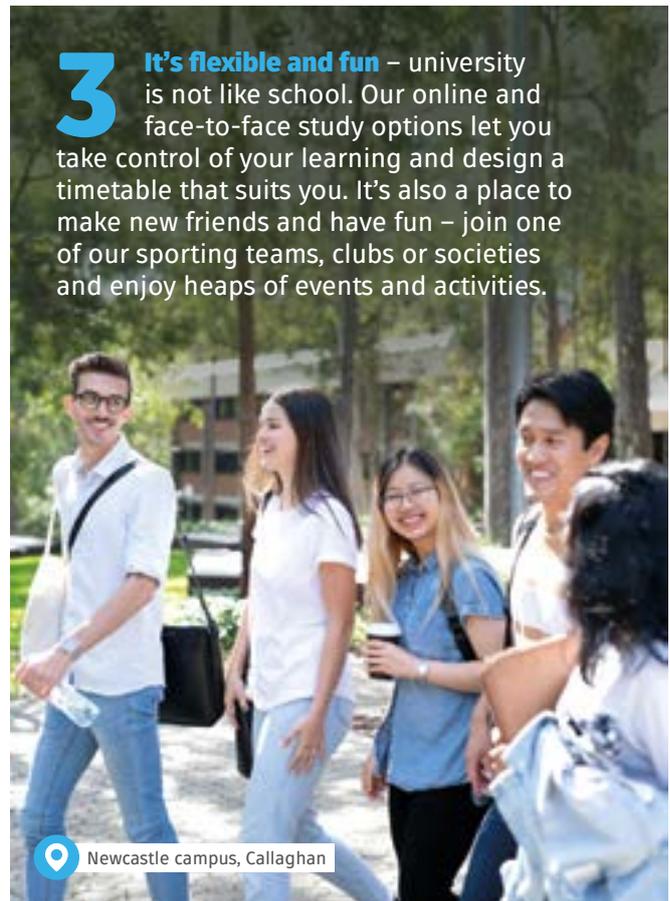
Newcastle City campus, NUspace

4 Cheaper cost of living – while the laid-back, coastal lifestyle is a major drawcard, so is the money you could save by making the sea change, with Newcastle and the Central Coast offering a more affordable cost of living than Sydney.

5 Join a diverse and supportive community – The University of Newcastle has more than 37,000 students from over 113 countries³. Here you'll meet a dynamic group of students, explore global perspectives and kickstart a future full of exciting possibilities.

2 More career opportunities and higher salaries – a University of Newcastle degree means you can pursue a career in a specialised field of your choice. These positions often have higher salaries and more opportunity for career progression.

3 It's flexible and fun – university is not like school. Our online and face-to-face study options let you take control of your learning and design a timetable that suits you. It's also a place to make new friends and have fun – join one of our sporting teams, clubs or societies and enjoy heaps of events and activities.



Newcastle campus, Callaghan

6 No.1 university in Australia for industry collaboration⁴ – if you have passion, drive and big ideas, we're here to help you make them a reality with opportunities for industry collaboration, practical experience and fine-tuning your skills embedded into all our programs.

1 QS World University Rankings 2021

2 QS World University Rankings by Subject 2020

Ranked 197 in the world¹



ANZAC Walk, Newcastle

7 **Beaches, beaches, beaches** – our coastline is world famous. Think long stretches of uncrowded sand, accessible public transport, and the big clincher – free parking! Check out the iconic Merewether Beach or head down the coast to explore the shores of Avoca and Terrigal.

8 **Go global** – our degrees are focused on real-world, global experience. Study part of your degree overseas and gain credit while travelling the globe. Plus, some of our degrees will qualify you to work anywhere in the world.

9 **Vibrant communities** – Newcastle and the Central Coast are home to innovators, entrepreneurs, a dynamic art and music scene, chilled-out cafes, eclectic markets, micro-breweries and small bars. Whether you're checking out a gig, shopping for collectables at boutique markets or grabbing a bite to eat, you'll be spoilt for choice when it comes to food, fashion and fun.

There are lots of reasons why university is a great next step. Studying at university gives you the chance to expand your knowledge, gain real-world experience and pursue a career in an area that excites you, all while making lifelong friends.



Central Coast campus, Ourimbah

10 **But first, coffee** – if there's one thing that we take seriously, it's the coffee culture. From cafes on campus to beachside kiosks, a caffeine hit isn't hard to find.

3 The University of Newcastle Data Warehouse as at 4 February 2020
4 Innovation Connections IC Report 2014 - 2020

Our campuses

Our campuses are welcoming and collaborative environments.

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

newcastle.edu.au/campus-life

 Newcastle City campus, NUspace

Newcastle (City)

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

Newcastle (Callaghan)

Our Newcastle Callaghan campus is a central hub for education, humanities, social science, and the fields of science, technology, engineering, mathematics, and medicine (STEMM), as well as nursing and health. The region's largest hospitals, the Hunter Medical Research Institute, schools, early childcare facilities, and local defence and industrial hubs are all in close proximity to our campus. With all this on your doorstep, you'll have plenty of chances to meet industry leaders and build practical skills.

Central Coast (Ourimbah and Gosford)

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

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

The Pambalong Clan of the Awabakal Nation
Newcastle Callaghan campus

The Awabakal and Worimi Nations
Newcastle City campus

Darkinjung People
Central Coast Ourimbah and Gosford campuses

The Gadigal Clan of the Eora Nation
Sydney campus

Wollotuka

Since 1983, the Wollotuka Institute has provided guidance and support for Indigenous students during their study. In this welcoming and culturally affirming environment, you'll be supported by experienced staff, Elders, cultural leaders and fellow students that help build feelings of belonging and confidence, contributing to your success.

 newcastle.edu.au/wollotuka

The Wollotuka Institute is committed to the advancement of Indigenous education at a local, national and international level

Supporting you, every step of the way

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

The Wollotuka Institute and Thurru (Indigenous health unit) will assist you with mentorship, tutoring and scholarship assistance from experienced staff, Elders and cultural leaders.

We'll offer you programs that provide multiple pathways to uni and beyond, like our Indigenous Early Entry Scheme (Law), with guaranteed places into our law program, and our Yapug pathway program into our undergraduate degrees.

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

Over 1,500

Aboriginal and Torres Strait Islander students have graduated from the University of Newcastle¹, and we couldn't be prouder

¹ The University of Newcastle Data Warehouse, 2020



Student life

Student life is all about making the most of your time at university. One of the great things about the University of Newcastle is that there's always something happening on campus.

 newcastle.edu.au/uni-life

 Newcastle campus, Callaghan

Campus essentials

Whether you're looking for a good coffee to kick-start your day, a bite to eat at lunch or a place to relax in between classes, we've got you covered with a wide range of cafes, food outlets and bars across all our campuses.

We also offer a number of additional services across our campuses to make student life easier including a medical centre and pharmacy, post office, retailers, childcare and counselling.

Clubs, societies and events

The University is home to over 120 clubs, societies and social groups who are always looking for new members – giving you the chance to regularly participate in fun activities. No matter which campus you study at, there are always events happening during the semester. From Orientation to Autonomy Party and plenty of events in between, there is no shortage of social activities.

Staying active

Great health and fitness facilities await you at The Forum University (Callaghan) and Harbourside (Newcastle City). You'll find a 50m indoor heated swimming pool, extensive group fitness options and the latest strength and cardio equipment. Indoor courts are available for casual use and structured social sport competitions all year.

Join one of many sporting clubs or compete in the representative inter-university competition – UniSport Nationals.

theforum.org.au

There are plenty of outdoor spaces with sporting fields, shared paths and dedicated fitness trails on campus – and the covered outdoor recreation area at Ourimbah campus provides a great place for students to be active, social and engaged all year round.

Getting around



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



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



A free city shuttle runs between Callaghan and Newcastle City campus every 30 minutes during semester.

Student support

There are a range of student support services available to help you through your studies, 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/current-students/support

Accommodation

While the thought of moving away from your home town to study might seem daunting, we're here to make this transition as easy as possible. We offer students secure, affordable and comfortable accommodation while studying. Whether it's on-campus accommodation that you're after or a house off campus for you and your friends, we have plenty of options.

 newcastle.edu.au/accommodation

Living on campus

If you want to meet lifelong friends, get involved in social activities, and enjoy countless amenities at your fingertips, on-campus accommodation is a great choice. With eight different residences to choose from at our Callaghan campus, and one at our Ourimbah campus, you're sure to find an option right for you.

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



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



2019 Excellence in Customer Service

Asia-Pacific Student Accommodation Association



Real-world experience

Sometimes it's best to dive straight in. That's why exciting industry experience - like internships, Work Integrated Learning (WIL) and practical placements - are at the core of all our degrees.

Known for our strong partnerships with local and global organisations, your courses are shaped by the real world, meaning you'll graduate ready for a career in your field. Our Career Services team are also on hand to help you out with everything from resumes and employment workshops to advice on your career goals.

newcastle.edu.au/work-integrated-learning



“Doing any kind of work experience as part of your studies is really, really helpful. It gives you that industry experience before you go out into the workforce. You learn new skills, how to collaborate with people and more importantly it builds your confidence as well.”

Cassey

Bachelor of Communication (Media Production)



“I was awarded a Boeing Women in Engineering Scholarship and from that I gained an internship opportunity. This encouraged me to put my classroom learning into practise and work with other people. Because of my success during the position, I gained continuous employment with Boeing.”

Natalia

Bachelor of Information Technology

Study overseas

If you're keen to take your studies around the world you could have the chance to travel and get credit for your degree at the same time while you're here.

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 100 partner universities spanning all major continents, it really is the chance of a lifetime.

newcastle.edu.au/studyoverseas

180 Partnerships in 32 countries

For student exchange and study abroad programs

Getting in

The University of Newcastle is home to many talented, enthusiastic and diverse students – just like you – and providing access for all to higher education is fundamental to who we are. That's why we have a number of pathways, scholarships and entry options to help you with getting in to uni.

 newcastle.edu.au/entry-schemes

Free pathways

We're proud to be the largest provider of enabling programs in Australia.

If you did not complete Year 12 or didn't get the marks for your dream degree, we have enabling programs to get you started.

Newstep

Our free Newstep program offers a guaranteed pathway to an undergraduate degree. Newstep is available for students between 18-20 years of age in the year of study.

Fast-Track Open Foundation

Just a single semester of enabling study means you can move quickly into your degree - even starting mid-year!

Open Foundation

This is a free pathway program for people who do not have the qualifications required for direct entry into an undergraduate degree. Open Foundation offers flexible study options including full-time, part-time and online study.

Yapug - Aboriginal and Torres Strait Islander Students

Our free Yapug pathway program is designed for Aboriginal and Torres Strait Islander people to gain entry into undergraduate degrees. Yapug offers flexible study options including full-time and part-time study. To be eligible, you must be turning at least 18 years of age in the year you commence Yapug and have confirmation of your Indigeneity.

NUPrep Plus

Our NUPrep Plus university preparation program is a free program provides you with academic knowledge, learning support and confidence in the weeks leading up to your new degree.

Scholarships

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 scholarship programs provide:

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

newcastle.edu.au/scholarships

Entry help

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

Schools Recommendation Scheme (SRS)

An early offer pathway based on your Year 11 results and ratings submitted by your high school.

Educational Access Scheme

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

Year 12 Subject Spotlight

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

Elite Athlete Program

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

Regional and Rural Students

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

Year 12 Adjustment Points Scheme

Get up to four adjustment points based on your HSC results in particular subjects.

Aboriginal and Torres Strait Islander Admission Scheme

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

Your path to uni

Year 10

- **What are you interested in?**
Use the study areas in our brochures to narrow down options.
- **Create a list**
Check assumed knowledge and recommended studies and create a list of possible HSC subjects.
- **Choose wisely**
Choose HSC subjects that you are good at and enjoy.
- **Experience university life**
Participate in university events to experience campus life and find out more about degrees.

Year 11

High performing student?

Complete first year university subjects while at school to get a head start.

newcastle.edu.au/highperformers

Sign up

Join our mailing list for information and updates heading into Year 12.

newcastle.edu.au/signup

Boost your chances

Start planning your pathway into university by considering adjustment points and entry schemes.

newcastle.edu.au/entryschemes

Participate in Open Days

Explore the campus, uni life and clubs and societies, whilst having the opportunity to sit in lectures and find out more about the degree you're interested in.

Year 12

Scholarships

Without support, attending university can sometimes seem impossible. We have hundreds of scholarship programs with over 1,000 individual scholarships on offer ranging from \$1,500 to \$75,000.

newcastle.edu.au/scholarships

Apply to uni

When you are ready to apply visit uac.edu.au

Explore at Open Day

Talk to academics, sit in lectures. Find out about scholarships, alternate pathways and academic support you can access from day one.

Start at the University of Newcastle



Ask a student

Find out about student life, studying with us, living on campus or any other questions you may have about going to uni. Or check out the FAQs that our students have answered. You can also chat directly to us about our courses, areas of study, or campus options.

HSC subject selection

We know there are lots of things to consider when deciding on what to study for the HSC. Start with these three steps, and our career ideas guide, to get to know your own interests and where they might lead you.

Step 1 Self-reflection

Self-reflection is a time to focus on you. Before you decide on what subjects you want to study, you should start to think about what your goals are and all the things that interest you.

- What are your goals?
- What interests you and why?
- What are your strengths and weaknesses?
- What are your favourite subjects?
- What do you dislike studying?
- Where do you like to be? (inside or outside)

Step 2 Research careers

You don't have to know exactly what you want to do, but by starting to research careers now, you'll have a better understanding of what path you'll need to take to get there. Check out the career ideas guide to explore areas of interest and possible occupations. Talk to family members and people around you for more ideas and to get a better sense of careers that you might be interested in.

Step 3 Subject selection

Bring together a combination of the subjects that you like and enjoy doing at school, as well as the subjects that are recommended to you by the university you'd like to go to.

Subjects you like:



Recommended subjects:



Subject selection:



Case Study



Sam doesn't know what they want to do when they leave school.

Sam has selected the recommended broad range of subjects (English, Maths and Science), paired with subjects they like and enjoy, to give them the opportunity to change their mind, and discover their passion.

Sam likes these subjects

English, Science and
Legal Studies



Recommended broad range of subjects

One English subject
One Maths subject
One Science subject



Sam's subject selection

1. Advanced English
2. Standard Maths
3. Investigating Science
4. Legal Studies
5. Modern History
6. Photography

Career ideas

This guide shows you some of the subjects you might choose to study in Year 11 and 12, as well as the study areas and careers that those subjects relate to.

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

Uni speak

Some key terms explained

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

Assumed knowledge and recommended studies

Assumed knowledge relates to things you should have studied before starting your degree. Classes will be taught on the assumption that you have a certain level of knowledge when you begin. Recommended studies are directly related to a particular degree and it's highly advised 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.

ATAR

ATAR stands for Australian Tertiary Admission Rank. It's a number between 0.00 and 99.95 that ranks how you perform in the HSC compared to other students.

Your ATAR is calculated partly based on your exam results, so it's not possible to work it out in advance – but there are things you can do to focus on getting a good ATAR:

1. Your English marks are considered first in your ATAR calculation, so great English results are worth a lot.
2. After English, the calculation includes the next best eight units. Choose subjects you like and know you are going to do well in. Some subjects are scaled differently to others. Find out more about how different subjects are scaled at uac.edu.au
3. Don't overthink it. Put your efforts into studying and you'll see the rewards.

Combined degrees

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

Financial assistance

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

newcastle.edu.au/assistance

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. A minor is a specialised area of study without the depth of a major.

Preferences

You can nominate five preferences in your UAC application. List your preferences in order of the degree you'd like to study most, rather than the Selection Rank.

Selection Rank (SR)

This score was the lowest Selection Rank of any school leaver to receive an offer in Semester 1, 2021 based on ATAR plus adjustment points. You may meet the score listed using your ATAR alone, or your Selection Rank (your ATAR plus adjustment points). Please note, some degrees also have additional entry requirements or criteria (such as an audition) so check for these requirements in the degree listing for your chosen program. If criteria in addition to ATAR is considered, the minimum ATAR will be listed as 'A+C' or ATAR + Criteria, and median ATAR will be listed as 'N/A'. If ATAR is not considered, the minimum and median ATAR will be listed as 'N/A'.

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



2022 Under- graduate degrees

Accounting and Finance

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Commerce	65.00	Go from the classroom to the corporate boardroom with a Bachelor of Commerce at the University of Newcastle. Your studies might lead you to work for a global consultancy – assessing the financial validity and future of corporations – or to work with the Reserve Bank, providing economic forecasts to drive official interest rates. There are so many opportunities when you study commerce. All commerce students will gain insight into the global interplay between financial, legal, political and economic systems. You'll look at how these factors influence the contemporary business environment in Australia and across the globe. Recommended studies: Mathematics (Standard or Advanced) Combine this degree with#: • Bachelor of Business • Bachelor of Business Analytics • Bachelor of Innovation and Entrepreneurship Combined • Bachelor of Laws (Honours) Combined	482300	Newcastle – City	3 yrs FT / 8 yrs PT
			482310	Central Coast – Ourimbah	

Architecture, Building and Construction

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Construction Management (Building) (Honours)	62.00	The construction industry in Australia is booming. Construction managers lead and coordinate building and physical infrastructure projects. Working both on and off site, they schedule and coordinate the design and construction process, including selecting, hiring and supervising trade contractors, as well as the budget and legal aspects of the project. The Bachelor of Construction Management (Building) (Honours) has a high level of professional recognition both in Australia and overseas. Our flexible delivery options make it easy for you to study by distance or work in the industry while completing your degree. Recommended studies: English (Standard or Advanced) and Mathematics (Standard or Advanced)	482450	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
			482460	Online	
Bachelor of Design (Architecture)	80.45	Architecture is more than just art and technology. At the University of Newcastle, our Bachelor of Design (Architecture) students are challenged to explore their potential as agents for change. Our graduates don't just design and shape the physical spaces of our cities and buildings – they use architecture to stimulate the places we live and work, engage the community and improve our world. Learn in the state's newest creative innovation centre – Newcastle. Through live projects, you'll develop design principles that emphasise social, economic and environmental sustainability and become a consultative problem solver. Recommended studies: English (Standard or Advanced) and History (Ancient or Modern), plus at least one of Visual Arts, Design and Technology or Industrial Technology	482500	Newcastle – Callaghan	3 yrs FT / 8 yrs PT

Business and Entrepreneurship

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Business	65.00	The Bachelor of Business is dynamic, flexible and industry-engaged and is the key to limitless opportunities across Australia and the world. You might work as a marketing manager – researching products and audiences for a global consumer goods company, revel in your passion for tourism and event management, or turn your great idea into a company and watch it grow. Our degree gives you a firm understanding of the Australian and global business environments and our international outlook immerses you in contemporary business practice, providing new global experiences. Recommended studies: Mathematics (Standard or Advanced) Combine this degree with#: • Bachelor of Business Analytics • Bachelor of Chemical Engineering (Honours) • Bachelor of Civil Engineering (Honours) • Bachelor of Commerce • Bachelor of Development Studies • Bachelor of Electrical and Electronic Engineering (Honours) • Bachelor of Environmental Science and Management • Bachelor of Food Science and Human Nutrition • Bachelor of Information Technology • Bachelor of Innovation and Entrepreneurship Combined • Bachelor of Laws (Honours) Combined • Bachelor of Mechanical Engineering (Honours) • Bachelor of Surveying (Honours)	482200	Newcastle – City	3 yrs FT / 8 yrs PT
			482210	Central Coast – Ourimbah	
Bachelor of Business Analytics	65.00	The Bachelor of Business Analytics focuses on emerging issues in business data management and processing. You'll develop the data skills needed to implement and oversee data-driven business decisions. In recent years, interest and industry demand for business analytics specialists has increased significantly. The quality, quantity and diversity of data available has never been greater, with many organisations relying on the expertise of business analysts to inform decision-making and strategic direction. As a result, career opportunities in this area have boomed. Recommended studies: Business Studies and Mathematics (Standard or Advanced) Combine this degree with#: • Bachelor of Business • Bachelor of Commerce	484871	Newcastle – City	3 yrs FT / 8 yrs PT

Business and Entrepreneurship (Cont.)

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Innovation and Entrepreneurship Combined		The world is rapidly changing and employers are increasingly looking for the next generation of innovative thinkers with entrepreneurial flair. The Bachelor of Innovation and Entrepreneurship Combined provides you with the skills to take an entrepreneurial idea and turn it into a successful new venture. At the same time, this degree equips you to manage the complexities of driving innovation within existing organisations. This degree is designed for idea-generators who can think globally, and design and execute a refined strategy. Recommended studies: Mathematics (Standard or Advanced) Combine this degree with*:		Newcastle – Callaghan and City Campus	4 yrs FT / 10 yrs PT
	62.00	• Bachelor of Arts	482030		
	75.00	• Bachelor of Business	483060		
	75.00	• Bachelor of Commerce	483070		
	92.00	• Bachelor of Laws (Honours) Combined	482485		
77.00	• Bachelor of Science	484040			

Communication and Creative Industries

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Communication	65.65	When you study a Bachelor of Communication, you'll develop cutting-edge skills needed to produce groundbreaking, thought-provoking and engaging work in diverse media industries. With a range of course options, you'll learn to push your individual creative boundaries, while embracing the changing nature of today's complex communication landscape. Choose your major or areas of study and develop work-ready skills – from critical thinking and writing, to creating and producing content for television, film, documentaries, radio, print, gaming and digital media. Assumed knowledge: English (Standard or Advanced) Combine this degree with*:	482350	Newcastle – City Campus	3 yrs FT / 8 yrs PT
		• Bachelor of Development Studies • Bachelor of Laws (Honours) Combined			
Bachelor of Music	N/A [^]	The Bachelor of Music will prepare you for a career in the music industry, where you'll have the opportunity to develop your skills as an instrumentalist, singer, composer, songwriter, music producer, entrepreneur or in other music-related professions. If you've been performing or creating music, then studying a music degree at the University of Newcastle is an excellent way to develop your professional skills and progress your pathway into the industry. In this degree you gain a solid grounding in music theory, technology, industry and collaboration as well as choosing to develop your creative passion and technical skills in areas of focus such as performance, songwriting and production. Assumed knowledge: Music 1 or demonstrated musical experience or qualification equivalent to Music 1 or AMEB (Grade 6 to 8 pass) Admission requirements: Audition and/or interview are required for this degree. See website for more information. Combine this degree with*:	483450	Newcastle – City	3 yrs FT / 8 yrs PT
		• Bachelor of Arts			
Bachelor of Visual Communication Design	63.05	Study a Bachelor of Visual Communication Design at the University of Newcastle to sharpen your skill set and work with experts on real-world creative tasks while gaining vital industry experience. You'll graduate ready to solve problems by tapping into dynamic visual training and design-smarts, empowered to build a business of your own or win a position in diverse organisations in Australia or overseas. Focus your study around interactive media and animation, graphic design and illustration or the creative arts and learn about diverse career opportunities in games, web, film and television, branding and marketing, art and technology. Recommended studies: At least one of Visual Arts, Textiles and Design, Design and Technology or Industrial Technology	484650	Newcastle – City	3 yrs FT / 8 yrs PT



 Central Coast campus, Ourimbah

[^] Refer to degree information on website for further details.

[#] Combined degrees may have differences in Selection Ranks, durations and other criteria. Please see the website for specific information about each combined degree.

Community Services

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2022 Undergraduate degrees

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Criminology	65.00	The job market for related professions in criminology is projected to grow more than 10 per cent in the next five years. This practical, hands-on degree will qualify you to work in criminal justice and allied fields, including careers in law enforcement, courts and corrections, policy, victim's advocacy, human welfare and more. The Bachelor of Criminology draws on criminology, psychology and legal studies to give you an in-depth understanding of crime, with a strong focus on social justice. Recommended studies: English (Advanced) and Mathematics (Standard or Advanced) (for Psychology Studies major) Combine this degree with#: • Bachelor of Laws (Honours) Combined • Bachelor of Psychological Science	484895	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Development Studies	79.00	Development, poverty, inequality and environmental sustainability are some of the most important issues in the world today. You'll focus on key global issues in local, national or international contexts. You could find yourself employed by the Federal Department of Foreign Affairs and Trade, helping developing countries address their internal constraints to trade. On a local level, you could work with Indigenous communities to interpret cultural messages on environmental sustainability. No matter your focus, when you study a Bachelor of Development Studies you'll go on to make a positive difference in the world. Combine this degree with#: • Bachelor of Business • Bachelor of Communication • Bachelor of Global Indigenous Studies • Bachelor of Laws (Honours) Combined • Bachelor of Social Science	482550	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Social Science	62.00	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. Recommended studies: English (Advanced) and Mathematics (Standard or Advanced) (for Psychology Studies major) Combine this degree with#: • Bachelor of Development Studies • Bachelor of Laws (Honours) Combined	484050 484060	Newcastle – Callaghan Central Coast – Ourimbah	3 yrs FT / 8 yrs PT
Bachelor of Social Work (Honours)	78.65	A Bachelor of Social Work leads to a wide variety of rewarding professional career opportunities in health, welfare, policy and advocacy work and enables you to make a difference to individuals, families, groups, organisations and communities. There is a strong demand for qualified social workers in an ever-expanding number of fields and job opportunities are broad and rewarding. Social work fosters a strong commitment to human rights and social justice enabling graduates to encourage social change, tackle structural disadvantage, and create opportunities for others to achieve their goals. Recommended studies: At least one of English (Standard or Advanced), Society and Culture, Community and Family Studies or Languages	484100 484110	Newcastle – Callaghan Central Coast – Ourimbah	4 yrs FT / 10 yrs PT

Combined degrees may have differences in Selection Ranks, durations and other criteria. Please see the website for specific information about each combined degree.



 Newcastle campus, Callaghan

Computing, Maths and Technology

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Computer Science	78.65	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. Assumed knowledge: Mathematics (Advanced) (Band 5 or above) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Computer Systems Engineering (Honours)	482400	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Computer Systems Engineering (Honours)	80.00	As a computer systems engineer, you'll combine creativity and problem-solving with your interest in computing and networks. Graduates have a unique skill set in hardware design, software design, communications systems, and networks. These skills are essential in rapidly growing fields like the Internet of Things, autonomous vehicles, and machine learning. With a Bachelor of Computer Systems Engineering (Honours), you might find yourself developing advanced computing hardware and software for diverse industrial sectors including intelligent transport, e-health, aviation, and civic infrastructure, which are the building blocks of modern society. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Computer Science • Bachelor of Electrical and Electronic Engineering (Honours) • Bachelor of Mathematics • Bachelor of Science (Physics major)	482630	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Information Technology	62.00	Information technology is all about developing, building and maintaining software systems to meet the challenges faced by society and seizing the opportunities that new technology creates. The Bachelor of Information Technology allows you to specialise in business technologies and manage large and complex systems for big corporations and government. If you're passionate about media and entertainment, you could even create exciting games, animations and digital content. Assumed knowledge: English (Standard or Advanced) Combine this degree with*: • Bachelor of Business	483000	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Mathematics	85.00	The Bachelor of Mathematics attracts the very best problem solvers – those who analyse things critically and are eager to make technological discoveries. The computing, maths and technology industries are at the forefront of new thinking, and are central to the way we work, learn, communicate, socialise and entertain ourselves. Through this degree, you might mathematically model the way diseases spread to find a cure for malaria or search for algorithms to speed up computations. You'll use your skills in technology, creativity and logic to push the boundaries and make a difference in society. Assumed knowledge: Mathematics (Advanced) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Chemical Engineering (Honours) • Bachelor of Civil Engineering (Honours) • Bachelor of Computer Systems Engineering (Honours) • Bachelor of Electrical and Electronic Engineering (Honours) • Bachelor of Mechanical Engineering (Honours) • Bachelor of Mechatronics Engineering (Honours) • Bachelor of Science	483200	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Mathematics (Advanced)	95.00	Are you a problem solver? A critical thinker? Maybe you want to use your analytical skills to make innovative technological discoveries? The Bachelor of Mathematics (Advanced) will prepare you for a career far beyond the norm and outside the conventional roles of a mathematician. You'll join a high achieving cohort and build on your previous knowledge in logic, mathematical modelling, experimental design and data analysis. Enhancing your learning with industry experience, you'll build professional connections which will increase your career outcomes. You can work in a wide range of fields including communications, international finance and the futures market, the energy sector, or even medical and health research. Assumed knowledge: Mathematics (Advanced) Recommended studies: Mathematics (Extension 1)	483985	Newcastle – Callaghan	3 yrs FT / 8 yrs PT

Combined degrees may have differences in Selection Ranks, durations and other criteria. Please see the website for specific information about each combined degree.

Education

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2022 Undergraduate degrees

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Education (Early Childhood and Primary)	62.00	Teachers and education professionals have the power to influence lives and shape young minds. The Bachelor of Education (Early Childhood and Primary) leads to a rewarding career that allows you to work across two different settings: <ul style="list-style-type: none"> • Preschool and early childhood (birth – five years) • Primary School (Kindergarten – Year 6) You'll be prepared to work with diverse families and children in childcare centres, preschools, and primary school classrooms. Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced)	484750	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
			484760	Central Coast – Ourimbah	
Bachelor of Education (Primary)	62.00	Discover how you can empower future generations and influence positive change within classrooms and communities. As a primary teacher, you could find yourself inspiring the next generation of leaders or developing a program to encourage early interest in industries like maths and science. Being a primary teacher goes well beyond teaching maths and ABCs – you'll play a critical role in the growth and transition of children into young adults. Use your skills and knowledge to nurture strong and confident people capable of impacting the world. Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced)	484800	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
			484810	Central Coast – Ourimbah	
Bachelor of Education (Secondary)	62.00	Where else could you combine your passion for education, explore subject areas you're interested in and apply your in-depth knowledge and skills to inspire young minds? Our graduates are both qualified teachers and highly skilled specialists who work in education as well as a range of related industries. You could find yourself encouraging a student to follow their passions in science – inspiring them to go on to make groundbreaking discoveries – or helping the quiet student to find their voice in public speaking and debating. With this degree, you'll be at the forefront, shaping the minds of tomorrow's leaders. Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced) Recommended studies: English (Standard or Advanced), Mathematics (Extension 1) (for Mathematics major) and study in the area of intended teaching area	484860	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
			484870	Central Coast – Ourimbah	



Newcastle City campus, NUspace

Engineering

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Aerospace Systems Engineering (Honours)	81.30	Aerospace systems engineering involves a systems approach to the design, efficient operation and modification of high-tech devices for the aeronautical and defence industries. A key challenge for the development of aerospace systems is the need to be as light-weight as possible, yet highly reliable. Aerospace systems engineers need to understand and control the response of aerospace vehicles and manage complex interactions between sensors, controllers, actuators and other aircraft subsystems. Aerospace systems engineering principles deal with the complementary design of aircraft subsystems to ensure they work in unison, without conflict and with the high levels of reliability required in aerospace operations. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1)	482707	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Chemical Engineering (Honours)	81.80	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 biofuel 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. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Business • Bachelor of Mathematics • Bachelor of Science	482600	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Civil Engineering (Honours)	80.00	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. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Business • Bachelor of Environmental Engineering (Honours) • Bachelor of Mathematics • Bachelor of Surveying (Honours)	482610	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Electrical and Electronic Engineering (Honours)	81.25	Engineers solve problems and develop technology using mathematics, science and creativity for the advancement of humanity. Electrical and electronic technologies are at the heart of our world and our future, including things like alternative energy systems, high speed wireless data communications, electrical transportation systems, micro and nano-electronics, robotics and automation, and medical technologies. Electrical and electronic engineers work on both the hardware and software (the intelligence) behind the myriad of devices essential to address the needs of modern society. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Business • Bachelor of Computer Systems Engineering (Honours) • Bachelor of Mathematics • Bachelor of Mechatronics Engineering (Honours) • Bachelor of Science (Physics major)	482640	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Engineering (Mining Transfer Program)	80.00	Mining engineering is the design, supervision and management of coal, mineral and metal mines and their associated infrastructure, with minimal damage to environments. You'll gain a sound understanding of civil and mining engineering concepts in preparation for a career as a professional engineer. The mining engineering program involves two years of study at the University of Newcastle with the remaining two years undertaken at the University of New South Wales or the University of Wollongong. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1)	482720	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Environmental Engineering (Honours)	80.90	As an environmental engineer you may help rehabilitate land impacted by mining or work on the clean-up of an oil spill that threatens ecosystems. You could even help prevent flooding of some of the world's fast-growing cities. Environmental engineers apply their knowledge of chemistry, geomechanics, hydrology and land surface processes to find solutions to complex environmental problems. With a Bachelor of Environmental Engineering (Honours), you'll be responsible for developing sustainable engineering practices that have a profound impact on health and quality of life – working with other specialists to optimise the use of resources and minimise long-term environmental impacts. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Civil Engineering (Honours) • Bachelor of Science (Earth Sciences major)	482650	Newcastle – Callaghan	4 yrs FT / 10 yrs PT

Combined degrees may have differences in Selection Ranks, durations and other criteria. Please see the website for specific information about each combined degree.

Engineering (Cont.)

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2022 Undergraduate degrees

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Mechanical Engineering (Honours)	80.80	Mechanical engineers design, manufacture and optimise specialist machines and processes. They solve important problems using robotics, new advanced materials, the fundamental laws of energy generation and transmission and the computer control of physical systems – from nano to mega-tonne scale. They work on everything from power plants, to air conditioners, aircraft engines and race cars. With a Bachelor of Mechanical Engineering (Honours), you could design self-driving farm machinery for ultra-efficient food production, or build revolutionary biomechanical solutions for people with disabilities. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Business • Bachelor of Mathematics • Bachelor of Mechatronics Engineering (Honours) • Bachelor of Science (Physics major)	482670	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Mechatronics Engineering (Honours)	82.35	The Bachelor of Mechatronics Engineering (Honours) focuses on the synergy of electrical, computer and mechanical technologies that lead to new solutions to industrial problems. You might build robots or unmanned aircraft, design bionic implants or even energy harvesting equipment. Mechatronics engineers are involved in the technical design, automation and operational performance of the electromechanical systems used in industries such as defence, advanced manufacturing, mining and health. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Electrical and Electronic Engineering (Honours) • Bachelor of Mathematics • Bachelor of Mechanical Engineering (Honours)	482680	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Medical Engineering (Honours)	83.50	Medical engineering is a new and exciting discipline of engineering spanning medicine, biomedical science and engineering. Medical engineers seek to improve human health through the development and design of equipment, devices, computer systems and software. A degree in medical engineering allows you to combine your interest in health and medicine with creativity and problem-solving to address health care challenges such as metabolic disorders, remote diagnostics, and health care accessibility. We offer the only medical engineering degree in NSW, so our graduates are uniquely placed to improve lives both locally and around the world. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1)	482690	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Renewable Energy Engineering (Honours)	81.35	One of the biggest challenges humankind faces is the transition to a renewable energy economy. The success of this evolution depends on the creative solutions of a new generation of renewable energy engineers with specialised skills. Spanning the disciplines of chemical, electrical and mechanical engineering, the Bachelor of Renewable Energy Engineering (Honours) will equip you to work across the whole spectrum of technologies for renewable energy capture, conversion, storage, delivery and management. You'll also choose courses in related areas of climate change policy, law and economics and environmental sciences. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1)	482708	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Software Engineering (Honours)	83.05	Software engineering is behind much of the everyday technology we take for granted – from our iPads, computer software and mobile phones through to digital televisions, computer games and online banking. With the Bachelor of Software Engineering (Honours), you might develop software for digital forensics analysis to help fight crime, or work in defence and combat cyber attacks. You could design wearable health management devices or write the software that powers e-commerce websites. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1)	482700	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Bachelor of Surveying (Honours)	81.30	Surveyors specialise in the measurement, management, analysis and display of spatial information describing the Earth and its physical features. The work of surveyors knows no bounds and could see you play an important role both locally and globally. With the Bachelor of Surveying (Honours), you could be involved in projects like the preparation for building of a new tunnel, or mapping of flood areas for disaster preparedness. Your work as a surveyor could even see you involved in the prediction of earthquakes and surveying of the ocean floor. Assumed knowledge: Mathematics (Advanced) (Band 5 or 6) and at least one science-related subject (Physics or Chemistry preferred) Recommended studies: Mathematics (Extension 1) Combine this degree with*: • Bachelor of Business • Bachelor of Civil Engineering (Honours)	482705	Newcastle – Callaghan	4 yrs FT / 10 yrs PT
Diploma in Engineering	N/A [^]	Develop your knowledge and skills of engineering through real-world projects and problem-solving. The Diploma in Engineering has been designed to provide a core knowledge base that prepares you with the appropriate academic literacy, research, science, mathematics and introductory engineering skills required to go onto further study or into the workforce. Recommended studies: Mathematics (Standard or Advanced)	489920	Newcastle – Callaghan	1 yr FT / 4 yrs PT

[^] Refer to degree information on website for further details.

Combined degrees may have differences in Selection Ranks, durations and other criteria. Please see the website for specific information about each combined degree.

Health and Medical Services

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Biomedical Science	75.10	Bachelor of Biomedical Science graduates have the knowledge and skills to contribute to the global advancement of medical research, practice and policy. You'll have the opportunity to study a wide range of courses that provide advanced theoretical knowledge in physiology, anatomy, biochemistry, medical genetics and immunology. The range of courses maximises flexibility enabling you to tailor your degree to your career aspirations in medical research, laboratory medicine or the health professions. Hands-on experience in clinical laboratories and industry environments is a key component of the Bachelor of Biomedical Science. Recommended studies: Mathematics (Standard or Advanced) and Chemistry and at least one of Physics or Biology	482100	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Exercise and Sport Science	73.50	People use exercise for a whole range of reasons, from staying fit and healthy, managing disease and health conditions as well as competing in recreational and elite sports. Exercise and sport science is an inspiring and rapidly evolving field that explores how best to prescribe and deliver exercise for health and performance benefits. You could find yourself leading a team of research scientists to discover a new link between brain function and diet or develop a new format of exercise that produces greater results. At the University of Newcastle, we have a globally recognised Bachelor of Exercise and Sport Science program that encompasses all aspects of physical health delivered through a combination of online and face-to-face teaching. Assumed knowledge: At least two of Biology, Chemistry, Mathematics (Standard or Advanced) or Physics Recommended studies: Personal Development, Health and Physical Education (PDHPE)	482800	Central Coast – Ourimbah	3 yrs FT / 8 yrs PT
Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)	92.90	Diagnostic radiography is an important first step to diagnosing, treating and managing injuries and disease. Through the Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography), you'll learn how to use sophisticated technology to create medical images and analyse and manage patient health. Diagnostic radiographers work in a variety of public and private settings in metropolitan, regional and rural areas. The medical images you produce will allow accurate diagnosis and play an important role in improving patient outcomes in both acute and chronic presentations. Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics	483355	Newcastle – Callaghan	4 yrs FT
Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)	72.00	As a nuclear medicine scientist, you'll apply medical imaging technologies and radioactive chemical compounds (called radiopharmaceuticals) to image the function or physiology of the body. Nuclear medicine scientists use this knowledge to diagnose, treat and manage injuries and diseases such as sports injuries, cardiovascular disease and cancer in patients across their lifespan. Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics	483365	Newcastle – Callaghan	4 yrs FT
Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)	75.35	Radiation therapy uses sophisticated radiation technology to target, shrink and destroy cancer cells. The University of Newcastle is a leading radiation therapy trainer and our graduates are sought after worldwide. As a radiation therapist you'll work in a multidisciplinary team to treat and manage cancer. You'll also have the opportunity to develop new techniques to improve patient outcomes. Studying a Bachelor of Medical Radiation Science (Honours) (Radiation Therapy) will set you on a path to make your mark on the world. Assumed knowledge: English (Standard or Advanced) and Mathematics (Standard or Advanced) or Physics	483375	Newcastle – Callaghan	4 yrs FT
Bachelor of Medical Science and Doctor of Medicine (Joint Medical Program)	N/A [^]	Studying to be a doctor is challenging and rewarding. The program provides students with the skills and knowledge to begin a career focused on helping restore, maintain and promote individual and community health in Australia and around the world. The field of medicine is rapidly changing, with advances in technology and research enabling new therapies and improved patient outcomes. Doctors play an important role in multidisciplinary health teams, contributing expertise in the diagnosis and treatment of a range of health conditions. Students also have to option to study at our Central Coast Clinical School. Recommended studies: English (Standard or Advanced) Entry requirements: There are additional entry requirements for this degree. See website for more information.	785000	Newcastle – Callaghan	5 yrs FT
Bachelor of Midwifery	A+C*	As a midwife, you'll be focused on caring for women, babies and their families during pregnancy, labour, birth and the early infancy period. You'll work with women and families to achieve the best health outcomes for mothers and their babies. Our Bachelor of Midwifery has been developed in partnership with, and supported by Local Health Districts so that our midwifery students provide direct clinical care under the supervision of a registered midwife. Assumed knowledge: English (Band 4 or higher), Mathematics (Standard) plus Biology or Chemistry Entry requirements: There are additional entry requirements for this degree. See website for more information.	483400	Newcastle – Callaghan	3 yrs FT
Bachelor of Nursing	86.15	As one of the most trusted professions, nurses make a real difference to the health and wellbeing of the community. Nurses work in a variety of environments, providing excellence in care to individuals, families, and communities. They are a highly employable workforce across Australia and around the world. Whichever career path you choose as a registered nurse, when you study a Bachelor of Nursing, you can be sure that you'll be making an important and meaningful contribution to society. Recommended studies: English (Standard or Advanced), Mathematics (Standard) and Biology	483600 483610	Newcastle – Callaghan Central Coast – Ourimbah	3 yrs FT / 6 yrs PT

* ATAR + other selection criteria.

[^] Refer to degree information on website for further details.

Combined degrees may have differences in Selection Ranks, durations and other criteria.

Please see the website for specific information about each combined degree.

Health and Medical Services (Cont.)

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2022 Undergraduate degrees

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Nutrition and Dietetics (Honours)	75.25	Demand for Bachelor of Nutrition and Dietetics (Honours) graduates is growing as diet and nutrition-related diseases – such as heart disease, diabetes and obesity – become increasingly common worldwide. As a student, you'll have access to world-class researchers and educators, and will learn how to use the latest evidence to manage patient health and discover the powerful science of human nutrition. A career in nutrition and dietetics is immensely rewarding, as you help people understand how nutrition and health are intertwined. You'll help prevent disease, improving overall health in your community and worldwide. Recommended studies: Chemistry	483650	Newcastle – Callaghan	4 yrs FT
Bachelor of Occupational Therapy (Honours)	92.70	Do you want to support people and communities to overcome unique challenges and to get the most out of everyday life? The work of an occupational therapist is incredibly broad. With the Bachelor of Occupational Therapy (Honours), you can enable children to reach developmental milestones or improve their occupational participation in all areas of their lives. You could assist people to return to their daily lives after a stroke or hip replacement, or design programs that allow people to return to their jobs after a workplace injury. Recommended studies: Biology and Mathematics (Standard or Advanced)	483700	Newcastle – Callaghan	4 yrs FT
Bachelor of Oral Health Therapy	90.35	As an oral health therapist, you'll work closely with dental practitioners to provide a range of preventive and restorative procedures like cleaning, scaling, polishing and x-rays, restorations and primary extractions. The Bachelor of Oral Health Therapy program is the only one in NSW that provides dual qualifications in dental hygiene and dental therapy, with the scope of practice qualifying you to treat both children and adults. Recommended studies: Chemistry and Biology	483750	Central Coast – Ourimbah	3 yrs FT
Bachelor of Pharmacy (Honours)	75.00	Pharmacists play an integral role in the provision of healthcare services. As a pharmacist, you'll be on the industry frontline – counselling people on the best use and management of medications. When you study a Bachelor of Pharmacy (Honours), you'll learn how to provide advice on the symptoms and management of common ailments, prepare and formulate medications, and educate the community on a wide range of health and wellbeing matters. Assumed knowledge: Mathematics (Extension 1 or 2) or Mathematics (Band 5 or 6), English (Advanced), Chemistry and Physics	483800	Newcastle – Callaghan	4 yrs FT
Bachelor of Physiotherapy (Honours)	98.05	Bachelor of Physiotherapy (Honours) graduates work with people of all ages to help them stay well and maintain their function, independence and quality of life. You'll study evidence-based-physiotherapy clinical skills and develop capabilities in critical thinking, problem-solving, communication and lifelong learning. Physiotherapy graduates work in various public and private settings including hospitals, rehabilitation and community centres, aged care, with sporting teams and in private practice. The Bachelor of Physiotherapy (Honours) integrates academic theory with extensive practical experience to produce graduates who are ready to meet the challenges of the changing healthcare system. Assumed knowledge: Chemistry, English (Advanced) and at least one of Physics or Biology	483850	Newcastle – Callaghan	4 yrs FT
Bachelor of Podiatry	70.95	The Bachelor of Podiatry is the only three-year, accelerated, undergraduate podiatry degree in Australia. As a podiatrist, you'll help clients get back on their feet by diagnosing, treating and preventing lower leg and foot problems and promoting good health. You could find yourself managing sports injuries and complex lower limb complications in people with chronic disease, addressing developmental issues in children or helping restore a person's independence and mobility. University of Newcastle podiatry graduates are highly employable thanks to our world-class podiatry clinic. Assumed knowledge: Chemistry and Mathematics (Standard or Advanced)	483900	Central Coast – Ourimbah	3 yrs FT
Bachelor of Psychological Science	63.10	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 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. Assumed knowledge: Mathematics (Standard) Recommended studies: Biology Combine this degree with*: • Bachelor of Criminology	483970	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
			483980	Central Coast – Ourimbah	
Bachelor of Psychological Science (Advanced)	95.00	Understanding the science behind human behaviour, the human brain and its effect on the way we act and why, form the foundation of psychological science. The Bachelor of Psychological Science (Advanced) will not only help you deepen your understanding of theoretical methodologies – but with opportunities to participate in Work Integrated Learning (WIL), you'll develop valuable connections with industry and other professionals to improve employment outcomes when you graduate. This fascinating and evolving field will prepare you to work in a broad range of industries where you can positively impact the lives of others. Assumed knowledge: Mathematics (Advanced) Recommended studies: Biology	483975 483985	Newcastle – Callaghan Central Coast – Ourimbah	3 yrs FT / 8 yrs PT
Bachelor of Public and Community Health	70.00	Did you know the most common global health issues are largely preventable? If being part of the solution excites you, this degree is the place to start. Public health professionals work to improve the health of communities around the world. They develop policies and health promotion programs to address infectious disease, homelessness, poverty, lifestyle behaviours, and to improve the environments we live in. Issues like rising rates of chronic disease, healthcare costs and an increased need for research on disease prevention mean there's a growing need for skilled public health professionals in the workforce.	483860	Central Coast – Ourimbah	3 yrs FT / 8 yrs PT

Health and Medical Services (Cont.)

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Speech Pathology (Honours)	75.15	Speech pathologists are allied health professionals responsible for the assessment and treatment of children and adults with communication and swallowing disorders across a range of practice areas including speech, language, voice, fluency, swallowing and multimodal communication. When you undertake a Bachelor of Speech Pathology (Honours) at the University of Newcastle, you'll have the opportunity to study with award-winning researchers and gain an understanding of the profession through substantial clinical experience. Recommended studies: Biology, Chemistry, Mathematics (Standard or Advanced) and English (Advanced)	484150	Newcastle – Callaghan	4 yrs FT / 10 yrs PT

Law

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Laws (Honours) Combined	92.00	Our Bachelor of Laws (Honours) Combined degree is your entry to a career as a lawyer, or a range of other professions where a passion for justice and attention to detail are key. This degree is offered as a combined program, which means you'll undertake your degree in conjunction with another degree, and receive two qualifications in only five years of study. Newcastle Law School runs a unique Practice Program that integrates the academic study of law with hands-on clinical experience and practical training. Students work with real clients under the supervision of legal practitioners at the University of Newcastle Legal Centre. Combine this degree with*: <ul style="list-style-type: none"> • Bachelor of Arts • Bachelor of Business • Bachelor of Commerce • Bachelor of Communication • Bachelor of Criminology • Bachelor of Development Studies • Bachelor of Global Indigenous Studies • Bachelor of Innovation and Entrepreneurship Combined • Bachelor of Science • Bachelor of Social Science 	483100	Newcastle – Callaghan and City Campus	5 yrs FT

Combined degrees may have differences in Selection Ranks, durations and other criteria. Please see the website for specific information about each combined degree.



 ANZAC walk, Newcastle

Science and the Environment

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2022 Undergraduate degrees

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Biotechnology	75.10	Imagine using living organisms to modify products for the better – like creating a new vaccine to save millions of lives. When you study a Bachelor of Biotechnology, you'll help to develop technologies that improve our communities and the health of our planet. You might even be the researcher that develops a super crop that can survive harsh climates and feed the hungry. The products of biotechnology are all around us and you can be at the forefront of scientific development and discovery. Assumed knowledge: Mathematics (Standard) and Chemistry Recommended studies: Physics	482150	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Climate Science and Adaptation	62.00	The Bachelor of Climate Science and Adaptation is a specialised degree which will allow you to turn your passion into practice. It will provide you with fundamental tools to tackle the many challenges associated with quantifying and dealing with climate-related risks. You'll learn how to assess the impacts of climate variability and change. You'll also learn how to develop adaptation strategies (e.g. infrastructure, planning policy) that not only reduce the economic, environmental, and social costs of climate hazards, but are also optimal and robust across a range of plausible futures. Through our partnerships with external industries and government agencies, you'll also have the opportunity to engage in work – and research – integrated learning when you apply your studies to complete a major transdisciplinary capstone project in the final year. Assumed knowledge: Mathematics (Standard) Recommended studies: At least one of Biology, Chemistry, Earth and Environmental Science or Physics	484875	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
Bachelor of Coastal and Marine Science	62.60	Are you a lover of the ocean? A passionate conservationist who wants to make sure our marine environment is sustained for years to come? Australia is home to some of the most unique and diverse coastlines and marine ecosystems in the world and we need to make sure they remain protected. By understanding the conservation and management issues they face – such as climate change, pollution and overfishing – we can help find solutions to these problems. When you study a Bachelor of Coastal and Marine Science, you'll be learning from experts in marine, coastal and ecological fields – giving you practical skills to make a difference in our world. Through professional pathways, students can tailor their program to meet their career aspirations. Assumed knowledge: Mathematics (Standard) Recommended studies: At least one of Biology, Chemistry or Earth and Environmental Science	484026 484036	Newcastle – Callaghan Central Coast – Ourimbah	3 yrs FT / 8 yrs PT
Bachelor of Environmental Science and Management	62.00	If you want to contribute to solving the environmental problems facing our society, and have a passion for sustainability, then the Bachelor of Environmental Science and Management is for you. The University of Newcastle is centrally situated to give you hands-on experience in areas of vast environmental diversity, from terrestrial landscapes, to wetlands and coastal zones. We offer the perfect environment for you to gain an understanding of the critical issues placing a growing strain on the Earth's natural resources and develop tactics to combat them. Assumed knowledge: Mathematics (Standard) and at least one of Chemistry, Biology or Earth and Environmental Science Combine this degree with*: • Bachelor of Business	482750 482760	Newcastle – Callaghan Central Coast – Ourimbah	3 yrs FT / 8 yrs PT
Bachelor of Food Science and Human Nutrition	62.10	As an increasingly health-conscious society drives change, the specialty areas of food science and human nutrition require people with a passion for innovative thinking. As a food and nutrition scientist, you could work with fresh or processed foods, developing new products, or analysing existing ones, to ensure that they are nutritionally balanced, safe to eat, environmentally friendly, and desirable to purchase. With a Bachelor of Food Science and Human Nutrition, you'll stay up-to-date on the latest scientific developments and be equipped with the specialist knowledge and skills needed for a successful career in the food science, health and nutrition industries. Recommended studies: Chemistry, Biology and Mathematics (Standard) Combine this degree with*: • Bachelor of Business	482900	Central Coast – Ourimbah	3 yrs FT / 8 yrs PT
Bachelor of Science	62.00	The immense field of science is exciting and always evolving. It underpins areas such as technology, industry, business, agriculture, environment, research and development, health, and the information revolution. The Bachelor of Science will provide you with a new way of learning and a new path to discovery. Develop practical business and communication skills that will complement and enhance your science knowledge. The network you build and the communication skills you develop will make you a highly-skilled and employable science graduate who will contribute solutions to the scientific challenges we are facing. Assumed knowledge: Mathematics (Standard) Recommended studies: At least one of Biology, Chemistry, Physics or Earth and Environmental Science Combine this degree with*: • Bachelor of Arts • Bachelor of Chemical Engineering (Honours) • Bachelor of Computer Systems Engineering (Honours) • Bachelor of Electrical and Electronic Engineering (Honours) • Bachelor of Environmental Engineering (Honours) • Bachelor of Innovation and Entrepreneurship Combined • Bachelor of Laws (Honours) Combined • Bachelor of Mathematics • Bachelor of Mechanical Engineering (Honours)	484020 484030	Newcastle – Callaghan Central Coast – Ourimbah	3 yrs FT / 8 yrs PT

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Science and the Environment (Cont.)

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Science (Advanced)	95.00	Gone are the days of the stereotypical scientist – in today's society, scientists need to work across research, industry and discipline boundaries to create solutions to the world's most complex issues. You might work in a lab, discovering life-changing scientific breakthroughs, or use science to shape government policy. The Bachelor of Science (Advanced) will allow you to join a high achieving cohort and create your own academic adventure. Tailor your majors and professional pathways to achieve your career goals. You'll have access to specialised mentoring, exposure to the wider College of Engineering, Science and Environment community and opportunities to participate in Work Integrated Learning (WIL) and industry engagement. Assumed knowledge: Mathematics (Advanced) Recommended studies: At least one of Biology, Chemistry, Physics or Earth and Environmental Science	484025	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
			484035	Central Coast – Ourimbah	

Society and Culture

Degree name	2021 SR		UAC Code	Location	Duration
Bachelor of Arts	62.00	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. Recommended studies: English (Advanced) (for all majors) and Mathematics (Standard or Advanced) (for Psychology Studies major) Combine this degree with*: • Bachelor of Innovation and Entrepreneurship Combined • Bachelor of Laws (Honours) Combined • Bachelor of Music • Bachelor of Science	482010	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
			482040	Online	
Bachelor of Global Indigenous Studies	62.00	Do you want to work effectively with local and global communities using Indigenous knowledge systems to respond to ecological, social and economic challenges? The Wollotuka Institute within the University of Newcastle is committed to the advancement of Indigenous education at a local, national and international level. You could find yourself in a range of vocations that require social innovation and digital excellence, utilising critical Indigenous knowledge to address pressing global issues. This degree is designed to deliver culturally aware and innovative social advocates and is open to all students. Some selected majors are available fully online. Combine this degree with*: • Bachelor of Development Studies • Bachelor of Laws (Honours) Combined	482001	Newcastle – Callaghan	3 yrs FT / 8 yrs PT
			482002	Online	
Diploma in Languages	N/A [^]	Learning one or more foreign languages develops in-demand skills and opens many doors to diverse careers, travel and other unique opportunities. The Diploma in Languages is available to Australian students and is studied in conjunction with an undergraduate degree, which means you'll finish with two qualifications in less time.	N/A [^]	Newcastle – Callaghan	2-6 yrs PT

[^] Refer to degree information on website for further details.

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The University of Newcastle reserves the right at all times to withdraw or vary degrees listed within this publication. Entry schemes are also subject to change. In the event that a degree within this publication has to be changed or withdrawn, applicants will be advised by mail to the address specified by them on their UAC application.

Selection ranks are indicative only, and are based on Semester 1 2021 offers made in UAC December Round 2 2020.

All information is correct as of January 2021, but is subject to change as degree content is reviewed and updated. For the most up-to-date information visit newcastle.edu.au

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

 newcastle.edu.au/signup

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Open Days

Every year we invite you to spend the day with us at our annual Open Days. These events give you the chance to explore our facilities and talk to current students and staff about life on campus, student support services as well as degrees and study options.

If you can't make it to an Open Day, you can always check out our Open Week Online site where we've put together webinars and on-demand videos to help you find the information you're looking for.

newcastle.edu.au/open-day