2021 UNDERGRADUATE DEGREES
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The University of Newcastle acknowledges the Traditional Custodians of the lands on which our campuses are located. The Worimi nation and the Pambalong clan of the Awabakal nation (Newcastle) and Darkinjung people (Central Coast). 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.
LARGEST PROVIDER OF ALTERNATIVE ENTRY PROGRAMS IN AUSTRALIA

TOP 10 UNIVERSITY IN AUSTRALIA

5 STAR RATING FOR SOCIAL EQUITY

1. QS World University Rankings 2020
2. 2020 Good Universities Guide
3. Department of Education Selected Higher Education Statistics – 2017 Student Data
<table>
<thead>
<tr>
<th>YOU LIKE</th>
<th>YOU COULD STUDY</th>
<th>YOU COULD BE</th>
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<tbody>
<tr>
<td>Business Studies, Economics, Maths</td>
<td>ACCOUNTING AND FINANCE</td>
<td>Accountant, Economist, Financial Planner, Investment Banker, Mortgage Broker, Stockbroker</td>
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<tr>
<td>Business Studies, Design and Technology, Economics, Geography, Maths, Physics</td>
<td>ARCHITECTURE, BUILDING AND CONSTRUCTION</td>
<td>Architect, Building Certifier, Drafter, Product Designer, Project Manager, Property Developer</td>
</tr>
<tr>
<td>Business Studies, English, Geography, Languages, Maths</td>
<td>BUSINESS AND ENTREPRENEURSHIP</td>
<td>Account Manager, Business Development Officer, Entrepreneur, Human Resources Officer, Marketing Officer, Sports Development Officer</td>
</tr>
<tr>
<td>Art, Design and Technology, Drama, Movies and Television, Writing, Music and Social Media</td>
<td>COMMUNICATION AND CREATIVE INDUSTRIES</td>
<td>Animator, Artist, Copywriter, Filmmaker, Graphic Designer, Journalist, Multimedia Designer, Musician, Public Relations Officer</td>
</tr>
<tr>
<td>Biology, Community and Family Studies, Geography, Health and Physical Education, Maths, Society and Culture</td>
<td>COMMUNITY SERVICES</td>
<td>International Aid Worker, Migrant Support Officer, Policy Developer, Social Worker, Town Planner, Youth Worker, Environmental Manager, Human Geographer</td>
</tr>
<tr>
<td>Art, Design and Technology, Drama, English, Geography, History, Maths, Music, Science</td>
<td>EDUCATION</td>
<td>English as a Second Language Teacher, Learning and Development Consultant, Sport and Recreation Officer, Special Education Teacher, Teacher</td>
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<tr>
<td>Business Studies, Economics, English, Languages, Legal Studies, Media and Entertainment Studies</td>
<td>LAW</td>
<td>Contracts Manager, Industrial Relations Officer, International Aid Worker, Lawyer, Lobbyist, Political Adviser</td>
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<tr>
<td>Art, English, Geography, History, Languages, Music, Religion, Society and Culture</td>
<td>SOCIETY AND CULTURE</td>
<td>Cultural Heritage Conservationist, Community Development Worker, Demographer, Historian, Media Analyst, Translator</td>
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### Accounting and Finance

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2020 SR</th>
<th>Page</th>
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<tbody>
<tr>
<td>Bachelor of Commerce</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>65.00</td>
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</table>

**Combined Degrees**

- Bachelor of Business/Bachelor of Commerce
- Bachelor of Commerce/Bachelor of Innovation and Entrepreneurship
- Bachelor of Commerce/Bachelor of Laws (Honours)

### Architecture, Building and Construction

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2020 SR</th>
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<tbody>
<tr>
<td>Bachelor of Construction Management (Building) (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>62.85</td>
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</tr>
<tr>
<td>Bachelor of Design (Architecture)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>80.25</td>
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### Business and Entrepreneurship

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Bachelor of Business</td>
<td>3 yrs FT / 8 yrs PT</td>
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<tr>
<td>Bachelor of Innovation and Entrepreneurship Combined</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>N/A²</td>
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**Combined Degrees**

- Bachelor of Arts/Bachelor of Innovation and Entrepreneurship
- Bachelor of Business/Bachelor of Commerce
- Bachelor of Business/Bachelor of Innovation and Entrepreneurship
- Bachelor of Chemical Engineering (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
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
- Bachelor of Engineering Science and Management/Bachelor of Business
- Bachelor of Food Science and Human Nutrition/Bachelor of Business
- Bachelor of Information Technology/Bachelor of Business
- Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
- Bachelor of Science/Bachelor of Innovation and Entrepreneurship
- Bachelor of Surveying (Honours)/Bachelor of Business

### Communication and Creative Industries

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2020 SR</th>
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</thead>
<tbody>
<tr>
<td>Bachelor of Communication</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>64.00</td>
<td>50</td>
</tr>
<tr>
<td>Bachelor of Creative Industries</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.90</td>
<td>50</td>
</tr>
<tr>
<td>Bachelor of Music</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>N/A²</td>
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<tr>
<td>Bachelor of Visual Communication Design</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
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**Combined Degrees**

- Bachelor of Communication/Bachelor of Laws (Honours)
- Bachelor of Creative Industries/Bachelor of Innovation and Entrepreneurship
- Bachelor of Music/Bachelor of Arts

### Community Services

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<th>Degree Name</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Bachelor of Development Studies</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>79.00</td>
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<tr>
<td>Bachelor of Social Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
<td>56</td>
</tr>
<tr>
<td>Bachelor of Social Work (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>75.00</td>
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**Combined Degrees**

- Bachelor of Development Studies/Bachelor of Business
- Bachelor of Development Studies/Bachelor of Social Science
- Bachelor of Development Studies/Bachelor of Global Indigenous Studies
- Bachelor of Development Studies/Bachelor of Laws (Honours)
### COMPUTING, MATHS AND TECHNOLOGY

<table>
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<tbody>
<tr>
<td>Bachelor of Computer Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>78.70</td>
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<tr>
<td>Bachelor of Computer Systems Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>86.30</td>
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</tr>
<tr>
<td>Bachelor of Information Technology</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.50</td>
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<tr>
<td>Bachelor of Mathematics</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>85.00</td>
<td>61</td>
</tr>
<tr>
<td>Bachelor of Mathematics (Advanced)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>95.00</td>
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<tr>
<td>Bachelor of Technology (Renewable Energy Systems)</td>
<td>1 yrs FT / 4 yrs PT</td>
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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 Systems Engineering (Honours)/Bachelor of Business
- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics

### EDUCATION

<table>
<thead>
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<th>DURATION</th>
<th>2020 SR</th>
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<tbody>
<tr>
<td>Bachelor of Education (Early Childhood and Primary)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>62.00</td>
<td>66</td>
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<tr>
<td>Bachelor of Education (Primary)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>62.00</td>
<td>66</td>
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<tr>
<td>Bachelor of Education (Secondary)</td>
<td>4 yrs FT / 10 yrs PT</td>
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### ENGINEERING

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<th>DURATION</th>
<th>2020 SR</th>
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<tbody>
<tr>
<td>Bachelor of Aerospace Systems Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Chemical Engineering (Honours)</td>
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<tr>
<td>Bachelor of Civil Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Electrical and Electronic Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>83.30</td>
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<tr>
<td>Bachelor of Engineering (Mining Transfer program)</td>
<td>4 yrs FT / 12 yrs PT</td>
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<tr>
<td>Bachelor of Environmental Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Mechanical Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Mechatronics Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>82.90</td>
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<tr>
<td>Bachelor of Medical Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>81.25</td>
<td>74</td>
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<tr>
<td>Bachelor of Renewable Energy Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>85.90</td>
<td>74</td>
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<tr>
<td>Bachelor of Software Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>80.50</td>
<td>75</td>
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<tr>
<td>Bachelor of Surveying (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>82.60</td>
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**COMBINED DEGREES**

- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Chemical Engineering (Honours)/Bachelor of Environmental Engineering (Honours)
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Civil Engineering (Honours)/Bachelor of Surveying (Honours)
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Science (Physics major only)
- Bachelor of Surveying (Honours)/Bachelor of Business
### Health and Medical Services

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2020 SR</th>
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<tbody>
<tr>
<td>Bachelor of Biomedical Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>75.00</td>
<td>80</td>
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<tr>
<td>Bachelor of Exercise and Sport Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>73.00</td>
<td>80</td>
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<tr>
<td>Bachelor of Food Science and Human Nutrition</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
<td>81</td>
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<tr>
<td>Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)</td>
<td>4 yrs FT</td>
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<tr>
<td>Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)</td>
<td>4 yrs FT</td>
<td>69.55</td>
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<tr>
<td>Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)</td>
<td>4 yrs FT</td>
<td>70.50</td>
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<tr>
<td>Bachelor of Medical Science and Doctor of Medicine (Joint Medical Program)</td>
<td>5 yrs FT</td>
<td>N/A</td>
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<tr>
<td>Bachelor of Midwifery</td>
<td>3 yrs FT</td>
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<tr>
<td>Bachelor of Nursing</td>
<td>3 yrs FT / 6 yrs PT</td>
<td>76.00</td>
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<td>Bachelor of Nutrition and Dietetics (Honours)</td>
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<td>Bachelor of Oral Health Therapy</td>
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<td>Bachelor of Physiotherapy (Honours)</td>
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<td>Bachelor of Podiatry</td>
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<td>Bachelor of Psychological Science</td>
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<td>62.00</td>
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<tr>
<td>Bachelor of Psychological Science (Advanced)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>95.00</td>
<td>88</td>
</tr>
<tr>
<td>Bachelor of Public and Community Health</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>64.00</td>
<td>88</td>
</tr>
<tr>
<td>Bachelor of Speech Pathology (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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### Combined Degrees
- Bachelor of Food Science and Human Nutrition/Bachelor of Business

### Law

<table>
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<tbody>
<tr>
<td>Bachelor of Laws (Honours) Combined</td>
<td>3 yrs FT</td>
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**Combined Degrees**
- Bachelor of Arts/Bachelor of Laws (Honours)
- Bachelor of Business/Bachelor of Laws (Honours)
- Bachelor of Commerce/Bachelor of Laws (Honours)
- Bachelor of Communication/Bachelor of Laws (Honours)
- Bachelor of Development Studies/Bachelor of Laws (Honours)
- Bachelor of Global Indigenous Studies/Bachelor of Laws (Honours)
- Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)
- Bachelor of Science/Bachelor of Laws (Honours)
- Bachelor of Social Science/Bachelor of Laws (Honours)

### Science and the Environment

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2020 SR</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>Bachelor of Biotechnology</td>
<td>3 yrs FT / 8 yrs PT</td>
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</tr>
<tr>
<td>Bachelor of Coastal and Marine Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
<td>96</td>
</tr>
<tr>
<td>Bachelor of Environmental Science and Management</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
<td>97</td>
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<tr>
<td>Bachelor of Science</td>
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<td>62.00</td>
<td>97</td>
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<tr>
<td>Bachelor of Science (Advanced)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>95.00</td>
<td>98</td>
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</table>

**Combined Degrees**
- Bachelor of Arts/Bachelor of Science
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Computer Systems Engineering (Honours)/Bachelor of Science
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science (Physics major only)
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science
- Bachelor of Environmental Science and Management/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Science (Physics major only)
- Bachelor of Mathematics/Bachelor of Science
- Bachelor of Science/Bachelor of Innovation and Entrepreneurship
- Bachelor of Science/Bachelor of Laws (Honours)

### Society and Culture

<table>
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<th>Duration</th>
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<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
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<tr>
<td>Bachelor of Global Indigenous Studies</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.00</td>
<td>102</td>
</tr>
<tr>
<td>Diploma in Languages</td>
<td>2-6 yrs PT</td>
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**Combined Degrees**
- Bachelor of Arts/Bachelor of Innovation and Entrepreneurship
- Bachelor of Arts/Bachelor of Science
- 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 Ranks
2. See degree information for further details
3. ATAR + other selection criteria. See degree information for further details.

Combined degrees - see degree information for further details on individual Selection Ranks and duration.
So, you're ready to jump into uni life, to take control of your learning, decide what you study, and how. Uni is a place of discovery, a place to make new friends, to uncover things about yourself, about others, and the world. Here, you'll find new passions, new perspectives. You'll collaborate. You'll grow. And you'll learn how to make an impact. It's all here, just waiting.
Thank you for 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 more than 37,000 students from 113 countries, you’ll always feel welcome here. Your experience here as a student is at the heart of what we do.

We are recognised by QS World University Rankings 2019 as number 207 globally, and 10 of our subjects are in the top 200 and we have 10 subjects ranked in the top 200.

Our degrees are shaped around work placements, global learning and entrepreneurial approaches to study. We offer the latest technologies and innovative learning spaces to deliver an exceptional educational experience.

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’re committed to offering every student an opportunity to get work experience – we call it work-integrated learning – before they graduate.

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

I look forward to welcoming you to our beautiful campuses.

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

It doesn’t matter what your background is or what your circumstances are, we want to give everyone the chance to go to, and thrive, at university.

Our entry options mean there’s more than one pathway to get into your degree and our scholarships will give you the extra support that might be needed to get you through your studies.

"Wollotuka actually feels like a second home to me. Most of the time when I’m studying I’ll go to Wollotuka and there’ll be other students there who I went through the Yapug program with and I’m now studying my medical degree with, so it kind of feels like home."

James
Bachelor of Medical Science
Ma & Morley Scholar

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. We’re also a leader in Indigenous employment and are committed to providing a culturally safe place to work and study. 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, you can also study the Bachelor of Global Indigenous Studies and complete elective courses focusing on Indigenous culture through Wollotuka. Wollotuka also provides scholarships, tutorial assistance, employment opportunities and other services 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.

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.
“Music is a universal language that has the power to cross barriers.”

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

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

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

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

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

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

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

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

Katherine
Bachelor of Music
Ma & Morley Scholar

52% DOMESTIC UNDERGRADUATE ENROLMENTS ARE 'FIRST IN FAMILY'
With outstanding graduate employment rates, you can be confident you’ll gain the knowledge, industry connections and real-world experience needed to create the career you want.

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

**INDUSTRY PARTNERS**

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

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

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

**300+ INDUSTRY PARTNERS IN 2019**

**Sophie**
Bachelor of Business, 2018

**90% OF OUR GRADUATES FIND EMPLOYMENT WITHIN FOUR MONTHS OF GRADUATING**

- ABOVE THE AUSTRALIAN UNIVERSITY AVERAGE

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

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

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

For Bachelor of Business alumnus Sophie, being able to channel creativity into her studies made all the difference. Having majored in marketing, Sophie took advantage of the University’s focus on work-integrated learning and strong global connections. She had the opportunity to meet, network and share ideas with professionals from many different walks of life. This included the team at Red Bull Energy Drink – where Sophie undertook a full-time summer internship program. Not only did she gain valuable real-world experience and industry contacts, she was also offered a part-time job with the company. Sophie now works for creative agency, Enigma, as an Account Coordinator.

$62,600
MEDIAN STARTING SALARY FOR UNDERGRADUATE EMPLOYMENT – ABOVE THE NATIONAL AVERAGE¹

¹ QILT Graduates Outcomes Survey 2017-2019
² The University of Newcastle Research Partners Engagement Survey 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 participate in interactive learning. Maybe you’ll advance your teaching skills in a simulated classroom, use 3D printing to develop a prototype for your high-rise design, or learn how to deliver babies through virtual reality.

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

STUDENT JOURNEY

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

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

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.

10 IN TOP 200

10 SUBJECTS RANKED IN THE TOP 200 IN THE WORLD

1 The University of Newcastle Data Warehouse as at 4 February 2020
2 QS World University Rankings by Subject 2019
BRINGING IMMERSIVE TEACHING TO THE CLASSROOM

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

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

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

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

Professor Mike Hazelton
Professor of Mental Health Nursing
School of Nursing and Midwifery
Sometimes it’s best to dive straight in. That’s why having the chance to get exciting industry experience is part of all our degrees.

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

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

“It’s amazing because you actually get to see what it’s like in the real world and how a big production operates. These are the experiences where you really learn and grow and it’s great that the University can provide this.”

Cody
Bachelor of Communication (Media Production)

“The University and the engineering faculty gives students so many opportunities to meet other engineers and form lasting relationships within the industry. Through my internship, I’ve gained valuable professional experience and seen firsthand the impact I can have on communities.”

Janita
Bachelor of Chemical Engineering (Honours)

“Completing a practical teaching placement in Vanuatu was one of the most rewarding and eye-opening experiences of my life. I was grateful to have the opportunity to give lots of educational resources to these children and see them thrive.”

Zoe
Bachelor of Education (Early Childhood and Primary)
"Joining the iLEAD Plus program was one of the best decisions I've made while studying at the University of Newcastle.

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

Jennifer
Master of Business Administration/
Master of Marketing

"I did an international study experience in Bali as part of an environmental science immersion trip. We consulted on projects involving wildlife conservation, restoration ecology and coral rehabilitation. It was such a great opportunity to apply the skills and knowledge I have gained from my degree in real-world scenarios."

Emilee
Bachelor of Science

"I think the University of Newcastle is one of the best when it comes to giving practical experience to their students. I actually got a lucky opportunity to work at South Sydney Sports Medicine where I learnt a lot of my knowledge and application to what I do today."

Bronwyn
Bachelor of Physiotherapy, 2015

ILEAD PLUS
iLEAD Plus is the point of difference you need to position yourself as a valuable, adaptive and engaged leader in a global graduate marketplace.
iLEAD Plus is a global-facing leadership program that will connect you with local, national and international networks and experiences to accelerate your professional development and career readiness. Through carefully curated workshops, mentoring relationships and international experiences, you’ll develop a set of skills, traits and perspectives that will position you as a leader of tomorrow.

newcastle.edu.au/ilead

"Joining the iLEAD Plus program was one of the best decisions I've made while studying at the University of Newcastle.

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

Jennifer
Master of Business Administration/
Master of Marketing
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 offer the facilities, courses, mentors and support you need to 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.

No. 1 RANKED UNIVERSITY IN AUSTRALIA FOR INDUSTRY COLLABORATION

PUT YOUR LEARNING TO THE TEST WITH INNOVATION HACKATHONS AND CROSS-DISCIPLINARY CHALLENGES

Daniel and Bal from the winning team, Borne
The Grand Challenge 2019

1 Innovation Connections IC Report 2014 - 2019
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.

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

newcastle.edu.au/i2n
Are you keen to take your studies around the world? When you study here, you could travel and get credit for your degree at the same time. There are opportunities for international experiences across every area of study, whether it’s an overseas exchange program, study tour or work placement. Build global connections, discover new cultures, try new food and make friends from all over the world. With more than 100 partner universities spanning all major continents, it really is the chance of a lifetime.

[Image: newcastle.edu.au/studyoverseas]

180 PARTNERSHIPS IN 32 COUNTRIES
for student exchange and study abroad programs

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

[Image: newcastle.edu.au/new-colombo-plan]
EXPERIENCES ACROSS THE GLOBE

Julia, Bachelor of Business
Richan, China

A lovely bunch to travel to China with 🇨🇳 #uninewcastle
9 July 2019

Chantelle, Bachelor of Civil Engineering
Hallstatt, Austria

What a town #uninewcastle
20 December 2018

Skye, Bachelor of Communication
Jakarta, Indonesia

Exploring the streets of Jakarta with my new friends #uninewcastle
29 September 2019

Alyssa, Bachelor of Psychological Science
Mele, Vanuatu

Still running on Island time 🌴 #uninewcastle
24 July 2019
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 and Gosford) 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 Callaghan 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. With all this on your doorstep, you’ll have plenty of chances to meet industry leaders and build practical skills.

CENTRAL COAST CAMPUSES OURIMBAH AND GOSFORD

For more than 30 years the University has developed pathways and provided opportunities for students from all backgrounds to gain world-class education on the Central Coast. The broad range of study options is 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 sports). The establishment of the Central Coast Clinical School, currently under construction, will see us expand our campus into Gosford. It will offer state-of-the-art teaching facilities and deliver graduates ready to meet the growing needs of the medical and health workforce on the Central Coast and around Australia.
MORE THAN
$100 MILLION INVESTED INTO THE NEWCASTLE CITY CAMPUS OVER THE PAST FIVE YEARS

NEWCASTLE CITY CAMPUS
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, startup founders 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 in late 2021, will enrich your learning experience with specialised studios and technologies, and offer shared spaces to connect with staff, industry and community.

We acknowledge the Traditional Custodians of the lands on which our campuses are located:
The 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
LIVE LIKE A LOCAL

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

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

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

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

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

5 Get back to nature – are you looking for an outdoor adventure? Head to Glenworth Valley or the TreeTops Adventure Park, both located on the Central Coast. Glenworth offers heaps of outdoor activities including horse riding, quad biking, kayaking, abseiling and even laser skirmish! You can camp there too, so make sure to bring some marshmallows. If you’re after an adrenaline boost, give the self-guided high ropes course at TreeTops a crack.

6 Tune out – catch some live music at the iconic Cambridge Hotel, the Bar on the Hill at Callaghan campus or festivals like Groovin The Moo, Mountain Sounds or Lost Paradise. Newcastle and the Central Coast are renowned for their killer music scenes, and there are always plenty of home-grown and international gigs to enjoy.

NATIONAL GEOGRAPHIC SMART CITY

1 National Geographic Smart Cities 2017
8 Market-mania – browse the stalls and grab some grub at artisanal markets like the Avoca Beachside or Olive Tree Markets. Sample some great local produce at the farmers market on Sunday mornings at the Broadmeadow Showground or Gosford City Farmers Markets. Or, if you prefer to sleep in, visit one of the many cafés lining Terrigal Esplanade, Beaumont or Darby Street – they’ve carefully selected only the best local produce and coffee for you.

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

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

10 Flock to the flicks – relax and recline in a squishy armchair at one of the big cinemas. If you’re looking for more character, support local institutions the Regal Cinema in Birmingham Gardens, where loose change gets you a ticket, drinks and snacks, or enjoy a film under the stars at the Heddon Greta drive-in.

visitnewcastle.com.au
visitcentralcoast.com.au
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

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

**FESTIVALS AND EVENTS**
No matter which campus you study at, there’s always something happening during the semester. From Orientation to Autonomy Party and plenty of events 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 watching a movie 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 basketballer? Art appreciator? A diver? Dancer? Anime enthusiast? Be part of something new, something exciting. Challenge yourself, or just have fun.
newcastle.edu.au/clubs
SERVICES ON HAND

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

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

newcastle.edu.au/services

GETTING AROUND

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

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

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

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

STAYING ACTIVE

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

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

theforum.org.au

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

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

STUDENT LIFE

27
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 suit you.

newcastle.edu.au/accommodation

LIVING ON CAMPUS

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

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

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 around-the-clock security, internet access, two swimming pools, a large communal kitchen, laundry facilities and common rooms across the precinct, featuring televisions, table tennis and a foosball table. Students living on campus at Callaghan also have exclusive access to a free shuttle bus to the nearby shopping precinct.

LIVING OFF CAMPUS

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

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

offcampusaccommodation.newcastle.edu.au
HOUSING
OPERATION OF
THE YEAR AWARD
2017
Asia-Pacific Student
Accommodation Association

2019
EXCELLENCE IN
CUSTOMER SERVICE
Asia-Pacific Student
Accommodation Association
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 an HSC student, you may be eligible for a maximum 12 adjustment points added to your ATAR.

newcastle.edu.au/entryoptions

ENTRY HELP

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

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 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 and Torres Strait Islander. You’ll be invited to participate in selection interviews and have access to advice and support to help with your application.
NON-SCHOOL LEAVERS
Are you looking to apply for university but haven’t completed the HSC within the last 12 months? That means you’re considered a non-school leaver.
newcastle.edu.au/nonschoolleaver

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

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

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

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

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

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

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

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

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

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

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

To be eligible for this program, you must:
- have attempted Year 12, or have completed a post-secondary qualification, or were unable to complete secondary schooling due to adverse circumstances
- be an Australian citizen or permanent resident currently living in Australia
- be turning 18 to 20 years old in the year you will commence Newstep

[newcastle.edu.au/newstep](newcastle.edu.au/newstep)

**YAPUG**

**ABORIGINAL AND TORRES STRAIT ISLANDER STUDENTS**

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

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

To be eligible for this program, you must be:
- turning at least 18 years of age in the year you commence Yapug
- of Aboriginal and Torres Strait Islander descent

[newcastle.edu.au/yapug](newcastle.edu.au/yapug)

**OPEN FOUNDATION**

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

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

To be eligible for this program, you must:
- be an Australian citizen or permanent resident currently living in Australia.

[newcastle.edu.au/openfoundation](newcastle.edu.au/openfoundation)

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

The programs are offered free of charge and are designed to not only help you gain entry to an undergraduate degree, but develop the skills needed to prepare you for success once you’re in. Upon successful completion of the programs, you’re guaranteed entry to over 40 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 and Newstep), as well as to many other universities and training programs around the country.

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

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

**FREE 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 into a degree, we offer you access to university studies regardless of your background or level of previous education.
SCHOLARSHIPS

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

Each year, more than $3 million in scholarships is awarded to students. Our scholarship programs align to the University’s values of excellence, equity, sustainability and engagement and are designed to recognise achievement and support enthusiastic and dedicated students.

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

THE MA & MORLEY SCHOLARSHIP PROGRAM

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

The Program was established through a generous $26 million philanthropic commitment by Chinese entrepreneur Jack Ma, in honour of his lifelong friendship with respected Novocastrian Ken Morley.

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

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

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

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

Visit the website to find a scholarship that fits for you.

newcastle.edu.au/ma-morley

“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.”

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

newcastle.edu.au/ma-morley
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 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 University of Newcastle Prep bridging and refresher course prior to starting your degree. The courses are free and are available both online and on campus. newcastle.edu.au/uonprep

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

FACULTY
An organisational unit with responsibility for academic programs, often with a number of sub-units called Schools. All degrees will be owned by a particular 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 and income support. newcastle.edu.au/assistance

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

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

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

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

QUALIFICATION
• Diploma: a program of study requiring 80 units to be completed.
• Associate degree: a program of study requiring 160 units to be completed.
• Bachelor degree: the university level qualification for entry into many professions.
• Honours: some degrees allow you to get an additional qualification that helps boost your chances of employment. Embedded honours is included as part of your degree and end-on honours is a separate additional year of study that you elect to complete.
• Higher Degree by Research (HDR): is a postgraduate university degree involving a unique supervised research project. These degrees are either a Masters of Philosophy or a Doctoral degree (either Professional Doctorate or a PhD).
• Postgraduate degree: Any qualification being at the level of Graduate Certificate or above.

SELECTION RANK
This score is the lowest Selection Rank of any school leaver to receive an offer in Semester 1, 2020 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 or interview) so check for these requirements in the degree listing for your chosen program. If criteria in addition to ATAR is considered, the minimum ATAR will be listed as ‘A+C’ or ATAR + Criteria’, and median ATAR will be listed as ‘N/A’. If ATAR is not considered, the minimum and median ATAR will be listed as ‘N/A’.

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

STUDENT SUPPORT
We have a range of services available to help you, such as:
• Peer Assisted Study Sessions (PASS): one-hour weekly review sessions.
• Learning Support: for tips, workshops and resources from our Learning Advisers.
• Careers and Student Development: for access to valuable work experience opportunities and employment help. newcastle.edu.au/support

UNIVERSITIES ADMISSIONS CENTRE (UAC)
UAC is the central office that receives and processes applications for admission to most undergraduate degrees, advanced diplomas and diploma courses at participating tertiary institutions. uac.edu.au

WORK-INTEGRATED LEARNING (WIL)
Work experiences built into most degrees where you can apply your classroom theory to a real-world setting.
STUDY OPTIONS

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

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

newcastle.edu.au/study/undergraduate
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) Combined

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

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

1 Times Higher Education Subject Rankings 2020
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 participant in the University of Newcastle’s iLead Plus international leadership program, 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 Enables Communities**

Julia

Bachelor of Business/Bachelor of Commerce
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:

- 100 hours of work placement (if you choose to participate in workplace experience)
- The EMPOWER mentoring program for female students
- Short-term work placements
- International immersion tours
- Student exchange opportunities

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects with 93.8% securing jobs upon completion of their degree. If you find working with numbers stimulating, you could have a lucrative career in a variety of roles, including:

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

PROFESSIONAL RECOGNITION
Our Accounting major is accredited through CPA Australia (CPA), Chartered Accountants Australia and New Zealand (CA ANZ), Association of Chartered Certified Accountants (ACCA) and the Association of International Accountants (AIA).

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

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

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

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

95.9%
of Architecture and Building graduates found employment within four months²

No. 1
IN NSW
for skills development, median salary and student support³

1. QS World University Rankings by Subject 2019
2. QILT Graduates Outcomes Survey 2017-2019
3. The Good Universities Guide 2020
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. 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)
Ma & Morley Scholar
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
- estimating
- construction ecology and technology
- estimating economics, finance and tendering
- law, health and safety
- management and communication

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

CAREER OPPORTUNITIES
The construction industry continues to grow. Over the past five years, employment in the NSW construction industry has increased by 33% and 94% of our graduates find work within four months of completing their degree, with an average starting salary of $80,000.

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

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

Fully endorsed by five professional bodies in Australia and internationally:
- Australian Institute of Building (AIB)
- Australian Institute of Building Surveyors (AIBS)
- Australian Institute of Quantity Surveyors (AIQS)

BACHELOR OF
DESIGN (ARCHITECTURE)

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
- sustainable design practices
- digital and parametric design processes
- making conceptual and realistic models in our workshop

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

CAREER OPPORTUNITIES
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:
- Designer
- Project Manager
- Drafter
- Technician
- 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.
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.

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

DEGREE OPTIONS
- Bachelor of Business
- Bachelor of Innovation and Entrepreneurship Combined

ALSO CONSIDER
- Bachelor of Commerce

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

1 Shanghai Ranking's Global Ranking of Academic Subjects 2019
2 QILT Graduates Outcomes Survey 2017-2019
Liam hopes that through his actions he can show others how small gestures can create a ripple effect of positivity. Just three weeks into his degree, at age 18, Liam started his own surf brand – Eat Your Water. The brand’s mission is to promote environmental conservation, using the t-shirts as walking billboards of positivity. Today, Eat Your Water is one of the largest independent surf brands in Australia. As a Bachelor of Business and Bachelor of Innovation and Entrepreneurship student, Liam wants to share his knowledge and experience with other young people who are eager to start businesses and encourage them to use their platform to make a real difference in the world. And as a Ma & Morley, he hopes to grow in his capacity as a change leader.

Liam
Bachelor of Business/Bachelor of Innovation and Entrepreneurship
Ma & Morley Scholar
Our 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 sport and seek a career in sport 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 you with new global experiences.

WHAT YOU WILL STUDY
Choose to major in one or two of the following areas:
- Entrepreneurship and Innovation
- Governance, Policy and Political Economy
- Human Resource Management
- International Business

PRACTICAL EXPERIENCE
We place importance on learning experiences beyond the classroom to give you professional skills and knowledge. Take advantage of internships and project-based learning, including:
- 100 hours of work placement (if you choose to participate in workplace experience)
- the EMPOWER mentoring program for female students
- student exchange opportunities

CAREER OPPORTUNITIES
Our graduates go on to have exciting, stimulating and lucrative careers in the private, government and not-for-profit sectors in Australia and internationally. Some typical positions include:
- Business Development Manager
- Digital Marketing Analyst
- Employee Relations Manager
- Human Resources Officer
- International Affairs Officer
- Marketing Coordinator
- Product and Brand Manager
- Tourism and Events Agent

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

COMBINE THIS DEGREE WITH
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Civil Engineering (Honours)
- Bachelor of Commerce
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Development Studies
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Environmental Science and Management
- Bachelor of Food Science and Human Nutrition
- Bachelor of Information Technology
- Bachelor of Innovation and Entrepreneurship
- Bachelor of Laws (Honours)
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Surveying (Honours)

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

WHAT YOU WILL STUDY
This degree gives you the flexibility to select an area of study suited to your interests and combine it with teaching and mentoring in entrepreneurship and innovative thinking. This degree is studied in combination with either a Bachelor of Business, Commerce, Laws (Honours), Arts, Science or Creative Industries.

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

CAREER OPPORTUNITIES
Innovation and entrepreneurs are at the forefront of economic growth both domestically and internationally. Graduates with entrepreneurial thinking and the ability to devise innovative solutions to common problems are increasingly sought after. You may develop your own ideas into successful new ventures, and have the opportunity to create your own career. Some typical positions include:
- Account Manager
- Business Development Officer
- Business Owner
- Consultant for government, organisations and communities
- Entrepreneur
- Innovation Manager
- Inventor
- Startup Founder

PROFESSIONAL RECOGNITION
When delivered in combination with either the Bachelor of Business or Bachelor of Commerce, this degree is accredited through the Association to Advance Collegiate Schools of Business (AACSB), earned by fewer than five per cent of the world’s business programs. When you study the Bachelor of Innovation and Entrepreneurship, in conjunction with another degree, some individual majors within these degrees may be accredited. Please see individual degree listings for further detail.

COMBINE THIS DEGREE WITH
- Bachelor of Arts
- Bachelor of Business
- Bachelor of Commerce
- Bachelor of Creative Industries
- Bachelor of Laws (Honours)
- Bachelor of Science

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

**Bachelor of Arts/Bachelor of Innovation and Entrepreneurship**

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

**Bachelor of Business/Bachelor of Commerce**

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

**Bachelor of Business/Bachelor of Innovation and Entrepreneurship**

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

**Bachelor of Business/Bachelor of Laws (Honours)**

Experience in law is a valuable asset within the business sector. Develop your skills and forge a career as a corporate or in-house lawyer.

**Bachelor of Chemical Engineering (Honours)/Bachelor of Business**

Complement your technical skills with business acumen and entrepreneurship. Learn how to manage people and finances, propose new business opportunities and market your product.

**Bachelor of Civil Engineering (Honours)/Bachelor of Business**

Broaden your understanding of the Australian and global business environments. This combination ensures you will have specialist in-depth business knowledge while possessing a strong understanding of the world of civil engineering.

**Bachelor of Commerce/Bachelor of 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 outcomes.

**Bachelor of Development Studies/Bachelor of Business**

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

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

Complement your technical skills with management skills, business acumen, entrepreneurship and the ability to commercialise engineering innovations. Prepare yourself for a leadership role with this unique package of capabilities.

**Bachelor of Environmental Science and Management/Bachelor of Business**

Broaden your understanding of human impacts on the environment and apply your business skills and experience to develop solutions to global environmental challenges.

**Bachelor of Food Science and Human Nutrition/Bachelor of Business**

This combination allows students to undertake and match business skills with their interest in food and nutritional sciences – a synergy that will maximise graduate employability.

**Bachelor of Information Technology/Bachelor of Business**

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

**Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)**

This combination is for people who are interested in turning big ideas into new ventures, with the added understanding of the surrounding legal environment.

**Bachelor of Mechanical Engineering (Honours)/Bachelor of Business**

Complement your strong understanding of business affairs with the ability to commercialise engineering innovations, with this unique package of capabilities.

**Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business**

Mechatronics engineers are involved in the technical design, automation and operational performance of electromechanical systems. Complement your technical knowledge with business acumen to bring new innovations to the professional world.

**Bachelor of Science/Bachelor of Innovation and Entrepreneurship**

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

**Bachelor of Surveying (Honours)/Bachelor of Business**

A business degree gives you a firm understanding of the Australian and global business environments. This combination ensures you will have specialist business knowledge while possessing a strong understanding of surveying.
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

No. 1 IN NSW
for overall educational experience and learning resources (Communications)

84.3%
Creative Arts students give us top marks for teaching - higher than national average

DEGREE OPTIONS
Bachelor of Communication
Bachelor of Creative Industries
Bachelor of Music
Bachelor of Visual Communication Design

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

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

1 The Good Universities Guide 2020
2 QILT Student Experience Survey 2017 - 2018
REID DRAWS ON EXPERIENCE

When Bachelor of Visual Communication Design (Honours) alumnus 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 rounded 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), 2019
COMMUNICATION AND CREATIVE INDUSTRIES

**BACHELOR OF COMMUNICATION**

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<th>LOCATION</th>
<th>DURATION</th>
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<td>3 yrs FT / 8 yrs PT</td>
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**ASSUMED KNOWLEDGE**

- English (Standard) or English (Advanced)

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

**WHAT YOU WILL STUDY**

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

You can specialise in one or two of the following majors:
- Experience Creation
- Media Production
- News and Digital Media

Additional major options are available to study alongside one Communication major. Choose from Visual Communication Design majors of Animation or User Experience (UX) Design.

**PRACTICAL EXPERIENCE**

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

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with 81.4% securing jobs upon completion of their degree. Graduates can find employment in a variety of roles across many different types of organisations.

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

**COMBINE THIS DEGREE WITH**

- Bachelor of Laws (Honours)

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**BACHELOR OF CREATIVE INDUSTRIES**

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<td>3 yrs FT / 8 yrs PT</td>
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**ASSUMED KNOWLEDGE**

- English (Standard) or English (Advanced)

**RECOMMENDED STUDIES**

At least one (depending on intended major/minor study in the program) of English (Advanced), Drama, Design and Technology, Information Processes and Technology, Music 1, Music 2, Software Design and Development, Visual Arts, or Video and Digital Imaging

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**

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
- A double minor – 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 venues dedicated to the development and production of creative outputs. This includes our purpose-built NUspace building in the heart of Newcastle city’s cultural precinct, designed and positioned to maximise interdisciplinary collaboration and industry networking.

**CAREER OPPORTUNITIES**

Studying this degree will give you 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
- Film-maker
- Musician

**COMBINE THIS DEGREE WITH**

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

- Music Performance
- Songwriting and Production

Additional major options are available alongside your Music major. Choose from Visual Communication Design major, Animation or Communication major, Media Production major.

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

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

- A&R Administrator/Representative
- Composer/Arranger
- Film/Game Music Composer
- Music Producer/Engineer
- Musical Theatre Artist
- Animator
- Creative Director
- Graphic Designer
- Illustrator
- Interactive Media Designer/Developer
- User Experience Designer
- Web Designer

COMBINE THIS DEGREE WITH
- Bachelor of Arts
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.
COMMUNITY SERVICES

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

newcastle.edu.au/study/community-services

DEGREE OPTIONS

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

ALSO CONSIDER

Bachelor of Psychological Science

No. 1 IN NSW
for learner engagement (Social Work)¹

TOP 150
in the world for Hospitality and Tourism Management²

88.4%
of Social Work graduates found employment within four months³

¹ The Good Universities Guide 2020
² ShanghaiRankings’ Global Ranking of Academic Subjects 2019
³ QILT Graduates Outcomes Survey 2017-2019
CHEZARNE CULTIVATES CHANGE

For Chezarne, undertaking a Bachelor of Development Studies majoring in environmental sustainability has meant a better understanding of people and their power to create change. Chezarne is passionate about food distribution and restructuring agricultural processes. By normalising alternate ways of production and consumption, Chezarne is already making positive changes from a grassroots level. She also volunteers with many community-led initiatives including Feedback Organic Recovery: Urban Farming. The organisation works to reduce food waste in local restaurants by converting it to compost for use on an urban farm. The farm then ultimately provides organic produce back to the community.

Chezarne
Bachelor of Development Studies
**WHAT YOU WILL STUDY**

Choose from one of the following majors:
- Cultures and Citizenship
- Environmental Sustainability
- Globalisation and Economic Development
- Urban and Regional Development

**PRACTICAL EXPERIENCE**

This degree places a strong focus on both field trips and work placement. Your fieldwork, in places like the historically significant and sacred Aboriginal Baiame Cave in the Upper Hunter, will give you the chance to develop research skills by interpreting the local environment. You can choose to develop your expertise in community development with a 12-week work placement as part of your degree. The opportunity for a global experience is also available with international work placement in countries such as Ecuador, the Philippines, Singapore, India, Japan, China, Malaysia, South Africa or Sweden.

**CAREER OPPORTUNITIES**

The Bachelor of Development Studies will prepare you with a range of skills and knowledge needed to help you on your career path. Some typical roles include:
- Aboriginal Cultural Educational Officer
- Aid Worker
- Community Development Worker
- Multicultural Community Liaison Officer
- Urban Planner
- Youth Worker

**COMBINE THIS DEGREE WITH**

- Bachelor of Business
- Bachelor of Global Indigenous Studies
- Bachelor of Laws (Honours)
- Bachelor of Social Science

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**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
- Linguistics
- Politics and International Relations
- Psychology Studies
- Sociology and Anthropology

**PRACTICAL EXPERIENCE**

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

**CAREER OPPORTUNITIES**

Our graduates enjoy great job prospects with 86% finding work upon completion of their studies. Whatever your preferred path, you will graduate with work-ready skills for a career such as:
- Aboriginal Cultural Educational Officer
- Case Manager/Worker
- Corrections Officer
- Demographer
- Foreign Affairs and Trade Officer
- Health Promotion Officer
- Historian
- Linguist
- Police Officer
- Social Scientist
- Tourist Information Officer

**COMBINE THIS DEGREE WITH**

- Bachelor of Development Studies
- Bachelor of Laws (Honours)
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
- Sociology
- Law for Social Work
- Psychology
- Social Policy and Planning
- Social Work Ethics

PRACTICAL EXPERIENCE

Your work readiness will be strengthened by industry experience throughout your program of study including:
- A minimum of 1,000 hours of supervised field education placements
- Opportunities for collaborative cross-disciplinary learning and community engagement such as the Law on the Beach clinic
- Industry-engaged simulation learning, project-based and research with industry partners

Students must meet all the Social Work placement requirements including a National Criminal Record Check, NSW Working with Children clearance and meet all the NSW Health Verification requirements. For more information visit the University of Newcastle website.

CAREER OPPORTUNITIES

Social work offers a diverse career pathway with graduates of this degree enjoying high rates of success in securing employment. In Australia, social workers practice in a number of fields including:
- Aged care
- Child protection
- Community development
- Disability
- Education
- Family and relationship counselling
- Health
- Income support and housing
- Mental health and substance use
- Refugees and asylum seekers
- Social policy

PROFESSIONAL RECOGNITION

Accredited by the Australian Association of Social Workers (AASW).
COMPUTING, MATHS AND TECHNOLOGY

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

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

**TOP 250**

in the world for Mathematics¹

**86.6%**

of Computing and Information Systems graduates found employment within four months²

**ERA 5**

rated well above world standard for Applied Mathematics and Statistics³

**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)

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1. QS World University Rankings by Subject 2019
2. QILT Graduates Outcomes Survey 2017-2019
3. Excellence in Research Australia 2018
Bachelor of Information Technology and Bachelor of Business student Jamie is passionate about diversity, inclusion and making a big impact. As a student mentor, she’s focusing on guiding students through user experience and human-centric methodologies when developing STEM-based solutions, and inspiring them to explore interests in these industries early on. Looking to the future, Jamie sees business and technology as a great tool to empower young people. One of her aspirations is to encourage people to learn more about the environment and how it affects our health. She plans to make this happen through developing programs and collaborating with organisations who are making a positive impact to the ecosystem.

Jamie
Bachelor of Information Technology/
Bachelor of Business
WHAT YOU WILL STUDY
Choose to specialise in one of the following majors:
• Data Science
• Computer Systems and Robotics
• Software Development
• Cyber Security

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

CAREER OPPORTUNITIES
Computer science is a high-growth industry with a myriad of career opportunities. Jobs exist all over the world in almost every industry, from IT to business, manufacturing, defence and many more. Some typical positions include:
• Application Development Manager
• Business Intelligence Director
• Computer Software Program Manager
• Cyber Security Advisor
• Data Scientist
• Games Developer
• Security Architect
• Software Architect

PROFESSIONAL RECOGNITION
Accredited by the Australian Computer Society.

COMBINE THIS DEGREE WITH
• Bachelor of Computer Systems Engineering (Honours)
• Bachelor of Mathematics
WHAT YOU WILL STUDY

You will develop skills in:
• web technologies
• programming
• databases
• management
• computer-human interaction
• systems analysis and design
• business analysis

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

PRACTICAL EXPERIENCE

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

CAREER OPPORTUNITIES

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

Some typical positions include:
• Games Designer/Animator
• Infrastructure Business Analyst
• Mobile App Designer

PROFESSIONAL RECOGNITION

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

COMBINE THIS DEGREE WITH

• Bachelor of Business
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
- Studies in Mathematics and Statistics

PRACTICAL EXPERIENCE

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

CAREER OPPORTUNITIES

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

Some typical roles are:

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

PROFESSIONAL RECOGNITION

Students may join the Australian Mathematical Society (AustMS) as student members before they graduate. Graduates with a Statistics major are eligible for Graduate Accreditation on becoming a member of the Statistical Society of Australia.
Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science
Combine computer systems and computer science and become a well-rounded computing professional. It could lead to opportunities in fields such as artificial intelligence, robotics, computer graphics, digital forensics, bioinformatics, web development and data security.

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

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

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

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Mathematics
Learn a variety of engineering concepts and practices, and enhance your technical skills with advanced maths courses, opening up broader career opportunities.

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

Bachelor of Mathematics/Bachelor of 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.
EDUCATION

A great teacher can change lives and truly impact the communities in which they live. Through our education degrees, you’ll learn more than just how to teach – you’ll gain the skills needed to empower future generations and inspire young minds. A career in education is rewarding and diverse. And with access to the latest technologies including TeachLivE simulated classrooms, and hands-on practical experience, you’ll graduate with globally-transferable skills and qualifications.

newcastle.edu.au/study/education

DEGREE OPTIONS
- Bachelor of Education (Early Childhood and Primary)
- Bachelor of Education (Primary)
- Bachelor of Education (Secondary)

ALSO CONSIDER
- Diploma in Languages

TOP 100
in the world for Education¹

95.2%
of Education graduates found employment within four months²

$65,608
average starting salary for Education graduates in NSW³

¹ QS World University Rankings by Subject 2019
² QILT Graduates Outcomes Survey 2017-2019
³ Teach NSW 2018
MADDISON UNCOVERS POTENTIAL

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), 2019
BACHELOR OF EDUCATION (EARLY CHILDHOOD AND PRIMARY)

2020 SELECTION RANK
62.00 | Median 70.33

DURATION
4 yrs FT / 10 yrs PT

UAC CODE
484750
484760

LOCATION
Newcastle – Callaghan
Central Coast – Ourimbah

ASSUMED KNOWLEDGE
English (Standard) or English (Advanced) and Mathematics

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 with two qualifications to work with children in:
- Preschool and early childhood (birth – 5 years)
- Primary School (Kindergarten – Year 6)

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

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

Key areas of study include:
- psychology of learning and teaching
- children’s learning and growth across the span of birth to 12 years
- families and society
- programming and planning for children aged 0-5 years

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

You can also take advantage of:
- Ed Outreach – experience-based learning in community experiences from your first year of study
- Teach Outreach – a volunteer placement program

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

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects with 93.3% securing jobs upon completion of their degree.

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

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

BACHELOR OF EDUCATION (PRIMARY)

2020 SELECTION RANK
62.00 | Median 71.98

DURATION
4 yrs FT / 10 yrs PT

UAC CODE
484800
484810

LOCATION
Newcastle – Callaghan
Central Coast – Ourimbah

ASSUMED KNOWLEDGE
English (Standard) or English (Advanced) and Mathematics

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 critical industries like maths and science. Being a primary teacher goes well beyond teaching maths and ABCs – you’ll play a critical role in the growth and transition of children into young adults. Use your skills and knowledge to nurture strong and confident people capable of impacting the world.

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

Key study areas include:
- foundations of primary education
- how to teach K-6 curriculum
- language and literacy development
- psychological development

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

PRACTICAL EXPERIENCE
You will complete three professional experience placements totalling at least 50 days.

You can also take advantage of:
- Ed Outreach – experience-based learning in community experiences from your first year of study
- Teach Outreach – a volunteer placement program

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

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects with 94.7% securing jobs upon completion of their degree. Our graduates are qualified specialists who work in classrooms and various education settings. They are also industry leaders, researchers and professionals in a range of related industries in Australia and around the world.

Careers may include:
- Community Educator
- Curriculum Developer
- Education Policy Analyst
- Educational Materials Developer
- Primary School Teacher
- Special Education Teacher

PROFESSIONAL RECOGNITION
Accredited by the NSW Education Standards Authority (NESA).
BACHELOR OF EDUCATION (SECONDARY)

2020 SELECTION RANK
62.00 | Median 73.13
DURATION
4 yrs FT / 10 yrs PT

UAC CODE 484860
484870
LOCATION Newcastle - Callaghan
Central Coast – Ourimbah

ASSUMED KNOWLEDGE
English (Standard) or English (Advanced) and Mathematics

RECOMMENDED STUDIES
English, Mathematics Extension 1 (for Mathematics major) and study in the area of intended teaching specialisation

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 will be at the forefront, shaping the minds of tomorrow’s leaders.

WHAT YOU WILL STUDY
Benefit from an integrated study approach to become a skilled, knowledgeable and innovative secondary school teacher, as well as a specialist in your chosen areas of expertise. You will choose from at least one of the following teaching areas:

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

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

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

- **Science**
  - From Biology and Chemistry to Earth and Environmental Science and Physics, you’ll combine your passion for education and science to become a versatile scientist and innovative secondary school teacher with in-demand skills.

- **Technology**
  - Explore and develop your passion for current and emerging technologies and nurture students’ abilities to think innovatively and use technological applications in real-world situations. Learn how to design, create and evaluate products and systems in areas such as Design Technologies, Computing Technologies, Industrial Technology, Engineering, Food Technology, Industrial Technology Graphics and Multimedia, Textiles and Design.

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

- **Visual Arts**
  - Those who teach visual arts seek to develop the knowledge and skills of their students – enabling them to become confident, creative individuals, artists, designers and cultural participants.

PRACTICAL EXPERIENCE
You will complete three professional experience placements totalling at least 90 days. In some disciplines, additional Work-Integrated Learning (WIL) courses are provided.
You can also take advantage of:

- **Ed Outreach** – experience-based learning in community experiences from your first year of study
- **Teach Outreach** – a volunteer placement program

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

CAREER OPPORTUNITIES
Our graduates are well prepared and enjoy great employment prospects across our teaching majors. The following list provides some typical examples of jobs available to graduates:

- **Community Educator**
- **Curriculum Developer**
- **Curriculum Evaluator**
- **Education Consultant**
- **Education Policy Analyst**
- **Education Publication Writer or Editor**
- **Educational Administrator**
- **Educational Materials Developer**
- **Educational Researcher**
- **English as a Second Language Teacher**
- **English Teacher**
- **High School Teacher**
- **Health and Fitness Trainer**
- **High School Teacher**
- **Special Education Teacher**
- **TeachLivE** – an online platform that provides opportunities to network and collaborate
- **NuTeach** – an online platform that provides opportunities to network and collaborate

PROFESSIONAL RECOGNITION
Accredited by the NSW Education Standards Authority (NESA).

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

The role of an engineer is ever-changing. From building complex computer systems and influencing the infrastructure we use every day, to finding new ways to harness energy or even designing prosthetic limbs to help amputees – engineers play a critical role in overcoming the challenges our world faces. Challenges like food and water security, climate change, data protection and the increasing impact growing populations have on society. As a global leader in engineering higher education, including being ranked No. 8 in the world for Automation and Control Engineering, this is the place to develop world-changing solutions.

newcastle.edu.au/study/engineering

No. 1 IN NSW
for educational experience and teaching quality¹

No. 8 in the world for Automation and Control Engineering²

GE3
One of only three Australian member institutions of the Ge3 - Global Engineering Education Exchange program

DEGREE OPTIONS
Bachelor of Aerospace Systems Engineering (Honours)
Bachelor of Chemical Engineering (Honours)
Bachelor of Civil Engineering (Honours)
Bachelor of Electrical and Electronic Engineering (Honours)
Bachelor of Engineering (Mining Transfer program)
Bachelor of Environmental Engineering (Honours)
Bachelor of Mechanical Engineering (Honours)
Bachelor of Mechatronics Engineering (Honours)
Bachelor of Medical Engineering (Honours)
Bachelor of Renewable Energy Engineering (Honours)
Bachelor of Software Engineering (Honours)
Bachelor of Surveying (Honours)

ALSO CONSIDER
Bachelor of Computer Systems Engineering (Honours)
Bachelor of Technology (Renewable Energy Systems)

¹ The Good Universities Guide 2020
² ShanghaiRanking's Global Ranking of Academic Subjects 2019
SAM IMPACTS INDUSTRIES AND INDIVIDUALS

In his work, Bachelor of Electrical and Electronic Engineering (Honours) student Sam combines empathy and empowerment with engineering. Recently named a 2020 Susan and Isaac Wakil John Monash Scholar, Sam’s been recognised for the outstanding work he’s contributing to his chosen field. 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. For his final year project, he’s using 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)
Aerospace systems engineering involves a systems approach to the design of technology and operation and the implementation of high-tech devices for the aeronautical and defence industries. A key challenge for the development of aerospace systems is the need to be as lightweight as possible, yet highly reliable. Aerospace systems engineers need to understand and control the response of aerospace vehicles and manage complex interactions between sensors, controllers, actuators and other aircraft subsystems. Aerospace systems engineering principles deal with the complementary design of aircraft subsystems to ensure they work in unison, without conflict and with the high levels of reliability required in aerospace operations.

WHAT YOU WILL STUDY
The University of Newcastle works closely with aerospace systems industry leaders like Boeing, Lockheed Martin, BAE Systems and defence to provide students with authentic real-world experiences and project work. Become job-ready through four professional practice courses and diversify your skills with elective pathway courses. Build critical technical engineering skills in:

- aircraft operations and performance
- principles of flight
- aircraft systems and avionics
- propulsion 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 91% securing jobs within four months of completing their degree. Some typical positions include:

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

PROFESSIONAL RECOGNITION
This program is seeking provisional accreditation with Engineers Australia.

BACHELOR OF
AEROSPACE SYSTEMS
ENGINEERING (HONOURS)

2020 SELECTION RANK
80.25 | Median 85.95
DURATION
4 yrs FT / 10 yrs PT

UAC CODE
482707
LOCATION
Newcastle – Callaghan

ASSUMED
KNOWLEDGE
Mathematics (Band 5 or above) and at least one science-related subject (Physics or Chemistry preferred)

RECOMMENDED
STUDIES
Mathematics Extension 1

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.

WHAT YOU WILL STUDY
Become job-ready through four 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 92% securing jobs within four months of completing their degree. Some typical positions include:

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

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

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

COMBINE THIS DEGREE WITH
- Bachelor of Business
- Bachelor of Mathematics
- Bachelor of Science

BACHELOR OF
CHEMICAL ENGINEERING
(HONOURS)

2020 SELECTION RANK
80.15 | Median 90.50
DURATION
4 yrs FT / 10 yrs PT

UAC CODE
482600
LOCATION
Newcastle – Callaghan

ASSUMED
KNOWLEDGE
Mathematics (Band 5 or above) and at least one science-related subject (Physics or Chemistry preferred)

RECOMMENDED
STUDIES
Mathematics Extension 1

4 yrs FT / 10 yrs PT
**Civil Engineering (Honours)**

2020 SELECTION RANK
80.35 | Median 87.95

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**UAC CODE**
482610

**LOCATION**
Newcastle – Callaghan

**ASSUMED KNOWLEDGE**
- Mathematics (Band 5 or above)
- At least one science-related subject (Physics or Chemistry preferred)

**RECOMMENDED STUDIES**
- Mathematics Extension 1 (Band E1 or above)

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

**WHAT YOU WILL STUDY**
All of our Civil Engineering students complete courses in the three core civil specialisations of structural, water and geotechnical engineering, making them highly employable upon graduation. Become job-ready through four professional practice courses and diversify your skills with four elective pathways. Build critical, technical engineering skills in:
- Structural engineering
- Water engineering
- Geomechanics

**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 92% securing jobs within four months of completing their degree. Civil engineers work for construction companies, consulting firms, project management companies, transport companies and governments. Some typical positions include:
- Civil Engineering Designer
- Geotechnical Engineer
- Stormwater Engineer
- Urban Development Engineer

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

**COMBINE THIS DEGREE WITH**
- Bachelor of Business
- Bachelor of Environmental Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Surveying (Honours)

**Electrical and Electronic Engineering (Honours)**

2020 SELECTION RANK
83.30 | Median 92.95

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**UAC CODE**
482640

**LOCATION**
Newcastle – Callaghan

**ASSUMED KNOWLEDGE**
- Mathematics (Band 5 or above)
- At least one science-related subject (Physics or Chemistry preferred)

**RECOMMENDED STUDIES**
- Mathematics Extension 1

Electrical and electronic engineers design and build systems and machines that generate, transmit, measure, control and use electrical energy essential to modern life. With a Bachelor of Electrical and Electronic Engineering (Honours), you could work with power systems and renewable energy technologies, industrial electronics, robotics, control systems, telecommunications or embedded systems. You might develop precision agriculture technology to increase food production efficiency and even build smart grid systems to help manage alternative energy resources. Or, follow in the footsteps of our team of researchers and develop life-changing medical technology – like the artificial pancreas.

**WHAT YOU WILL STUDY**
Tackle real-world challenges through professional practice courses and diversify your skills through four elective pathways. You will build critical technical and engineering skills in:
- Machines, power systems and renewables
- Communications systems and internet of things
- Electrical and electronic engineering design
- Embedded computing and procedural programming
- Systems control and processing

**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 92% securing jobs within four months of completing their degree. Some typical positions include:
- Automatic Systems Designer
- Biomedical Instrumentation Designer
- Electrical Design Engineer
- Embedded System Designer
- Renewable Energy Systems Engineer
- Robotics Engineer
- Telecommunications Equipment Designer

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

**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)
BACHELOR OF ENGINEERING (MINING TRANSFER PROGRAM)

WHAT YOU WILL STUDY
The first two years of the program will focus on:
• mathematics
• structural and environmental mechanics
• geomechanics
Towards the end of second year, you may apply through UAC to complete your degree at UNSW or UOW. If you don’t wish to transfer, your other option is to move into the University of Newcastle’s Bachelor of Civil Engineering (Honours) and receive full credit for courses you have already completed.

PRACTICAL EXPERIENCE
Your practical experience will be in the final two years of study, to be undertaken at your chosen transfer university.

CAREER OPPORTUNITIES
Large and often multinational companies dominate the mining sector. Our graduates enjoy great employment prospects with 92% securing jobs within four months of graduating.
Some typical positions include:
• Development Superintendent
• Mining Engineer
• Mining Superintendent

PROFESSIONAL RECOGNITION
If you complete your degree in Mining Engineering at UNSW or UOW, you will qualify for professional recognition through Engineers Australia — enabling you to work as a professional engineer almost anywhere in the world.

BACHELOR OF ENVIRONMENTAL ENGINEERING (HONOURS)

WHAT YOU WILL STUDY
Become job-ready through professional practice courses and diversify your skills through four elective pathways. Build critical technical and engineering skills in:
• environmental chemistry
• environmental legislation and planning
• fluid mechanics

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

CAREER OPPORTUNITIES
Environmental engineering is flexible and diverse. You may prefer hands-on fieldwork, design and development, or a leadership role managing people and projects. Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree.
Some typical positions include:
• Environmental Impact Consultant
• Environmental Remediation Technician
• Sustainable Fisheries Consultant

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

COMBINE THIS DEGREE WITH
• Bachelor of Civil Engineering (Honours)
• Bachelor of Science (Environmental Remediation major only)
BACHELOR OF
MECHANICAL ENGINEERING (HONOURS)

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**UAC CODE** 482670
**LOCATION** Newcastle – Callaghan

**ASSUMED KNOWLEDGE** Mathematics (Band 5 or above) and at least one science-related subject (Physics or Chemistry preferred)

**RECOMMENDED STUDIES** Mathematics Extension 1

Mechanical engineers design, manufacture and optimise specialist machines and processes. They solve important problems using robotics, new advanced materials, the fundamental laws of energy generation and transmission and the computer control of physical systems – from nano to megatonne scale. They work on everything from power plants, to air conditioners, aircraft engines and race cars. With a Bachelor of Mechanical Engineering (Honours), you could design self-driving farm machinery for ultra-efficient food production, or build revolutionary biomechanical solutions for people with disabilities.

**WHAT YOU WILL STUDY**
Mechanical engineering is the broadest of all engineering disciplines. You will gain essential workplace skills with professional practice courses and diversify your skills through four elective pathway courses. Build critical technical and engineering skills in:
- mathematics, physics, design and mechanics
- advanced materials and manufacturing
- bulk solids handling
- fluid dynamics
- thermodynamics
- computer-aided engineering

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

**CAREER OPPORTUNITIES**
Almost all industries need mechanical engineers and 91% of graduates find work within four months of completing this degree. They work in medical, transport, aerospace, electronics, mining, renewable energy, robotics, automation and advanced manufacturing industries. Some typical positions include:
- Engineering Project Manager
- Mechanical Technology Engineer
- Operating Plant Manager

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

**COMBINE THIS DEGREE WITH**
- Bachelor of Business
- Bachelor of Mathematics
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Science

BACHELOR OF
MECHATRONICS ENGINEERING (HONOURS)

<table>
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<th>2020 SELECTION RANK</th>
<th>DURATION</th>
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<td>82.90</td>
<td>Median 90.70</td>
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**UAC CODE** 4824680
**LOCATION** Newcastle – Callaghan

**ASSUMED KNOWLEDGE** Mathematics (Band 5 or above) and at least one science-related subject (Physics or Chemistry preferred)

**RECOMMENDED STUDIES** Mathematics Extension 1

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

**WHAT YOU WILL STUDY**
Gain essential workplace skills with professional practice courses and diversify your skills through four elective pathway courses. Build critical technical and engineering skills in:
- computer-integrated manufacturing
- electronic design
- mechatronics design
- microprocessor systems
- modelling and simulation
- sensors and actuators

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

**CAREER OPPORTUNITIES**
Mechatronic engineers play an essential role in a growing number of fields. Our graduates enjoy great job prospects with 92% securing work within four months of completing their degree. They might take up careers in the robotics, aerospace, chemical, defence, automotive, marine, manufacturing, mining or finance industries. Some typical positions include:
- Avionics Engineer
- Robotics Designer
- Industrial Automation Engineer
- Smart Infrastructure Designer

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

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

**COMBINE THIS DEGREE WITH**
- Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Science (Physics)
WHAT YOU WILL STUDY
Build critical medical and engineering skills through courses in:

• human pathophysiology
• analog and digital communications
• pharmacology
• programming and computing
• neurobiology
• engineering design
• medical devices

Choose one of the following majors:

• Medical Biomechanics
• Medical Computing
• Medical Signal Analysis

You’ll also be able to diversify your skills with an elective pathway – a cluster of courses that can be used to:

• deepen your technical competence in your engineering/health field
• broaden your expertise in another area of engineering
• specialise your skills in areas outside engineering, such as business or communications
• study overseas at one of our many partner institutions

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

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

Depending on your area of specialisation, you could work with:

• app-based health detection and diagnostic tools
• artificial organs
• biomechanical devices
• digital medical records
• electrical and computing systems for radiotherapy, respiration or dialysis
• nanotechnology drugs and tests
• prosthetic limbs
• surgical equipment

PROFESSIONAL RECOGNITION
This program has been granted provisional accreditation through Engineers Australia.
Software engineering is behind much of the everyday technology we take for granted – from our tablet devices, computer software and mobile phones through to digital televisions, computer games and online banking. With the Bachelor of Software Engineering (Honours) you might develop software for digital forensics analysis to help fight crime, or work in defence and combat cyber attacks. You could design wearable health management devices or write the software that powers e-commerce websites.

WHAT YOU WILL STUDY
Become job-ready through professional practice courses and diversify your skills with four elective pathways. Build critical technical and engineering skills in:
- database management systems
- enterprise software
- computer architecture
- formal languages and automata
- programming languages and paradigms
- software architecture and quality management
- software development

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

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree. Software engineering is flexible and diverse. Software engineers play a vital role in a wide range of industries such as defence and security, aerospace, computer games and entertainment as well as government and commerce.

PROFESSIONAL RECOGNITION
Professional recognition through Engineers Australia and the Australian Computer Society means graduates will be qualified as professional engineers who can work almost anywhere in the world.

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 preparation for building of a new tunnel, or mapping of flood areas for disaster preparedness. Your work as a surveyor could see you involved in the prediction of earthquakes and mapping of the ocean floor.

WHAT YOU WILL STUDY
Become job-ready through professional practice courses and diversify your skills with four elective pathway courses. Build critical technical and surveying skills in:
- geodesy
- photogrammetry and laser scanning
- industrial and cadastral surveying
- land and mining surveying
- satellite positioning
- spatial data systems
- modern surveying techniques and computations

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

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 91% finding work within four months of completing their degree. Surveyors are involved in the planning of almost all development and mapping of the land and earth. A shortage of surveyors in Australia means employment will be easy to find.

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

COMBINE THIS DEGREE WITH
- Bachelor of Business
- Bachelor of Civil Engineering (Honours)
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, pharmacy, 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 major only)
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 Electrical and Electronic 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 Mechanical Engineering (Honours)/Bachelor of Science (Physics major only)
Learn a variety of engineering concepts and practices, and enhance your technical skills with advanced maths courses, opening up broader career opportunities.

Bachelor of Mechatronics Engineering (Honours)/Bachelor of Science (Physics major only)
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
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 Surveying (Honours)/Bachelor of Mechanical Engineering (Honours)/Bachelor of Science
Complement your strong understanding of business affairs with the ability to commercialise engineering innovations with this unique package of capabilities.

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

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

DEGREE OPTIONS

- Bachelor of Biomedical Science
- Bachelor of Exercise and Sport Science
- Bachelor of 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)

1 Shanghai Ranking’s Global Ranking of Sport Science Schools and Departments 2018
2 School of Medicine and Public Health Indigenous Health Unit completions as of 2018
3 QS World University Rankings by Subject 2019
MATT JUMPS IN FEET FIRST

Moving from his hometown of Gunnedah to study a Bachelor of Podiatry, Matt saw early on how his skills could benefit the entire community. Matt is passionate about rural health and believes health services should be accessible to everyone – something that he continues to advocate for. During his studies, Matt was able to further his passion for supporting rural communities – completing a placement in Dubbo, participating in a number of outreach programs and using telehealth technology as a tool for providing care to rural patients. With a goal of one day opening his own clinic, Matt plans to provide a variety of health services to support the local people in his town.

Matt
Bachelor of Podiatry, 2019
**WHAT YOU WILL STUDY**
Opportunities to study a wide range of courses are available through face-to-face and online learning.
Choose from one of the following majors:
- Medical/Health Professional
- 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 can complete further studies in health and medicine, or work in a variety of industries including allied health, pharmaceutical, biotechnology industries, research or academia.
Some typical roles include:
- Biotechnologist
- Clinical Research Coordinator
- Geneticist
- Pharmaceutical Scientist
- Reproductive Medicine/IVF Specialist
- Science Educator

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**WHAT YOU WILL STUDY**
When you study the Bachelor of Biomedical Science, you will develop the knowledge and skills to contribute to 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. You might contribute to science and innovation in education, industry or commerce using groundbreaking medical innovations to solve real-world problems. Or maybe you will build a solid foundation for your career as a health practitioner with enhanced research capability.

**PRACTICAL EXPERIENCE**
The western world is facing a new wave of health problems and chronic diseases due to inactivity and poor lifestyle habits. Contrary to this, elite sports are more popular than ever. Exercise and sport science is an inspiring and rapidly evolving field with a variety of career opportunities. 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**
Our graduates have great employment prospects with 94% securing employment within four months of finishing their degree. A wide range of career opportunities are available with some typical roles including:
- Exercise Scientist
- Exercise Rehabilitation/Injury Management Advisor
- Player Development Manager
- Research Scientist
- Sports Administrator
- Sports Development Officer

**PROFESSIONAL RECOGNITION**
Graduates are eligible for accreditation with Exercise and Sport Science Australia (ESSA). Graduates may also complete an Exercise Science Sequence to qualify as an Exercise Scientist for ESSA.
WHAT YOU WILL STUDY
Graduates develop a strong foundation of the principles underlying the sciences of food technology and human nutrition. This includes basic sciences, chemistry and biology of nutrients, and the attributes of foods including food commodities and functional foods.

You will study topics including:

- biomedical science
- chemistry
- food product development
- macronutrients
- micronutrients
- nutrition in health and disease

PRACTICAL EXPERIENCE
Offered from our Central Coast campus (Ourimbah), you will train in the University's test kitchen. 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 experience, specialist knowledge and skills you learn will prepare you for a successful career in the food science, health and nutrition industries. Some typical roles after you graduate include:

- Catering Manager
- Flavourist
- Food Scientist, Technologist or Chemist
- Health Promotion Officer
- Nutrionist or Dietician
- Quality Assurance Technician

COMBINE THIS DEGREE WITH
- Bachelor of Business

BACHELOR OF FOOD SCIENCE AND HUMAN NUTRITION

2020 SELECTION RANK 62.00 | Median 69.55
DURATION 3 yrs FT / 8 yrs PT

UAC CODE 482900
LOCATION Central Coast – Ourimbah
RECOMMENDED STUDIES Chemistry, Biology and Mathematics

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.

WHAT YOU WILL STUDY
This degree has a strong foundation in physical, biomedical and behavioural sciences. You will build essential clinical reasoning and patient management skills using our latest technologies and facilities, including 2D, 3D and 4D imaging technology.

Areas of study include:

- anatomy and physiology
- clinical education
- instrumentation
- physics
- radiation protection
- statistics and research methodology

PRACTICAL EXPERIENCE
All students will undertake up to 42 weeks of professional practice over the duration of the program, starting in first year. Placements will be in metropolitan and regional settings along with a mandatory rural placement as part of practical experience. You will also have access to the latest diagnostic radiography technologies on campus.

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects, with 96% finding work soon after finishing their studies. Some typical roles include:

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

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

BACHELOR OF MEDICAL RADIATION SCIENCE (HONOURS) (DIAGNOSTIC RADIOGRAPHY)

2020 SELECTION RANK 83.10 | Median 93.40
DURATION 4 yrs FT

UAC CODE 483355
LOCATION Newcastle – Callaghan
RECOMMENDED STUDIES English (Standard) or English (Advanced) and Mathematics or Physics

Diagnostic radiography is an important first step to diagnosing, treating and managing injuries and disease. Through the Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography), you will learn how to use sophisticated technology to create medical images and analyse and manage patient health. Diagnostic radiographers work in a variety of settings including public and private settings in metropolitan, regional and rural areas. The medical images you produce will allow accurate diagnosis and play an important role in improving patient outcomes in both acute and chronic presentations.
WHAT YOU WILL STUDY
This degree equips you with specialised scientific knowledge and gives you practical medical radiation experience.
Areas of study include:
• anatomy
• molecular imaging
• nuclear medicine theory
• patient care
• nuclear medicine instrumentation and radiopharmacy
• statistics and research methodology

PRACTICAL EXPERIENCE
You will complete 42 weeks of clinical placement, supervised and mentored by qualified nuclear medicine scientists in both public and private centres, locally or across Australia. You will have access to world-class facilities and technology, such as our $1.5 million on-campus radiopharmacy laboratory.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 88% 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 roles include:
• Nuclear Medicine Technologist
• Nuclear Medicine Technician

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

PRACTICAL EXPERIENCE
You will complete 42 weeks of a mentored professional placement in metropolitan, regional and rural settings. You will also have access to world-class facilities such as our 3D radiation therapy simulation laboratory, the first of its kind in Australia.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects, with 93% finding work within four months of completing their degree. Some typical roles include:
• Chief Radiation Therapist
• Dosimetrist
• PET Technologist
• Medical Physicist

PROFESSIONAL RECOGNITION
Our Radiation Therapy graduates are eligible to apply for registration with the Medical Radiation Practice Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).
### BACHELOR OF MEDICAL SCIENCE AND DOCTOR OF MEDICINE (JOINT MEDICAL PROGRAM)

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**RECOMMENDED STUDIES**
- English (Standard) or English (Advanced)

**ENTRY REQUIREMENTS**
- There are additional entry requirements for this degree. See website for more information.

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

### WHAT YOU WILL STUDY

The five-year Joint Medical Program incorporates a staged transition from campus-based learning to clinical placements in a range of healthcare settings.

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

### PRACTICAL EXPERIENCE

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

### CAREER OPPORTUNITIES

Our graduates enjoy great job prospects. Following completion of the intern year, a wide range of roles are possible with further postgraduate training. Typical graduate roles include:
- Diagnostic specialists, e.g. Radiologists, Pathologists
- Emergency Doctors
- General Practitioners (GPs)
- Medical Administrators
- Medical Researchers
- Medical Specialists, e.g. Obstetricians and Gynaecologists, Paediatricians, Psychiatrists, Public Health Physicians, Surgeons

### PROFESSIONAL RECOGNITION

On successful completion of the Joint Medical Program, graduates are eligible for provisional registration with the Medical Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA). A period of accredited intern training is then required before general registration as a medical practitioner can be approved.

### BACHELOR OF MIDWIFERY

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**ASSUMED KNOWLEDGE**
- English (Band 4 or higher), Mathematics (General) plus Biology or Chemistry

**ENTRY REQUIREMENTS**
- There are additional entry requirements for this degree. See website for more information.

As a midwife, you will be focused on caring for women, babies and their families during pregnancy, labour, birth and the early infancy period. You will 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 are exposed to real patient cases and mentored by working clinicians.

### WHAT YOU WILL STUDY

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

### PRACTICAL EXPERIENCE

You have the opportunity to complete a minimum of 1,400 hours of clinical experience in two formats:
- Clinical placement in a hospital
  - A minimum of 880 hours in an allocated hospital and hands-on experience during the antenatal period, labour and birthing, and the postnatal period.
- Continuity of care relationships with childbearing women
  - A minimum of 10 relationship-based experiences as the on-call clinician for expectant mothers.

The remaining 320 hours will be spent in further continuity of care relationships or additional hospital experiences.

### CAREER OPPORTUNITIES

Our graduates enjoy great job prospects with 98% securing work within four months of completing their degree. Some typical roles include:
- Clinical Midwife Educator
- Clinical Midwife Specialist
- Registered Midwife

### PROFESSIONAL RECOGNITION

Graduates are eligible to apply for registration to practice as a midwife with the Nursing and Midwifery Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).
BACHELOR OF NURSING

DURATION
3 yrs FT / 6 yrs PT

LOCATION
Newcastle – Callaghan
Central Coast – Ourimbah

2020 SELECTION RANK
Newcastle – Callaghan: 76.00 | Median 85.30
Central Coast – Ourimbah: 71.40 | Median 75.40

UAC CODE
483600
483610

RECOMMENDED STUDIES
English (Standard) or English (Advanced), Mathematics (General) plus Biology

As one of the most trusted professions, nurses make a real difference to the health and wellbeing of the community and are essential within any healthcare system or facility. Nurses work in fast-paced environments, providing quality health care to individuals, families and communities and are highly employable across Australia and around the world. Whichever direction you choose for your career as a registered nurse, when you study a Bachelor of Nursing, you can be sure that you will be making an important and meaningful contribution to society.

WHAT YOU WILL STUDY
The Bachelor of Nursing mixes face-to-face and online learning with plenty of hands-on nursing experience in simulated learning laboratories and professional 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, secondary and tertiary nursing
- aged care

PRACTICAL EXPERIENCE
You will complete 800 hours of compulsory clinical experience. Clinical placement is conducted in a variety of settings including:

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

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

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 94% securing work within four months of completing their studies. Registered Nurses can establish careers in diverse areas such as aged care, mental health, community health, critical care, intensive care, oncology, operating theatres and paediatrics. Career progression roles for a Registered Nurse include:

- Clinical Nurse Consultant
- Clinical Nurse Specialist
- Nurse Educator
- Nurse Manager
- Nurse Practitioner
- Nurse Researcher

PROFESSIONAL RECOGNITION
Nursing graduates are eligible to apply for registration with the Nursing and Midwifery Board of Australia, under the Australian Health Practitioner Regulation Agency (AHPRA).

BACHELOR OF NUTRITION AND DIETETICS (HONOURS)

UAC CODE
483650

LOCATION
Newcastle – Callaghan

RECOMMENDED STUDIES
Chemistry

2020 SELECTION RANK
73.70 | Median 87.30

DURATION
4 yrs FT

WHAT YOU WILL STUDY
This degree combines theoretical and scientific knowledge with practical learning to ensure you are well-prepared for a career in nutrition and dietetics. Your areas of study will include:

- basic and applied sciences
- social sciences
- medical nutrition therapy
- public health nutrition
- food service and management
- professional practice
- dietetic practice
- paediatric nutrition and dietetics
- statistics and research methodology

PRACTICAL EXPERIENCE
You will complete professional placements and obtain more than 800 hours of supervised professional practice in a variety of settings across NSW and interstate including hospitals, outpatient clinics and community health centres.

CAREER OPPORTUNITIES
The field of nutrition and dietetics is growing swiftly, providing our graduates with an array of interesting and rewarding career options, including:

- Diabetes Educator
- Dietitian
- Food Service Manager
- Health Administrator
- Health Promotion Officer
- Health Writer
- Nutritionist
- Sports Dietitian
- Researcher

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

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 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.
WHAT YOU WILL STUDY
You will gain theoretical knowledge in biomedical, behavioural and occupational sciences, and learn professional occupational therapy skills through case-based training and interactive teamwork activities.

Areas of study include:
- anatomy and physiology
- biomedical, behavioural, and occupational sciences and therapy
- mental health
- psychology
- sociology and community development
- statistics and research methodology

PRACTICAL EXPERIENCE
You will complete 1,000 hours of professional practice and be supervised by qualified occupational therapy practice educators. During your study, you will have access to interactive, technology-based learning facilities including our specially designed clinical skills laboratory, complete with a modified home and a virtual house.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 97% securing work within four months of completing their studies. Embark on a rewarding career as an occupational therapist, working closely with individuals to assess their unique situation, determine goals, and put together a plan for success.

Some typical roles include:
- Injury Management Advisor
- Occupational Therapist
- Rehabilitation Consultant

PROFESSIONAL RECOGNITION
Accredited by the Occupational Therapy Board of Australia (OTB) under the Australian Health Practitioner Regulation Agency (AHPRA).

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WHAT YOU WILL STUDY
Build your scientific knowledge and clinical skills to provide preventive and simple restorative treatments to individuals and communities. Your areas of study will include:

- clinical treatment for diverse communities
- dental therapy
- human bioscience and anatomy
- oral pathology
- periodontology

PRACTICAL EXPERIENCE
You will complete a minimum of 500 hours of supervised dental practice, initially in our on-campus oral health clinic and later in clinical placements. Clinical placements could include working in:

- childcare facilities
- residential aged care facilities
- community dental clinics
- specialist dental departments
- public hospital dental clinics
- private dental practices

CAREER OPPORTUNITIES
Our graduates have great job prospects with 97% securing work within four months of finishing their degree. With dual qualifications in dental hygiene and dental therapy, many University of Newcastle graduates are quickly employed.

Typical roles include:
- Dental Therapist
- Health Promotion Officer
- Industry Sales Representative
- Oral Health Academic
- Oral Health Therapist
- Public Health practitioner

PROFESSIONAL RECOGNITION
Accredited by the Australian Dental Council. Once you graduate, you will be eligible to apply for registration with the Australian Health Practitioner Regulation Agency (AHPRA).
WHAT YOU WILL STUDY
You will develop an extensive knowledge of the essential sciences, pharmacotherapeutics and pharmaceutical sciences that are required to practice as a pharmacist. In particular, you will study:

- core biomedical sciences, including anatomy and physiology
- dosage formulations
- chemistry
- drug design and discovery
- epidemiology
- pharmacotherapeutics
- pharmacy practice

PRACTICAL EXPERIENCE
You will undertake over 420 hours of clinical placement in a variety of settings both locally and nationally. This will include community and aged care facilities, hospitals, and rural pharmacies throughout the Hunter, Central Coast, Mid North Coast and the University’s Department of Rural Health sites.

CAREER OPPORTUNITIES
You will discover a range of options that you can choose to pursue in your pharmacy career. This includes everything from investigating drug design and discovery and formulation development, to pharmacy practice, personalised healthcare and health technologies assessment. Some typical roles are:

- Community Pharmacist
- Hospital Pharmacist
- Pharmaceutical Policy Officer
- Researcher
- 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) requirements. This degree is accredited by the Australian Pharmacy Council.

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 will study evidence-based physiotherapy clinical skills and develop capabilities in critical thinking, problem solving, communication and lifelong learning. Physiotherapy graduates work in various public and private settings including hospitals, rehabilitation and community centres, aged care, with sporting teams and in private practice. The Bachelor of Physiotherapy (Honours) integrates academic theory with extensive practical experience to produce graduates who are ready to meet the challenges of the changing healthcare system.

WHAT YOU WILL STUDY
You will gain professional physiotherapy skills underpinned by relevant biomedical and behavioural sciences. Your areas of study will include:

- advanced anatomy, physiology and pathophysiology
- clinical physiotherapy
- exercise science
- health promotion and public health
- statistics and research methodology

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

CAREER OPPORTUNITIES
Our graduates have great job prospects with 97% securing work within four months of finishing their degree. A physiotherapy qualification from the University of Newcastle will ensure you have the vital skills required to excel as a health professional. Our graduates are employed in public and private health care organisations, aged care, community and workplace settings, as well as with sporting teams and in private practice.

PROFESSIONAL RECOGNITION
This degree has full accreditation awarded by the Australian Physiotherapy Council. Graduates are eligible to apply for registration with the Physiotherapy Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA).
WHAT YOU WILL STUDY
You will discover how to identify and analyse complex health problems within podiatry practice and develop multidisciplinary solutions. Your course topics will include:
- anatomy
- physiology and biomechanics
- podiatric medicine

PRACTICAL EXPERIENCE
Podiatry students complete more than 1,000 hours of practical experience and work alongside experienced podiatrists. Our state-of-the-art teaching facilities include orthoses, clinical skills and research laboratories. We also have a fully equipped university-run clinic where students are given opportunities to learn and practise on real patients at Wyong Hospital.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 88% securing work within four months of finishing their degree. Typical roles include:
- General or specialised podiatry practice e.g. sports podiatry
- Podiatric Surgeon
- Health Promotion Officer
- Podiatric Medicine
- Physiology and Biomechanics

PROFESSIONAL RECOGNITION
After graduating, you will be eligible to apply for registration with the Podiatry Registration Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA). Accredited by the AHPRA Accreditation Committee.

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 managing sports injuries, 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.

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

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

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 87% securing work soon after graduating. Examples of roles that your degree could apply to include:
- Careers Counsellor
- Case Manager
- Case Worker
- Juvenile Justice Officer
- Mediator
- Practicing Psychologist

PROFESSIONAL RECOGNITION
This course is currently accredited by the Australian Psychology Accreditation Council and approved by the Psychology Board of Australia. Upon completion of an APAC accredited undergraduate degree, students who go on to complete either the Honours or postgraduate study in Psychology will be eligible for provisional registration as a psychologist with the Psychology Board of Australia. Please note that after completion of an APAC accredited undergraduate degree, a further minimum of three years education and training in psychology is required to register as a psychologist in Australia.
WHAT YOU WILL STUDY
Choose from eight interdisciplinary majors including:
• Health Promotion
• Global Health
• Social Marketing
• Social Justice and Health Inequity
• 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 will gain valuable practical experience, be able to build professional networks and graduate industry-ready. As part of the program’s Professional Pathways courses, you will undertake a series of ‘passion projects’ where you have the opportunity to undertake work experience, volunteer work, and explore the areas you’re most interested in. You will be supported by a network of peers, advisory teachers, expert mentors and community along the way.

CAREER OPPORTUNITIES
Graduates are employed in non-government organisations, primary care organisations, local and state government, Indigenous health and more. Typical roles include:
• Community Development Worker
• Community Educator
• Community Health Officer
• Environmental Health Officer
• Epidemiologist
• Health Administrator

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.

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 studies to complete a major transdisciplinary capstone project throughout your third year.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 87% securing work soon after graduating. Examples of roles that your degree could apply to include:
• Careers Counsellor
• Case Manager
• Case Worker
• Juvenile Justice Officer

PROFESSIONAL RECOGNITION
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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, you’ll develop valuable connections with industry and other professionals to improve employment outcomes when you graduate. This fascinating and evolving field will prepare you to work in a broad range of industries where you can positively impact the lives of others.

WHAT YOU WILL STUDY
Choose from eight interdisciplinary majors including:
• Health Promotion
• Global Health
• Social Marketing
• Social Justice and Health Inequity
• 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 will gain valuable practical experience, be able to build professional networks and graduate industry-ready. As part of the program’s Professional Pathways courses, you will undertake a series of ‘passion projects’ where you have the opportunity to undertake work experience, volunteer work, and explore the areas you’re most interested in. You will be supported by a network of peers, advisory teachers, expert mentors and community along the way.

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Graduates are employed in non-government organisations, primary care organisations, local and state government, Indigenous health and more. Typical roles include:
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• Community Health Officer
• Environmental Health Officer
• Epidemiologist
• Health Administrator

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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 studies to complete a major transdisciplinary capstone project throughout your third year.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 87% securing work soon after graduating. Examples of roles that your degree could apply to include:
• Careers Counsellor
• Case Manager
• Case Worker
• Juvenile Justice Officer

PROFESSIONAL RECOGNITION
This degree is accredited by the Australian Psychology Accreditation Council and approved by the Psychology Board of Australia. Upon completion of an APAC accredited undergraduate degree, students who go on to complete either the Honours or postgraduate study in Psychology will be eligible for provisional registration as a psychologist with the Psychology Board of Australia. Please note that after completion of an APAC accredited undergraduate degree, a further minimum of three years education and training in psychology is required to register as a psychologist in Australia.
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/800 hours of clinical placement and a comprehensive range of practical experiences. Opportunities exist for placements in local, metropolitan, regional and rural clinics within Australia and internationally. Additionally, some clinical placements are completed within the University of Newcastle’s on-campus speech pathology clinic. Students must meet all the Speech Pathology requirements including a National Criminal Record Check, NSW Working with Children clearance and meet all the NSW Health Verification requirements. For more information visit the University of Newcastle website.

CAREER OPPORTUNITIES
The strong practical focus of this degree, and professional accreditation, prepares graduates for immediate professional employment. Diverse work opportunities exist in hospitals, community health centres, schools, private practice and aged care facilities. As well as working as a speech pathologist, there are opportunities for graduates to work in other related roles in health promotion, research and health services. Fluency in other languages enriches the skills and services provided by professional speech pathologists. Concurrent enrolment in the Diploma in Languages unlocks unique opportunities and career pathways in Australia and around the world.

PROFESSIONAL RECOGNITION
Accredited by the Speech Pathology Association of Australia. Accreditation is recognised in Canada, the United Kingdom, New Zealand and the United States of America. This degree is also recognised by Ministry of Health, Singapore.

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.

HEALTH AND MEDICAL SERVICES

Bachelor of Food Science and Human Nutrition/Bachelor of Business
This combination allows students to undertake and match business skills with their interest in food and nutritional sciences – a synergy that will maximise graduate employability.
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 practise as an Australian lawyer without any further study.

newcastle.edu.au/study/law

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

88.9%
of Law and Paralegal Studies graduates found employment within four months1

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

DEGREE OPTIONS
Bachelor of Laws (Honours) Combined

ALSO CONSIDER
Bachelor of Social Science

1 QILT Graduates Outcomes Survey 2017-2019
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
Ma & Morley Scholar
### Bachelor of Laws (Honours) Combined

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**UAC CODE** 485100  
**LOCATION** Newcastle – Callaghan and City campus

Our Bachelor of Laws (Honours) Combined degree is your entry to a career as a lawyer, or a range of other professions where a passion for justice and attention to detail are key. This degree is offered as a combined program, which means you 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.

### WHAT YOU WILL STUDY

When you study at the University of Newcastle, you will graduate with a Bachelor of Laws (Honours) and a second bachelor level degree in just five years of full-time study, plus the option of also gaining your Diploma of Legal Practice at the same time. You can do this as part of the last two years of study and complete the degree and diploma in five years.

You will graduate with skills and experience in:

- advanced legal research
- advocacy
- analytical problem solving
- high-level task management
- negotiation and dispute resolution
- oral and written communication

### PRACTICAL EXPERIENCE

The Newcastle Law School is Australia’s leading clinical law school and has a strong focus on experiential learning. This gives you the opportunity to work with real clients and cases during your studies. Through the Law School you’ll have the opportunity to:

- work with clients in the University of Newcastle Legal Centre
- undertake work placements
- complete an international immersion tour
- work at the Legal Centre’s renowned annual summer clinic held at Merewether Beach
- take part in public interest clinics in social justice and environmental law

### CAREER OPPORTUNITIES

Our graduates go on to secure jobs in a diverse range of areas, within four months of graduating. Studying law not only prepares graduates for a career in the legal profession, but a huge variety of other roles in sectors ranging from government and business to media and the arts.

Some typical positions include:

- Barrister
- Corporate Lawyer
- Judge’s Associate/Tipstaff
- Law Clerk/Paralegal
- Legal Aid Lawyer
- Policy Advisor
- Solicitor

### PROFESSIONAL RECOGNITION

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

### COMBINE THIS DEGREE WITH

- Bachelor of Arts
- Bachelor of Business
- Bachelor of 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

### 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 laws 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.
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 Psychological Science

**TOP 200**

- in the world for Geography

**TOP 250**

- in the world for Environmental Sciences

**ERA 5**

- rated well above world standard for Biochemistry and Cell Biology, Environmental Science and Management, Genetics, Microbiology, Physical Chemistry, Physiology, Plant Biology, Zoology

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1. QS World University Rankings by Subject 2019
2. Excellence in Research Australia 2018
Currently studying a Bachelor of Science with a major in sustainable resource management, Emilee is working hard to make our planet a more environmentally sustainable place to live. Alongside her studies, Emilee is already contributing to the mitigation of plastic pollution as a Volunteer Coordinator for Take 3 for the Sea. Through her volunteer work and studies, Emilee hopes to reconnect people to the planet and inspire everyone to create change through simple actions.

Emilee
Bachelor of Science
WHAT YOU WILL STUDY
Our academics are internationally recognised as leaders in their fields and are working to solve real-world problems. Under their leadership, you will focus on the application of DNA and cell technologies on human health, plant and animal agriculture and the environment. Core studies include:
- biochemistry
- biomolecules
- molecular biology
- molecular genetics

PRACTICAL EXPERIENCE
This degree offers students the opportunity to apply to undertake a 10-week full-time industrial placement, the longest placement available to biotechnology students in Australia. A feature of this degree is the separate courses focusing on laboratory skills which provides students with a hands-on experience.

CAREER OPPORTUNITIES
Biotechnology is predicted to be a key for solving global issues in the future, such as human and animal diseases, climate change, fuel alternatives and food security. You could go into a career as a:
- Biochemist
- Biotechnologist
- Clinical Research Coordinator
- Geneticist
- Laboratory Analyst
- Microbiologist

ACCREDITATION
Our graduates can apply for membership to AusBiotech and specialist societies such as the Australian Society of Biochemistry and Molecular Biology. This provides access to a large network of biologists who have regular events to help members share knowledge and collaborate.
If you want to contribute to solving the environmental problems facing our society, and have a passion for sustainability, then the Bachelor of Environmental Science and Management is for you. The University of Newcastle is centrally situated to give you hands-on experience in areas of vast environmental diversity, from terrestrial landscapes, to wetlands and coastal zones. We offer the perfect environment for you to gain an understanding of the critical issues placing a growing strain on the Earth’s natural resources and develop tactics to combat them.

WHAT YOU WILL STUDY
Choose from one of the following majors:
- Coastal and Marine Science
- Ecosystems and Biodiversity

PRACTICAL EXPERIENCE
From the first week of your degree you will gain real-world experience through fieldwork. This degree has a strong focus on field and lab work in a range of settings and environments. You will learn and build your skills in a number of key environmental locations, including mining areas, national parks, urban developments, and major waterways and coastal zones.

Your fieldwork is complemented by practical lab work where you have the opportunity to use professional equipment found in the workplace. In the final year of your degree you will undertake research or work-integrated learning experience in a private sector, government or community organisation.

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

Some typical positions include:
- Botanist/Plant Scientist
- Climatologist
- Coastal Management Officer
- Environmental Consultant

PROFESSIONAL RECOGNITION
Depending on your area of study you can gain professional recognition with the Hunter Environmental Institute, Australian Ecology Society, Australian Wildlife Management Society, Birds Australia, Australian Mammal Society, Australian Society of Herpetology, and the Australasian Institute of Minerals and Metallurgy. Graduates who complete the accredited Geology major will be a member of the Statistical Society of Australia. Graduates who complete the accredited Statistics major are eligible for accreditation through The Australian Institute of Physics (AIP). Graduates who complete the accredited Physics major are eligible for accreditation on becoming a member of the Statistical Society of America.

The Bachelor of Science will provide you with a new way of learning and 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.

WHAT YOU WILL STUDY
You can combine a mix of majors and electives to suit your study direction.
You can choose to study in areas such as:
- biological science
- chemistry
- earth science
- environmental science

PRACTICAL EXPERIENCE
Students will have access to world-class facilities including our nanoscience and chemistry laboratories and mathematics grid room. Throughout your degree you will participate in lab work to help develop your analytical, research and communication skills. From the first week of your degree you will be in the field, as we use the campus as our personal living laboratory. You will also take part in field trips, seminar presentations and workshops to enhance classroom theory and apply it to real-life situations.

CAREER OPPORTUNITIES
The flexible structure of this degree can lead to careers such as:
- Animal Biologist
- Botanist
- Chemist
- Climatologist
- Conservationist/Ecologist
- Geographer
- Geologist
- Marine Biologist
- Marine Biologist
- Mathematician
- Microbiologist
- Neuroscientist
- Oceanographer
- Physicist
- Statistician

PROFESSIONAL RECOGNITION
Graduates who complete the accredited Physics major are eligible for accreditation through The Australian Institute of Physics (AIP). Graduates who complete the accredited Statistics major are eligible for accreditation on becoming a member of the Statistical Society of America.

Graduates who complete the Geology major will be eligible for entry into the graduate category of the Australasian Institute of Minerals and Metallurgy.
SCIENCE AND THE ENVIRONMENT

BACHELOR OF SCIENCE (ADVANCED)

2020 SELECTION RANK
95.00 | Median 99.95

DURATION
3 yrs FT / 8 yrs PT

UAC CODE
484025
484035

LOCATION
Newcastle – Callaghan
Central Coast – Ourimbah

ASSUMED KNOWLEDGE
Mathematics

RECOMMENDED STUDIES
At least one of Biology, Chemistry, Physics or Earth and Environmental Science

Gone are the days of the stereotypical scientist – in today’s society, scientists need to work across research, industry and discipline boundaries to create solutions to the world’s most complex issues. You might work in a lab, discovering life-changing scientific breakthroughs, or use science to shape government policy. The Bachelor of Science (Advanced) will allow you to join a high achieving cohort and create your own academic adventure. Tailor your majors and professional pathways to achieve your career goals. You’ll have access to specialised mentoring, exposure to the wider Faculty of Science community and opportunities to participate in work-integrated learning and industry engagement.

WHAT YOU WILL STUDY
You can combine a mix of majors and electives to suit your study direction.
You can choose to study in areas such as:
• biological science
• chemistry
• earth science
• environmental science

• geography
• mathematics and statistics
• physics
• psychology

PRACTICAL EXPERIENCE
Students will have access to world-class facilities including our nanoscience and chemistry laboratories. Throughout your degree you’ll participate in lab work to help develop your analytical, research and communication skills. You will also take part in field trips, seminar presentations and workshops to enhance classroom theory and apply it to real-life situations.

CAREER OPPORTUNITIES
The flexible structure of this degree can lead to careers such as:
• Animal Biologist
• Botanist
• Chemist
• Climatologist
• Conservationist/Ecologist
• Geographer
• Geologist

• Marine Biologist
• Mathematician
• Microbiologist
• Neuroscientist
• Oceanographer
• Physicist
• Statistician

PROFESSIONAL RECOGNITION
Graduates who complete the accredited Physics major are eligible for accreditation through The Australian Institute of Physics (AIP).
Graduates who complete the accredited Statistics major are eligible for accreditation on becoming a member of the Statistical Society of Australia.
Graduates who complete the Geology major will be eligible for entry into the graduate category of the Australasian Institute of Mines and Metallurgy.

SCIENCE AND THE ENVIRONMENT

COMBINED DEGREES

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

Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science (Physics major only)
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 (Physics major only)
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 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 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.
SOCIETY AND CULTURE

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

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

DEGREE OPTIONS

Bachelor of Arts
Bachelor of Global Indigenous Studies
Diploma in Languages

ALSO CONSIDER

Bachelor of Development Studies
Bachelor of Laws (Honours) Combined
Bachelor of Music

TOP 150

in the world for Sociology

84.8%

of students satisfied with teaching quality
(Humanities, Culture and Social Sciences)

THE UNIVERSITY OF NEWCASTLE IS RANKED 207 IN THE WORLD

1 QS Rankings by Subject 2019
2 QILT Student Experience Survey 2017 – 2018
3 QS World University Rankings 2020
SAMANTHA DEFIES LIMITS

Samantha believes in the power of words to change the world. Her dream of becoming an author stems from her desire to inform world issues and shine a light on human rights and individual freedom. Born with a radial limb deficiency, Samantha says her disability taught her how to be resilient, but she wasn’t going to let it limit what she could achieve. Currently studying a Bachelor of Arts, Samantha believes that through her learning and education she can create positive change, which will not only benefit today’s global community but future generations as well.

Samantha
Bachelor of Arts
Ma & Morley Scholar
ARTS

2020 SELECTION RANK
62.00 | Median 73.08

DURATION
3 yrs FT / 8 yrs PT

UAC CODE
482010
482020
482040

LOCATION
Newcastle – Callaghan
Central Coast – Ourimbah
Online

RECOMMENDED STUDIES
English (Advanced) for all majors and Mathematics for Psychology Studies major

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
- French 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 from Work-Integrated Learning courses, independent projects or placements to help you reach your career goals.

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects with over 80% securing jobs upon completion of their degree. Employment options for graduates are linked with your chosen areas of specialisation and may include roles in local, state and 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 employees possessing skills developed by the Bachelor of Arts.

COMBINE THIS DEGREE WITH
- Bachelor of Innovation and Entrepreneurship
- Bachelor of Laws (Honours)
- Bachelor of Music
- Bachelor of Science

GLOBAL INDIGENOUS STUDIES

2020 SELECTION RANK
62.00 | Median 68.75

DURATION
3 yrs FT / 8 yrs PT

UAC CODE
482001
482002

LOCATION
Newcastle – Callaghan
Online

WHAT YOU WILL STUDY
The Bachelor of Global Indigenous Studies delivers a core focus on ensuring a strong student understanding of culture, history and politics. You will choose from the following majors:
- Entrepreneurship and Innovation
- Film, Media and Cultural Studies
- Global Indigenous Studies
- Governance, Policy and Political Economy

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

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

CAREER OPPORTUNITIES
The Bachelor of Global Indigenous Studies opens doors for jobs in a range of areas in both Indigenous and non-Indigenous organisations internationally. Graduates will pursue rewarding careers in Indigenous affairs and beyond. Some typical roles include:
- Community Development Worker
- Cultural Heritage Conservator
- Digital Media Content Producer
- Global Development Worker
- Organisational Cultural Diversity Practitioner

COMBINE THIS DEGREE WITH
- Bachelor of Development Studies
- Bachelor of Laws (Honours)
- Human Geography and the Environment
- Japanese Studies
- Linguistics
- Politics and International Relations
- Psychology Studies
- Sociology and Anthropology
- Studies of Religion
- Violence Studies
- Writing Studies
- Human Geography and the Environment
- Human Resource Management
- Human Services
- Sociology and Anthropology
- Information Technology
- Leadership and Management
- Innovation and Diversity
WHAT YOU WILL STUDY
Proficiency in another language will enrich your personal growth and skill set. You can focus on just one language, or select multiple languages:
- Chinese
- French
- German
- Japanese
Elective options are also available in AUSLAN (Australian Sign Language) and Aboriginal Languages.

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

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

THE UNIVERSITY OF NEWCASTLE
CITY CAMPUS
- Conservatorium
- NUspace
- Honeysuckle

NEWCASTLE INTERCHANGE
Train/Light Rail

HONEYSUCKLE
Waterfront entertainment area

DARBY STREET
Entertainment area

TRAVEL TIME

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

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

If you can’t make it to an Open Day, you can always book a guided walking campus tour at a time that suits you.

We look forward to seeing you here in 2020!

NEWCASTLE.EDU.AU/OPEN-DAY