FIND YOUR PASSION EXCITEMENT PURPOSE IDEALISM CREATIVITY VISION NEW


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

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

So, if you’re ready to embrace opportunity To chase your dreams and thrive Now is the time. Because your purpose won’t just find you. Find your new.
<table>
<thead>
<tr>
<th>YOU LIKE</th>
<th>YOU COULD STUDY</th>
<th>YOU COULD BE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Studies, Economics, Maths</td>
<td>ACCOUNTING AND FINANCE</td>
<td>Accountant, Economist, Financial Planner, Investment Banker, Mortgage Broker, Stockbroker</td>
</tr>
<tr>
<td>Art, 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, English, Information Technology, Industrial Technology, Music, Textiles and Design</td>
<td>COMMUNICATION AND CREATIVE INDUSTRIES</td>
<td>Animator, Artist, Copywriter, Graphic Designer, Multimedia Designer, Musician, Public Relations Officer</td>
</tr>
<tr>
<td>Biology, Community and Family Studies, Health and Physical Education, Maths, Society and Culture</td>
<td>COMMUNITY SERVICES</td>
<td>Aid Worker, Migrant Support Officer, Social Worker, Town Planner, Youth Worker</td>
</tr>
<tr>
<td>Art, Design and Technology, Drama, English, Geography, Health and Physical Education, History, Maths, Music, Science</td>
<td>EDUCATION</td>
<td>English as a Second Language Teacher, Learning and Development Consultant, Sport and Recreation Officer, Special Education Teacher, Teacher</td>
</tr>
<tr>
<td>Business Studies, Economics, English, Languages, Legal Studies, Media and Entertainment Studies</td>
<td>LAW</td>
<td>Contracts Manager, Industrial Relations Officer, International Aid Worker, Lawyer, Lobbyist, Political Adviser</td>
</tr>
<tr>
<td>Art, English, Geography, History, Languages, Music, Religion, Society and Culture</td>
<td>SOCIETY AND CULTURE</td>
<td>Cultural Heritage Conservationist, Community Development Worker, Demographer, Historian, Media Analyst, Translator</td>
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</table>
# 2020 UNDERGRADUATE DEGREES

## ACCOUNTING AND FINANCE

<table>
<thead>
<tr>
<th>DEGREE NAME</th>
<th>DURATION</th>
<th>2019 SR</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Commerce</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.45</td>
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</tr>
</tbody>
</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>2019 SR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Construction Management (Building) (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>60.00</td>
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<tr>
<td>Bachelor of Design (Architecture)</td>
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## BUSINESS AND ENTREPRENEURSHIP

<table>
<thead>
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<th>DEGREE NAME</th>
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<tbody>
<tr>
<td>Bachelor of Business</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>61.40</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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</table>

**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 Business/Bachelor of Laws (Honours)
- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- 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 Environmental Science and Management/Bachelor of Business
- Bachelor of Food Science and Human Nutrition/Bachelor of Business
- Bachelor of Information Technology/Bachelor of Business
- Bachelor of Innovation and Entrepreneurship/Bachelor of Laws (Honours)
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Mechatronics Engineering (Honours)/Bachelor of Business
- Bachelor of Science/Bachelor of Innovation and Entrepreneurship

## COMMUNICATION AND CREATIVE INDUSTRIES

<table>
<thead>
<tr>
<th>DEGREE NAME</th>
<th>DURATION</th>
<th>2019 SR</th>
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</tr>
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<tbody>
<tr>
<td>Bachelor of Communication</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>64.50</td>
<td>50</td>
</tr>
<tr>
<td>Bachelor of Creative Industries</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>60.60</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>
<tr>
<td>Bachelor of Natural History Illustration</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>66.45</td>
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<tr>
<td>Bachelor of Visual Communication Design</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>63.60</td>
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</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>DEGREE NAME</th>
<th>DURATION</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Development Studies</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>78.30</td>
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</tr>
<tr>
<td>Bachelor of Social Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>60.90</td>
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</tr>
<tr>
<td>Bachelor of Social Work (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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**COMBINED DEGREES**

- Bachelor of Development Studies/Bachelor of Business
- Bachelor of Development Studies/Bachelor of Global Indigenous Studies
- Bachelor of Development Studies/Bachelor of Laws (Honours)
- Bachelor of Development Studies/Bachelor of Social Science
- Bachelor of Social Science/Bachelor of Laws (Honours)
<table>
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<th>DEGREE NAME</th>
<th>DURATION</th>
<th>2019 SR</th>
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<tbody>
<tr>
<td>Bachelor of Computer Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>75.55</td>
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<tr>
<td>Bachelor of Computer Systems Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Information Technology</td>
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<tr>
<td>Bachelor of Mathematics</td>
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<td>83.05</td>
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<tr>
<td>Bachelor of Mathematics (Advanced)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>N/A</td>
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<tr>
<td>Bachelor of Technology (Renewable Energy Systems)</td>
<td>1 yrs FT / 4 yrs PT</td>
<td>N/A</td>
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</table>

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

<table>
<thead>
<tr>
<th>DEGREE NAME</th>
<th>DURATION</th>
<th>2019 SR</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Computer Systems Engineering (Honours)/Bachelor of Computer Science</td>
<td>4 yrs FT / 10 yrs PT</td>
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</tr>
<tr>
<td>Bachelor of Chemical Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>81.35</td>
<td>70</td>
</tr>
<tr>
<td>Bachelor of Civil Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>79.30</td>
<td>71</td>
</tr>
<tr>
<td>Bachelor of Electrical and Electronic Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>81.35</td>
<td>71</td>
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<tr>
<td>Bachelor of Engineering (Mining Transfer program)</td>
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<td>80.95</td>
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<tr>
<td>Bachelor of Environmental Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>84.75</td>
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</tr>
<tr>
<td>Bachelor of Mechanical Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>80.05</td>
<td>75</td>
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<tr>
<td>Bachelor of Mechatronics Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>80.90</td>
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<tr>
<td>Bachelor of Medical Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
<td>78.05</td>
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<tr>
<td>Bachelor of Renewable Energy Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Software Engineering (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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<tr>
<td>Bachelor of Surveying (Honours)</td>
<td>4 yrs FT / 10 yrs PT</td>
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**COMBINED DEGREES**

- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Civil Engineering (Honours)/Bachelor of Business
- Bachelor of Civil Engineering (Honours)/Bachelor of Surveying (Honours)
- Bachelor of Chemical Engineering (Honours)/Bachelor of Surveying (Honours)
- Bachelor of Chemical Engineering (Honours)/Bachelor of Business
- Bachelor of Chemical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Chemical Engineering (Honours)/Bachelor of Science
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Business
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Electrical and Electronic Engineering (Honours)/Bachelor of Science
- Bachelor of Environmental Engineering (Honours)/Bachelor of Science
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Business
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)/Bachelor of Science

1 Combined Degree only. See degree information for individual Selection Ranks.
2 See degree information for further details.
3 This is a new degree. Undergoing final University approval.
4 This is a new degree.
5 ATAR + other selection criteria.
### HEALTH AND MEDICAL SERVICES

<table>
<thead>
<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2019 SR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Biomedical Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>77.35</td>
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<tr>
<td>Bachelor of Exercise and Sport Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>72.20</td>
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</tr>
<tr>
<td>Bachelor of Food Science and Human Nutrition</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>60.60</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>72.70</td>
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<tr>
<td>Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)</td>
<td>4 yrs FT</td>
<td>74.00</td>
<td>82</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/A²</td>
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<tr>
<td>Bachelor of Midwifery</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>74.50</td>
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<tr>
<td>Bachelor of Nursing</td>
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<td>74.50</td>
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<tr>
<td>Bachelor of Nutrition and Dietetics (Honours)</td>
<td>4 yrs FT</td>
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<tr>
<td>Bachelor of Occupational Therapy (Honours)</td>
<td>4 yrs FT</td>
<td>85.60</td>
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<tr>
<td>Bachelor of Oral Health Therapy</td>
<td>3 yrs FT</td>
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<td>85</td>
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<tr>
<td>Bachelor of Pharmacy (Honours)</td>
<td>4 yrs FT</td>
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</tr>
<tr>
<td>Bachelor of Physiotherapy (Honours)</td>
<td>4 yrs FT</td>
<td>96.50</td>
<td>86</td>
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<tr>
<td>Bachelor of Podiatry</td>
<td>3 yrs FT</td>
<td>72.50</td>
<td>87</td>
</tr>
<tr>
<td>Bachelor of Psychological Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>62.50</td>
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<tr>
<td>Bachelor of Psychological Science (Advanced)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>N/A²</td>
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</tr>
<tr>
<td>Bachelor of Public and Community Health</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>N/A²</td>
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<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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<th>Degree Name</th>
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<th>2019 SR</th>
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<tbody>
<tr>
<td>Bachelor of Laws (Honours) Combined</td>
<td>5 yrs FT</td>
<td>90.50</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>2019 SR</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Biotechnology</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>64.05</td>
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</tr>
<tr>
<td>Bachelor of Coastal and Marine Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>N/A²</td>
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<tr>
<td>Bachelor of Environmental Science and Management</td>
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</tr>
<tr>
<td>Bachelor of Science</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>60.25</td>
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<tr>
<td>Bachelor of Science (Advanced)</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>N/A²</td>
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### 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
- 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
- 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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<tr>
<th>Degree Name</th>
<th>Duration</th>
<th>2019 SR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>60.20</td>
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</tr>
<tr>
<td>Bachelor of Global Indigenous Studies</td>
<td>3 yrs FT / 8 yrs PT</td>
<td>61.35</td>
<td>102</td>
</tr>
<tr>
<td>Diploma in Languages</td>
<td>2-6 yrs PT</td>
<td>N/A²</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
TOP 10 UNIVERSITY IN AUSTRALIA

No. 1 IN NSW FOR SOCIAL EQUITY

OVER 1,000 INDIGENOUS ENROLMENTS

- the first Australian University to reach this milestone

1 QS World University Rankings 2019
2 2019 Good Universities Guide
3 University of Newcastle Indigenous Enrolments 2016
Thank you for thinking about studying at the University of Newcastle.

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

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

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

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

The University of Newcastle is proud of its strong connections to the local community. Many of our lecturers work directly with local industry, and as a student you will benefit from countless opportunities that arise from this unique access to business and government.

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

I look forward to welcoming you to our beautiful campus.

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

"My early childhood had all the right ingredients for a failed adulthood, including alcoholism, domestic violence and the Department of Family and Community Services. I wanted to break this cycle and be a good, strong male role model for my kids when I have them, and to my siblings coming up behind me. Becoming a medical doctor is something I never thought possible."

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

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

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

**Kieran**

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

2019 Ma & Morley Scholar

Completed Yapug, 2018
COMMITMENT TO EQUITY

Our University is home to many talented, enthusiastic and diverse students – just like you – and providing equity of access to higher education is fundamental to who we are.

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

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

A LEADER IN INDIGENOUS EDUCATION

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

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

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

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

newcastle.edu.au/wollotuka

ACCESSIBILITY

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

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

newcastle.edu.au/current-students/support/accessability

52% DOMESTIC UNDERGRADUATE ENROLMENTS ARE 'FIRST IN FAMILY'\(^1\)
Virtual reality brings our imaginations to life. Now, we’re using it to help save lives – the lives of newborn infants.

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

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

Dr Donovan Jones
Program Convenor
Nursing and Midwifery (Honours)
WAYS OF TEACHING

Your degree is about more than just textbooks and tutorials, libraries and lectures.

When you study here, you’ll collaborate with teachers, industry professionals, and other students and focus on interactive learning. Maybe you’ll practise teaching students in a simulated classroom, use 3D printing to develop a prototype for your high-rise design, or learn how to deliver babies through virtual reality.

The way we teach is innovative and always changing – so you’ll be workplace-ready when you graduate.
"It’s just amazing that the University can offer us things like this course, and opportunities like filming a music video with The Living End."

Sarah
Bachelor of Communication (Media Production)

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

Dylan
Bachelor of Music

**ILEAD PLUS**

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

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

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

[newcastle.edu.au/ilead](http://newcastle.edu.au/ilead)
Sometimes it’s best to dive straight in. That’s why having the chance to get exciting industry experience is part of all our degrees.

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

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

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

Grace
Bachelor of Business
INTEGRATED INNOVATION NETWORK (I2N)

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

Offering co-working spaces, entrepreneurship programs and partnerships, I2N supports entrepreneurs and businesses to upskill, develop and test ideas and make valuable industry connections.

newcastle.edu.au/i2n

BLOCKSMART CAPITAL

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

If you have passion, drive and big ideas, we’re here to help make them a reality. That’s why we give you countless opportunities to fine tune your skills, make the right connections and take your idea to the next level. We want you to think outside the square (as clichéd as that sounds) and create your own path – like many other students have before you.

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

“I2N helped us realise opportunities, access resources and make connections we otherwise wouldn’t have made.

It has really helped us fast-track our business. And the workshops we attended covered skills essential to the success of a startup – things like financial modelling or digital marketing.

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

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

No. 1 UNIVERSITY IN AUSTRALIA FOR INNOVATION CONNECTIONS FOR ‘INDUSTRY COLLABORATION’

300+ INDUSTRY PARTNERS IN 2018

1 League table 2017 Innovation Connections program, Ausindustry
180 PARTNERSHIPS IN 32 COUNTRIES
for student exchange and study abroad programs
Are you keen to take your studies around the world? When you study here, you’ll have the chance to travel and get credit for your degree at the same time. There are opportunities for international experiences across every area of study, whether it’s an overseas exchange program, study tour or work placement.

Discover new cultures, try new food and make friends from all over the world. With more than 100 partner universities spanning all major continents, it really is the chance of a lifetime.

newcastle.edu.au/studyoverseas
WHERE YOU’LL STUDY

Our campuses are welcoming, inspiring and collaborative environments.

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

newcastle.edu.au/campus

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

The Pambalong Clan of the Awabakal Nation
Newcastle (Callaghan) campus

The Awabakal and Worimi Nations
Newcastle City campus

Darkinung People
Central Coast (Ourimbah) campus

Biripai People
Port Macquarie campus
NEWCASTLE CAMPUS CALLAGHAN

Our Newcastle campus is a central hub for Science, Technology, Engineering, Mathematics and Medicine (STEMM). Right next to the region’s largest hospitals and Hunter Medical Research Institute, as well as local defence and industrial hubs – this campus is ideally situated to provide you with endless opportunities to engage with industry and develop practical learning. With a focus on collaboration with global research partners, we’re perfectly placed to deliver immediate innovation impact and a hands-on, technology-rich student experience.

NEWCASTLE CITY CAMPUS

In the heart of Newcastle CBD, our City campus provides an integral link with industry in creativity, arts, business and law. The campus is a vibrant hive of innovation right on the doorstep of the city centre. Our state-of-the-art NeW Space building delivers a ‘next generation’ university experience, while our Innovation Hub is where you can engage with entrepreneurs, innovators, startups and developers to produce ideas that challenge the conventional. Our expansion into Honeysuckle will become the home of the creative industries and will enrich the student learning experience with specialised studios and technologies, while also offering shared spaces for students, staff, industry and community to enjoy.

CENTRAL COAST CAMPUS OURIMBAH

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

PORT MACQUARIE CAMPUS

Our Port Macquarie campus provides programs to help meet the growing needs of the Mid North Coast region. Industry partnerships foster top-quality student experiences and hands-on training offers active roles within local education and healthcare facilities.
Love getting active outdoors? Take a walk by the lake along the Warners Bay Esplanade, visit the trails and tracks of Glenrock State Conservation Area, and don’t forget to check out some of Newcastle’s rich history at Fort Scratchley or Nobbys Lighthouse too.

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

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

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

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

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

visitnewcastle.com.au
visitcentralcoast.com.au
TOP 10 CITY IN THE WORLD
Lonely Planet 2011

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

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

9 Take a road trip to the Central Coast, just an hour south of Newcastle, you’ll find our sister campus located in Ourimbah. Don’t miss the chance to visit the pretty towns of Avoca, Terrigal and Long Jetty, where you’ll find more boutique shopping and golden beaches to explore.

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

COST OF LIVING
While Newcastle’s beaches and laid-back lifestyle are a major drawcard, so is the money you could save by making the sea change.

According to Numbeo, it’s 25.8% cheaper to live in Newcastle than Sydney – think of the fun you could have with all that extra cash.
STUDENT LIFE

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

newcastle.edu.au/campuslife

CAFES AND LIVE MUSIC

Whether it’s a good coffee to kick-start your day, a game of pool with friends, a cold drink after a long day of lectures or a tasty meal, we’ve got you covered with a wide range of cafes, food outlets and bars on campus. And you don’t have to venture too far to catch some of the world’s biggest musicians and bands. Chances are you’ll find a gig at Callaghan’s Bar on the Hill or even Newcastle’s iconic Cambridge Hotel.

FESTIVALS AND EVENTS

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

CLUBS AND SOCIETIES

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

newcastle.edu.au/clubs
SERVICES ON HAND
There are a wide range of shops and services available to make campus life easier, including:
- bank
- medical centre and pharmacy
- post office
- book shop and other retailers
- childcare
- counselling

newcastle.edu.au/services

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

theforum.org.au

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

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

GETTING AROUND
We aim to make transport on and off campus simple.

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

Beautiful bike paths make riding around campus fun, and our bike hubs at Callaghan and NeW Space offer showers and secure storage.

A free city shuttle also runs between Callaghan and NeW Space every 30 minutes during semester.
While the thought of moving away from your hometown to study might seem daunting, we’re here to make this transition as easy as possible. We offer students secure, affordable and comfortable accommodation while studying. Whether it’s on-campus accommodation that you’re after or a house off campus for you and your friends, we have an option that will fit.

newcastle.edu.au/accommodation

2017 HOUSING OPERATOR OF THE YEAR

in the Asia Pacific Association for Student Housing awards

LIVING ON CAMPUS

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

There are a range of facilities and living environments available to students – including those with special needs – at our Newcastle and Central Coast campuses.

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

WHERE CAN I LIVE?

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

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

newcastle.edu.au/accommodation
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

2016 EXCELLENCE IN STUDENT EXPERIENCE OF THE YEAR

in the Asia Pacific Association for Student Housing awards

Song Hin Chio
@tinymouz
If you’re completing or have recently completed your HSC or equivalent, you may be eligible to receive an Australian Tertiary Admission Rank (ATAR) which can be used as a basis to gain entry into university. The ATAR is a number between 0.00 and 99.95 that ranks how you performed in the HSC compared to other students.

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

newcastle.edu.au/entryoptions

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

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

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

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

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

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

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

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

newcastle.edu.au/entryoptions

SCHOOL LEAVERS
If you’re coming to university straight after finishing high school, there are a number of entry options available to you.

newcastle.edu.au/schoolleaver

HIGHER SCHOOL CERTIFICATE (HSC)
If you’re completing or have recently completed your HSC or equivalent, you may be eligible to receive an Australian Tertiary Admission Rank (ATAR) which can be used as a basis to gain entry into university. The ATAR is a number between 0.00 and 99.95 that ranks how you performed in the HSC compared to other students.

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

newcastle.edu.au/entryoptions
**NON-SCHOOL LEAVERS**

Looking to apply for university but you haven’t completed the HSC within the last 12 months? That means you’re considered a non-school leaver.

newcastle.edu.au/nonschoolleaver

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**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.

---

**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.

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**CREDIT TRANSFER**

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

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

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

Upon successful completion of the programs, you’re guaranteed early entry to selected undergraduate degrees at the University of Newcastle. The programs can also be used for competitive admission to all other University of Newcastle degrees (excluding Medicine for Open Foundation and Newstep), as well as to many other universities and training programs around the country.

**NEWSTEP**

If you were unable to complete Year 12 or missed the chance to get the marks needed for university entry, our Newstep program offers another pathway for you.

Available at our Newcastle and Central Coast campuses, our one-year Newstep program is designed to bridge the gap between school and university.

To be eligible for this program, you must:

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

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

**OPEN FOUNDATION**

If you are seeking a new career direction, considering attending university or looking to further pursue your interests, our Open Foundation program can help make this happen.

Open Foundation is offered in three flexible delivery modes:

• online
• part-time
• full-time

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

To be eligible for this program, you must:

• be an Australian citizen or permanent resident currently living in Australia.

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

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

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

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

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

There are hundreds of scholarships on offer, including:
- scholarships for academic achievement
- support for individuals with financial hardship and educational disadvantage
- support for Indigenous students
- opportunities to travel, perform, play sport, relocate, or gain global experience

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

newcastle.edu.au/scholarships

YAPUG

ABORIGINAL AND/OR TORRES STRAIT ISLANDER STUDENTS

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

Delivered in partnership between the Wollotuka Institute and English Language Foundations Studies Centre (ELFSC), Yapug is a one-year program that is designed to help you develop the academic skills and self-discipline required for success in undergraduate study.

To be eligible for this program, you must be:
- turning 18 years of age or more in the year of study
- of Aboriginal and/or Torres Strait Islander descent.

newcastle.edu.au/yapug

THE MA & MORLEY SCHOLARSHIP PROGRAM

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

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

Ma & Morley Scholars receive:
- Up to $75,000 in financial assistance
- Global immersion experiences
- Enrichment and values-based leadership program
- Lifelong bonds and friendships

newcastle.edu.au/ma-morley

“ 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 McIlwraith
Halekulani, Central Coast NSW
Bachelor of Business/Bachelor of Laws (Honours)
Ma & Morley Scholar
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 AND RECOMMENDED KNOWLEDGE
Assumed knowledge should be studied prior to starting your degree. Classes will be taught on the assumption that you have a certain level of knowledge when you begin. Recommended studies are directly related to a particular degree and it’s highly recommended that you have undertaken the listed subjects as the course will be taught on the basis that you understand these subjects. The subjects listed under assumed knowledge and recommended studies are HSC courses. Equivalent TAFE, interstate, registered training provider or international qualifications are also accepted.

BRIDGING AND REFRESHER COURSES
If you’re looking to get a head start on your degree or refresh your knowledge on key subject areas, we strongly recommend completing a UON Prep bridging and refresher course prior to starting your degree. The courses are free and are available both online and on campus.

newcastle.edu.au/uonprep

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

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

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

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

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

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

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

QUALIFICATION
• Diploma: a program of study requiring 80 units to be completed.
• Associate degree: a program of study requiring 160 units to be completed.
• Bachelor degree: the university level qualification for entry into many professions.
• Honours: some degrees allow you to get an additional qualification that helps boost your chances at employment. Embedded honours is included as part of your degree and end-on honours is a separate additional year of study that you elect to complete.

SELECTION RANK (SR)
This score was the lowest Selection Rank of any school leaver to receive an offer in Semester 1, 2019 based on ATAR plus adjustment points. You may meet the score listed using your ATAR alone, or your Selection Rank (your ATAR plus adjustment points).
Please note, some degrees also have additional entry requirements or criteria (such as an audition) so check 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 “NA”. If ATAR is not considered, the minimum and median ATAR will be listed as “NA”.

SEMESTER
This is the academic teaching period, which is approximately 15-weeks in duration. There are two semesters in a year.

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

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

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

Over 100 undergraduate degrees and even more unique pathways to follow mean you’re sure to find an exciting and rewarding career that’s right for you. Choose a degree that excites and motivates you, or combine two and forge your own path.

Starting off on the right track is important. That’s why we’ve compiled all the key information you need to know for each degree – from entry requirements to what you will study, practical experience and potential career opportunities.

newcastle.edu.au/study

<table>
<thead>
<tr>
<th>Study Options</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNTING AND FINANCE</td>
<td>36</td>
</tr>
<tr>
<td>ARCHITECTURE, BUILDING AND CONSTRUCTION</td>
<td>40</td>
</tr>
<tr>
<td>BUSINESS AND ENTREPRENEURSHIP</td>
<td>44</td>
</tr>
<tr>
<td>COMMUNICATION AND CREATIVE INDUSTRIES</td>
<td>48</td>
</tr>
<tr>
<td>COMMUNITY SERVICES</td>
<td>54</td>
</tr>
<tr>
<td>COMPUTING, MATHS AND TECHNOLOGY</td>
<td>58</td>
</tr>
<tr>
<td>EDUCATION</td>
<td>64</td>
</tr>
<tr>
<td>ENGINEERING</td>
<td>68</td>
</tr>
<tr>
<td>HEALTH AND MEDICAL SERVICES</td>
<td>78</td>
</tr>
<tr>
<td>LAW</td>
<td>90</td>
</tr>
<tr>
<td>SCIENCE AND THE ENVIRONMENT</td>
<td>94</td>
</tr>
<tr>
<td>SOCIETY AND CULTURE</td>
<td>100</td>
</tr>
</tbody>
</table>
For Bachelor of Business (Leadership and Management) and Bachelor of Commerce (Accounting) student Julia, entrepreneurship is a means to empowerment, and financial literacy is the foundation for a prosperous future. As a recipient of the University of Newcastle’s iLEAD global leadership development scholarship, Julia had the once-in-a-lifetime opportunity to travel to the village of Bandung, Indonesia. There, she coached a group of local women in social entrepreneurship skills, including accounting and business performance. With the help of Julia and her colleagues, the women were able to make enough money to fund a library for the local children — a moment Julia describes as one of the proudest in her life. Today, Julia works as an accountant and is also a Finance Ambassador for the Greater Bank Finance Lab — a financial literacy partnership with the University of Newcastle and the Greater Bank.

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

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

**DEGREE OPTIONS**

Bachelor of Commerce

**ALSO CONSIDER**

Bachelor of Business

Bachelor of Innovation and Entrepreneurship Combined

Bachelor of Laws (Honours)

93.8% overall employment rate for Bachelor of Commerce graduates 2018

Our Business School holds AACSB Accreditation, earned by fewer than 5% of the world’s business programs.
WHAT YOU WILL STUDY
You may choose to study one major or two majors from the following:
• Accounting
• Economics

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

Gidail
Bachelor of Construction Management (Building) (Honours)
2019 Ma & Morley Scholar
Our architecture, building and construction degrees will empower you to think differently. To imagine new ways to live, work, and experience the world – and bring these ideas to life. Gain the skills needed to design and construct quality environments, from houses, to high-rises, galleries, modern factories or freeways. Learn how to emphasise social, economic and environmental sustainability, solve problems and build a better world.

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

**DEGREE OPTIONS**

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

**ALSO CONSIDER**

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

**TOP 100**

in the world for Architecture and Built Environment

**94.2%**

graduate employment for Architecture and Built Environment students

**No. 1 IN NSW**

for overall quality of education (students)
BACHELOR OF
CONSTRUCTION MANAGEMENT
(BUILDING) (HONOURS)

2019 SELECTION RANK
UAC CODE
LOCATION
RECOMMENDED STUDIES
WHAT YOU WILL STUDY
PRACTICAL EXPERIENCE
CAREER OPPORTUNITIES
PROFESSIONAL RECOGNITION

The construction industry in Australia is booming. Construction managers lead and coordinate physical infrastructure projects. Working both on and off site, they schedule and coordinate the design and construction process, including selecting, hiring and supervising trade contractors, as well as the project budget and legal aspects. The Bachelor of Construction Management (Building) (Honours) has a high level of professional recognition both in Australia and overseas. Our flexible delivery options make it easy for you to study by distance or work in the industry while completing your degree.

WHAT YOU WILL STUDY
Directly reflecting the needs of industry, you will build critical workplace skills in:
- building information modelling
- building surveying and estimating
- construction ecology and technology
- economics, finance and tendering
- law, health and safety
- management and communication

PRACTICAL EXPERIENCE
Bachelor of 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. As part of this degree, you will also be mentored by senior staff at Buildsoft.

CAREER OPPORTUNITIES
The construction industry continues to grow. Over the past five years, employment in the NSW construction industry has increased by 31%, and 94% of our graduates find work within four months of finishing their degree, with an average starting salary of $70,000.

Some typical careers include:
- Building Surveyor/Certifier
- Project Manager
- Construction Manager
- Property Developer
- Estimator
- Quantity Surveyor
- Facilities Manager
- Infrastructure Planner

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

BACHELOR OF
DESIGN
(ARCHITECTURE)

2019 SELECTION RANK
UAC CODE
LOCATION
RECOMMENDED STUDIES
WHAT YOU WILL STUDY
PRACTICAL EXPERIENCE
CAREER OPPORTUNITIES
PROFESSIONAL RECOGNITION

Architecture is more than just art and technology. At the University of Newcastle, our Bachelor of Design (Architecture) graduates are challenged to explore their potential as agents for change. Mentored by six AIA gold-medal winning professors in practice, our graduates don’t just design and shape the physical spaces of our cities and buildings – they use architecture to stimulate the places we live and work, engage the community and improve our world. Learn in the state’s newest creative innovation centre – Newcastle. Through live projects, you’ll develop design principles that emphasise social, economic and environmental sustainability and become a consultative problem solver.

WHAT YOU WILL STUDY
More than half of your degree is dedicated to architecture studio work, working on a range of practical and often live projects.
You’ll learn about:
- the architectural site as landscape
- construction and detailing of buildings
- 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 with organisations such as NSW Urban Growth through hands-on work and public exhibitions. Collaborate with organisations to improve the housing and health of disadvantaged people in remote Australia and developing countries. Our graduates also exhibit their work publicly at our graduate exhibition, an opportunity to showcase work to industry and the local community.

CAREER OPPORTUNITIES
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

PROFESSIONAL RECOGNITION
Fully accredited by the NSW Architects Registration Board, the Commonwealth Association of Architects and the Architects Accreditation Council of Australia. Internationally recognised through the Canberra and Washington Accord agreements, and as part of the Bologna Process for European Higher Education.
Dominic Exploring Entrepreneurship

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

Dominic
Bachelor of Business/Bachelor of Innovation and Entrepreneurship, 2017
BUSINESS AND ENTREPRENEURSHIP

Business and entrepreneurship students are trailblazers. Whether it’s taking a vision and turning it into a successful business, or improving existing business practices around the world. Our degrees are more dynamic, flexible and industry-engaged than ever before. Gain a broad understanding of Australian and global business environments, as well as practical skills needed for a successful career in marketing, human resources, tourism, sports management – or whichever major you choose. Where you take your degree is completely up to you.

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

TOP 200
in the world for Business and Economics

84.9%
overall employment rate for Bachelor of Business graduates in 2018

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. Times Higher Education Subject Rankings 2018
2. 2018 Graduate Outcomes Survey
### Bachelor of Business

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 big 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

**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)

### Bachelor of Innovation and Entrepreneurship Combined

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

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

**PROFESSIONAL RECOGNITION**
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

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### 2019 SELECTION RANK

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**RECOMMENDED STUDIES**
Mathematics

### 2019 SELECTION RANK

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**RECOMMENDED STUDIES**
Mathematics
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

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.
REID DRAWS ON EXPERIENCE

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

Reid
Bachelor of Visual Communication Design (Honours)
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

**TOP 150**
in the world for Sociology

**87%**
Creative Arts students give us top marks for teaching - higher than national average

**CUTTING-EDGE FACILITIES**
Students enjoy the most advanced communication technology available within our creative performance and production spaces.

**DEGREE OPTIONS**
Bachelor of Communication
Bachelor of Creative Industries
Bachelor of Music
Bachelor of Natural History Illustration
Bachelor of Visual Communication Design

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

1 QS Rankings by Subject 2019
2 Quality Indicators of Learning and Teaching 2018
WHAT YOU WILL STUDY
The Bachelor of Communication will provide you with a broad understanding of the discipline of communication and prepare you to work creatively and analytically in the media, communication and cultural industries.
Areas of study include:
- Creativity and Cultural Production
- Experience Creation
- Journalism
- Media Production
- Public Relations

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 industry 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 91% securing jobs upon completion of their degree. Graduates can find employment in a variety of roles across many different types of organisations.
Some example jobs include:
- Camera Operator
- Copywriter
- Editor
- Feature Writer
- Festival/Events Coordinator
- Film/Television Production Assistant
- Foreign Correspondent
- Journalist
- Media Analyst
- Political Advisor
- Public Relations Officer
- Publisher
- Radio Producer
- Social Media Consultant
- Web Designer

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

COMBINE THIS DEGREE WITH
- Bachelor of Laws (Honours)
The Bachelor of Music will prepare you for a career as a professional musician, producer, or composer in the music industry. The Bachelor of Music will prepare you for a career as a professional musician, producer, or composer in the music industry. You will have the opportunity to refine your skills through regular practical experience, including songwriting, composition, and performance (instrumental/voice). Benefit from a range of diverse specialist options including music research and music teaching and pedagogy.

WHAT YOU WILL STUDY
Our Bachelor of Music fosters collaborative activities between all our undergraduates, including performance, composition and sound production students. Benefit from a range of diverse specialist options including:

- Performance (instrumental/voice)
- Composition
- Songwriting
- Music Research and Communication
- Music Teaching and Pedagogy

PRACTICAL EXPERIENCE
You will have the opportunity to refine your skills through regular performances at the Conservatorium, as well as popular venues. We also have many active music ensembles and a wide variety of community and professional performance experiences.

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 professional musician or producer in a wide range of music-related fields.

COMBINE THIS DEGREE WITH
- Bachelor of Arts

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

WHAT YOU WILL STUDY
You will learn both traditional and digital illustration techniques to represent the environment in creative and innovative ways. You will also:

- develop field observation techniques
- collect specimens from the field in an ethical manner
- identify flora and fauna
- illustrate using a range of painting and drawing mediums
- photograph specimens
- produce anatomically accurate sketches
- study habitats and cultures
- work with specimens
- use laboratory equipment to observe and research a variety of subjects
- produce illustrative work for specific areas of science
- use digital platforms to capture, produce, edit and contextualise your illustrations for publication and display
- develop resources based on your illustrative work
- work on location in the field

PRACTICAL EXPERIENCE
You will have access to facilities like the Specimen Collection and Wildlife Lab, the Cultural Collections and the anatomy labs. Through applied project courses you can connect with industry organisations such as the Australian Museum, the Australian Reptile Park, the Royal Botanic Gardens, the Department of Primary Industries, the Office of Environment and Heritage (OEH), Hunter History Initiative, HMRI and similar organisations. These projects will allow you to develop an industry network and a professional portfolio.

CAREER OPPORTUNITIES
Careers span areas such as archaeology, botanics, medicine or science.

Some typical positions include:

- Animator
- Archaeological Illustrator
- Artist
- Botanical Illustrator
- Children's Book Illustrator
- Concept/Gaming Artist
- Exhibition Designer
- Fabric Designer
- Illustrator/Graphic Designer
- Medical Illustrator
- Museum/Art Gallery Curator
- Scientific Illustrator
- Tattoo Artist
- Researcher
WHAT YOU WILL STUDY

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

Areas of study could include:

• Graphic Design
• Screen Design
• Human Centred Design
• Advertising
• Illustration
• Animation
• Motion Graphics

PRACTICAL EXPERIENCE

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

CAREER OPPORTUNITIES

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

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

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

COMMUNICATION AND CREATIVE INDUSTRIES COMBINED DEGREES

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

Rachael
Bachelor of Social Work (Honours), 2018
COMMUNITY SERVICES

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

newcastle.edu.au/study/community-services

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

ALSO CONSIDER
Bachelor of Psychological Science

TOP 150 in the world for Sociology¹

TOP 200 in the world for Geography²

92.9% employment rate for Social Work (Honours) graduates²

¹ QS World University Rankings by Subject 2019
² 2018 Graduate Outcomes Survey
WHAT YOU WILL STUDY
Choose from one of the following majors:
• Cultures and Citizenship
• Environmental Sustainability

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 positions include:
• Aboriginal Cultural Educational Officer
• Aid Worker
• Community Development Worker
• Multicultural Community Liaison
• Urban Planner
• Youth Worker

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

WHAT YOU WILL STUDY
Specialise in one of the following majors:
• Criminology
• Global Indigenous Studies
• History
• Human Geography and the Environment
• Human Resource Management and Industrial Relations
• Human Services

PRACTICAL EXPERIENCE
As part of this degree you 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 94% finding work upon completion of their studies. Whatever your preferred path, you will graduate with work-ready skills for a career such as:
• Aboriginal Cultural Educational Officer
• Case Manager/Worker
• Corrections Officer
• Criminologist
• Cultural Development Officer
• Demographer
• Foreign Affairs and Trade Officer
• Health Promotion Officer
• Historian
• Linguist
• Police Officer
• Social Scientist
• Tourist Information Officer

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

PRACTICAL EXPERIENCE

Your work readiness will be strengthened by industry experience throughout your program of study including:

- A minimum of 1,000 hours of supervised field education placements
- Industry-engaged simulation learning, project-based and research with industry partners
- Opportunities for collaborative cross-disciplinary learning and community engagement such as the Law on the Beach clinic

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).
HARRISON ENHANCES TEAMS

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

Harrison
Bachelor of Information Technology, 2015
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

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

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

ERA 5
well above world standard for Applied Mathematics and Statistics

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1 Great Place to Work Australia, 2018 Survey
2 Quality Indicators for Learning and Teaching 2018
3 Excellence in Research 2018
Computer scientists work on challenging programming tasks, developing new software technologies and sophisticated new online systems. Computer science is fundamental to many everyday technologies like mobile phones, learning systems, online shopping, navigation systems, social media, computer games and programmable appliances. The Bachelor of Computer Science produces innovative and resourceful computer scientists who are experts at complex problem solving. They work across fields such as artificial intelligence, robotics, computer graphics, digital forensics, bioinformatics, web development, cryptography and data security.

WHAT YOU WILL STUDY
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. Work-integrated learning is available in your final year where you 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.

BACHELOR OF
COMPUTER SCIENCE

2019 SELECTION RANK
75.55 | Median 87.00

DURATION
3 yrs FT / 8 yrs PT

UAC CODE
482400

LOCATION
Newcastle – Callaghan

ASSUMED KNOWLEDGE
Mathematics (Band 5 or above)

RECOMMENDED STUDIES
Mathematics Extension 1 (Band E1 or above)

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

WHAT YOU WILL STUDY
Become job-ready through four professional practice courses and diversify your skills with four elective pathway courses. Build critical technical engineering skills in:
• advanced computer systems and embedded systems
• advanced physics
• computer and electrical engineering
• programmable logic design
• quantum mechanics and semiconductor physics
• signals and systems

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

CAREER OPPORTUNITIES
Computer systems engineering is flexible and diverse. Graduates might choose to focus on hands-on fieldwork, design and development, or pursue a leadership role managing people and projects. Our graduates enjoy great employment prospects with 92% securing jobs within four months of completing their degree. Some typical positions include:
• Computer Systems Analyst
• Computer Systems Specialist
• Information and Communications Technologist
• Network Engineer
• Web Developer

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

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

BACHELOR OF
COMPUTER SYSTEMS ENGINEERING (HONOURS)

2019 SELECTION RANK
80.00 | Median 99.95

DURATION
4 yrs FT / 10 yrs PT

UAC CODE
482630

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
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 industry’s evolving IT needs:

• Interactive Media
• Business Technology

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

CAREER OPPORTUNITIES
IT graduates work across almost every industry and not-for-profit organisation. You could go to work for organisations like Google, Amazon, Facebook or Apple.

Some typical positions include:

• Web Developer
• Games Designer/Animator
• Infrastructure Business Analyst

• Systems Analyst
• Software Developer
• Mobile App Designer

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

COMBINE THIS DEGREE WITH
• Bachelor of Business

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

WHAT YOU WILL STUDY
You develop skills in:

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

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

CAREER OPPORTUNITIES
IT graduates work across almost every industry and not-for-profit organisation. You could go to work for organisations like Google, Amazon, Facebook or Apple.

Some typical positions include:

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

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

COMBINE THIS DEGREE WITH
• Bachelor of Chemical Engineering (Honours)
• Bachelor of Civil Engineering (Honours)
• Bachelor of Computer Science Engineering (Honours)
• Bachelor of Electrical and Electronic Engineering (Honours)
• Bachelor of Mechanical Engineering (Honours)
• Bachelor of Mechatronics Engineering (Honours)
• Bachelor of Science
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

The Bachelor of Mathematics (Advanced) degree offers additional work- and research-integrated learning, as you will apply your studies to complete a major transdisciplinary capstone project in your third year.

CAREER OPPORTUNITIES

The Bachelor of Mathematics (Advanced) can lead you to a career in various fields. Some typical roles include:

- Algorithm Designer
- Nuclear Physicist
- Risk or Strategy Analyst
- Energy Consultant or Advisor

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.
COMBINED DEGREES

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

Bachelor of Computer Systems Engineering (Honours)/Bachelor of Mathematics
Sharpen your technical skills with advanced maths studies. Mathematics is fundamental to breakthrough engineering and can open up new, complementary fields like data mining, mathematical modelling, statistics and predictive analysis.

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

Bachelor of 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
A combined Mathematics and Mechanical Engineering (Honours) 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 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
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.
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)
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

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1. QS World University Rankings by Subject 2018
2. Quality Indicators of Learning and Teaching 2017
3. Teach NSW 2018
4. Teach NSW 2018

**TOP 100**

in the world for Education

91.2%

employment rate for Early Childhood and Primary Education

$65,608

average starting salary for Education graduates in NSW
WHAT YOU WILL STUDY
Diversify your skills and career pathways by qualifying to teach and work across both early childhood and primary school.

Key study areas include:
- psychology of learning and teaching
- children's learning and growth across the span of birth to 12 years
- families and society
- programming and planning for children aged 0-5 years
- theories and practices for teaching and learning for primary school children
- Aboriginal education
- special education
- leadership, administration, and policy in education settings

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

You can also take advantage of:
- Teach Outreach – a volunteer placement program
- NuTeach – an online platform for our students and staff that provides opportunities to network and collaborate

CAREER OPPORTUNITIES
Our graduates enjoy great employment prospects with 98% 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
- Special Education Teacher
- Primary School Teacher

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

Sam
Bachelor of Electrical and Electronic Engineering (Honours)
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 Top 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 overall student satisfaction and graduate skills

No. 8
in the world for Automation and Control Engineering

GE3
Group of Eight Australia - Engineering Associate

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)
### Bachelor of Aerospace Systems Engineering (Honours)

**What You Will Study**
Become job-ready through professional practice courses and diversify your skills with four elective pathways.
Build critical, technical engineering skills in:
- aircraft operations and performance
- principles of flight
- avionics
- propulsion
- aerospace design and materials
- embedded systems engineering
- a final year research project

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

**Career Opportunities**
Our graduates enjoy great employment prospects with 89% securing jobs within four months of completing their degree. Some typical positions include:
- Aerospace System Engineer
- Satellite Engineer
- Systems Engineer
- Various positions within aircraft design and manufacturing companies, Australian and international airlines, airworthiness organisations and the Australian Defence Force.

**Professional Recognition**
Accreditation for this degree will be sought from Engineers Australia.

### Bachelor of Chemical Engineering (Honours)

**What You Will Study**
Become job-ready through professional practice courses and diversify your skills with four elective pathways.
Build critical, technical engineering skills in:
- 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
- Mineral Processing Engineer
- Nuclear Engineer
- Water Treatment Designer

Complete one extra year 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 Science (Chemistry of Advanced Materials major only)
# Bachelor of Civil Engineering (Honours)

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<td>79.30</td>
<td>Median 87.73</td>
<td>4 yrs FT / 10 yrs PT</td>
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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**
Become job-ready through professional practice courses and diversify your skills with four elective pathways. Build critical, technical engineering skills in:

- structural engineering  
- fluid dynamics  
- water engineering  
- civil engineering materials  
- geomechanics  
- steel design

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

**CAREER OPPORTUNITIES**
Our graduates enjoy great employment prospects with 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  
- Structural Engineer  
- Transport Systems 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)

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# Bachelor of Electrical and Electronic Engineering (Honours)

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<th>DURATION</th>
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<tr>
<td>81.35</td>
<td>Median 94.55</td>
<td>4 yrs FT / 10 yrs PT</td>
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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 help 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 lifechanging medical technology – like the artificial pancreas.

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

- electric machines and power systems  
- analog and digital communications  
- signals and systems  
- signals and systems  
- electric energy systems  
- electrical engineering design

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

**CAREER OPPORTUNITIES**
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  
- 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)

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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
• technology and human values
• computer programming

Towards the end of second year, you may apply through UAC to complete your degree at UNSW or UOW. If you don't want 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 completing their degree.

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 with four elective pathways. Build critical, technical engineering skills in:
• environmental chemistry
• environmental legislation and planning
• fluid mechanics
• hydrobiological modelling
• land surface process and management
• water 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
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.

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)

2019 SELECTION RANK
80.05 | Median 86.50

DURATION
4 yrs FT / 10 yrs PT

UAC CODE 482670
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

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

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

- mathematics, physics, design and mechanics
- advanced materials and manufacturing
- 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 92% of graduates find work within four months of completing their degree. They work in medical, transport, aerospace, electronics, mining, renewable energy, robotics, automation and advanced manufacturing industries.

Some typical positions include:

- Engineering Project Manager
- Mechanical Engineering Designer
- Mechanical Systems Supervisor

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 Mechatronics Engineering (Honours)
- Bachelor of Mathematics (Physics major only)

BACHELOR OF 
MECHATRONICS ENGINEERING (HONOURS)

2019 SELECTION RANK
80.90 | Median 84.15

DURATION
4 yrs FT / 10 yrs PT

UAC CODE 482680
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

The Bachelor of Mechatronics Engineering (Honours) is concerned with the synergy of electrical, computer and mechanical technologies that lead to new solutions to industrial problems. You might create robots, unmanned aircrafts, bionic implants or an energy harvester. 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
Become job-ready through professional practice courses and diversify your skills with four elective pathways. Build critical, technical engineering skills in:

- computer-integrated manufacturing
- electronic design
- mechatronics design
- 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
- Data Communications Engineer
- Industrial Automation 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 Electrical and Electronic Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mathematics (Physics major only)
WHAT YOU WILL STUDY
Build critical medical and engineering skills through courses in:
• human pathophysiology
• analog and digital communications
• programming and computing

Choose one of the following majors:
• Medical Biomechanics
• Medical Computing

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

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

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

BACHMAN MEDICAL ENGINEERING (HONOURS)
2019 SELECTION RANK
78.05 | Median 94.85
DURATION
4 yrs FT / 10 yrs PT

UAC CODE 482690
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

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

PRACTICAL EXPERIENCE
All University of Newcastle engineering students must complete 12 weeks of professional practice during their degree. 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. Typical jobs include:
• Energy Accounting/Auditing
• Energy Management Consultant
• Energy Policy Development Officer

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

BACHMAN RENEWABLE ENERGY ENGINEERING (HONOURS)
2019 SELECTION RANK
83.75 | Median 92.65
DURATION
4 yrs FT / 10 yrs PT

UAC CODE 482700
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

WHAT YOU WILL STUDY
One of the biggest challenges humankind faces is the transition to a renewable energy economy. The success of this evolution depends on the creative solutions of a new generation of renewable energy engineers with specialised skills. Spanning the disciplines of chemical, electrical and mechanical engineering, the Bachelor of Renewable Energy Engineering (Honours) will equip you to work across the whole spectrum of technologies for renewable energy capture, conversion, storage, delivery and management. You’ll also choose courses in related areas of climate change policy, law and economics and environmental sciences.
WHAT YOU WILL STUDY
Become job-ready through professional practice courses and diversify your skills with four elective pathways. Build critical, technical engineering skills in:

• database management systems
• enterprise software
• computer architecture
• formal languages and automata programming languages and paradigms

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.

Some typical positions include:

• Applications Software Developer
• Control Systems Engineer
• Internet and Web Engineer

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

PROFESSIONAL RECOGNITION
Professional recognition through Engineers Australia and the Australian Computer Society means graduates will be qualified as professional engineers who can work almost anywhere in the world.
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 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 (honours) degree will provide you with the technical skills required to solve vital problems that arise during the design and manufacture of specialist machines and processes.

Bachelor of Mechanical Engineering (Honours)/Bachelor of Mechatronics Engineering (Honours)
Solve important problems using robotics, new advanced materials, the fundamental laws of energy generation and transmission, and the computer control of physical systems – from nano to mega-tonne scale.

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

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

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

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

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

Bachelor of Surveying (Honours)/Bachelor of Mathematics
A business degree gives you a firm understanding of the Australian and global business environments. This combination ensures you will have specialist business knowledge while possessing a strong understanding of surveying.
What Bachelor of Occupational Therapy alumnus Brigette loves most about her field is the lifelong impact it can have on people and communities. At the University of Newcastle, she was able to make a difference across multiple fields of care, including mental health, community aged care, and paediatrics. In the final year of the program, Brigette was selected to travel abroad and complete 10 weeks of work-integrated learning at a school in Fiji. In this new and unfamiliar culture, Brigette faced language barriers and a scarcity of resources. Despite those challenges, Brigette’s impact on the community was not only immediate — it was enduring. Because of her work there, the school is now hiring a full-time Occupational Therapist.

Brigette
Bachelor of Occupational Therapy (Honours), 2018
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)
WHAT YOU WILL STUDY
Opportunities to study a wide range of courses are available and you will be exposed to varying modes of study including face-to-face and online learning.

Choose from one of the following majors:
- Medical/Health Professional
- 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 positions include:
- Biotechnologist
- Clinical Research Coordinator
- Geneticist
- Pharmaceutical Scientist
- Reproductive Medicine/IVF Specialist
- Science Educator

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

WHAT YOU WILL STUDY
This degree addresses both sport and health aspects in its comprehensive approach to the study of exercise and biological sciences.

Some of the courses you will complete focus on:
- biomechanics
- clinical exercise testing and prescription
- exercise physiology
- growth, development and ageing
- sports nutrition

PRACTICAL EXPERIENCE
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
Our graduates have great employment prospects with 94% securing employment within four months of graduating. 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 will be accredited with Exercise and Sport Science Australia (ESSA). Graduates may also complete an Exercise Science Sequence to qualify as an Exercise Scientist for ESSA.
WHAT YOU WILL STUDY
Graduates develop a strong foundation of the principles underlying the sciences of food technology and human nutrition. This includes basic sciences, chemistry and biology of nutrients, and the attributes of foods including food commodities and functional foods.

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

PRACTICAL EXPERIENCE
Offered from our Central Coast campus, you will train in a test kitchen sponsored by Sara Lee Australia. This is an essential part of the product development process where you can initiate and test product concepts, reflecting how it’s done in the industry. There are also opportunities for work placement and field trips that enable you to apply real-life experiences to your studies and give you a competitive edge.

CAREER OPPORTUNITIES
The 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
• Nutritionist or Dietician
• Quality Assurance Technician
• Radiation Protection Officer
• Statistics and Research Methodology

COMBINE THIS DEGREE WITH
• Bachelor of Business

2019 SELECTION RANK
60.60 | Median 56.45
DURATION
3 yrs FT / 8 yrs PT

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

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. You may find yourself working in dynamic settings such as an emergency ward, performing time-sensitive tests to diagnose and save a life – or an operating theatre where you will find the exact location of a bleed to avoid a blood clot. The medical images you produce will allow accurate diagnosis and play an important role in improving community health.

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.

Your 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 positions include:
• Cardiac Technologist
• Chief Radiographer
• Diagnostic Radiographer
• Echocardiography Technologist
• Medical Technician
• 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).

2019 SELECTION RANK
86.30 | Median 95.60
DURATION
4 yrs FT / 6 yrs maximum

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

* 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 the program.
WHAT YOU WILL STUDY
This degree equips you with specialised scientific knowledge and gives you practical medical radiation experience.
Your areas of study will include:
• anatomy
• molecular imaging
• nuclear medicine theory
• patient care

PRACTICAL EXPERIENCE
You will complete 42 weeks of clinical placement, supervised and mentored by qualified nuclear medicine scientists in both public and private centres, locally or 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 positions include:
• Echocardiography Technologist
• Medical Technician
• Nuclear Medicine Technologist

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

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.
Your areas of study will include:
• anatomy
• behavioural science
• clinical methods
• imaging and treatment technologies

PRACTICAL EXPERIENCE
You will complete 42 weeks of 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 90% finding work within four months of completing their degree. Some typical positions include:
• Echocardiography Technologist
• Medical Technician
• Radiation Therapist
• Sonographer

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)

2019 SELECTION RANK
UAC CODE | LOCATION
---|---
785000 | Newcastle – Callaghan

RECOMMENDED STUDIES
English (Standard) or English (Advanced)

ENTRY REQUIREMENTS
There are additional entry requirements for this degree. Please see website for more information.

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’ll learn the basic clinical skills associated with the body systems including communication skills, in preparation for contact with patients. During this phase of the program you’ll also 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
- 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

2019 SELECTION RANK
UAC CODE | LOCATION
---|---
483600 | Newcastle – Callaghan
483600 | Port Macquarie

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

ENTRY REQUIREMENTS
There are additional entry requirements for this degree. Please see website for more information.

WHAT YOU WILL STUDY
You will learn contemporary midwifery practice and new models of maternity care with a focus on primary healthcare, 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 positions include:

- Clinical Midwife Educator
- Clinical Midwife Specialist
- Registered Midwife
- Midwife

PROFESSIONAL RECOGNITION
Graduates are eligible to apply for registration to practise 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 / 8 yrs PT

**LOCATION**
- Newcastle – Callaghan
- Central Coast – Ourimbah
- Port Macquarie

**2019 SELECTION RANK**
- Newcastle – Callaghan: 74.50 (Median 82.65)
- Central Coast – Ourimbah: 69.10 (Median 76.00)
- Port Macquarie: 65.10 (Median 74.15)

**UAC CODE**
- Newcastle – Callaghan: 483610
- Central Coast – Ourimbah: 483600
- Port Macquarie: 483620

**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 healthcare 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
- mental health
- human bioscience
- aged care

**PRACTICAL EXPERIENCE**
You will complete 800 hours of compulsory clinical experience. Clinical placements occur in blocks and involve morning and evening shifts. Night duty is introduced in your final year. Clinical placement is conducted in a variety of settings including:
- medical-surgical facilities
- acute care
- 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 95% 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 Specialist
- Clinical Nurse Consultant
- Nurse Manager
- Nurse Practitioner

**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)

**DURATION**
4 yrs FT / 6 yrs maximum

**UAC CODE**
483650

**LOCATION**
Newcastle – Callaghan

**RECOMMENDED STUDIES**
Chemistry

Demand for Bachelor of Nutrition and Dietetics (Honours) graduates is growing as diet and nutrition-related diseases – such as heart disease, diabetes and obesity – become increasingly common worldwide. As a student, you will have access to world-class researchers and educators, and 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**
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:
- Dietitian
- Diabetes Educator
- Health Promotion Officer
- Nutritionist
- Sports Dietitian
- Dietetic Practice
- Paediatric Nutrition and Dietetics
- Statistics and Research Methodology

**PROFESSIONAL RECOGNITION**
Our students are eligible to apply for Accredited Practising Dietitian status as well as full membership to the Dietitians Association of Australia.
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. Your areas of study will include:

• anatomy and physiology
• biomedical, behavioural, and occupational sciences and therapy
• mental health

PRACTICAL EXPERIENCE
You will complete more than 1,000 hours of professional practice and be mentored and 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 and playground.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 95% 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 positions include:

• Exercise Rehabilitation
• Injury Management Advisor
• Lifestyle Coordinator

PROFESSIONAL RECOGNITION
The University of Newcastle’s Occupational Therapy (Honours) is accredited by the Occupational Therapy Board of Australia (OTB) under the Australian Health Practitioner Regulation Agency (AHPRA).

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. Your areas of study will include:

• anatomy and physiology
• biomedical, behavioural, and occupational sciences and therapy
• mental health

PRACTICAL EXPERIENCE
You will complete more than 1,000 hours of professional practice and be mentored and 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 and playground.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 95% 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 positions include:

• Exercise Rehabilitation
• Injury Management Advisor
• Lifestyle Coordinator

PROFESSIONAL RECOGNITION
The University of Newcastle’s Occupational Therapy (Honours) is accredited by the Occupational Therapy Board of Australia (OTB) under 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.

Your areas of study will include:
- 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 positions include:
- Community Pharmacist
- Hospital Pharmacist
- Industrial Pharmacist

PROFESSIONAL RECOGNITION
Once you graduate, you will need to complete a one-year internship before being registered with the Pharmacy Board of Australia under the Australian Health Practitioner Regulation Agency (AHPRA) requirements. This degree is accredited by the Australian Pharmacy Council.

Bachelor of Physiotherapy graduates work with people of all ages to help them stay well and to overcome injuries and disabilities that hinder their function, mobility and quality of life. You will learn problem solving skills and to use a variety of evidence-based assessment and management strategies. You might find yourself assisting an elderly patient’s stroke rehabilitation, developing a new device that greatly improves the quality of life for a child with a movement disorder, treating a person in intensive care with multiple traumatic injuries after a car accident or helping a professional sports player in the management of an injury.

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

Your areas of study will include:
- advanced anatomy and physiology
- clinical physiotherapy
- health promotion
- community health
- physiology and pathophysiology
- statistics and research methodology

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

CAREER OPPORTUNITIES
Our graduates have great job prospects with 99% securing work within four months of finishing their degree. A physiotherapy qualification from the University of Newcastle will ensure you have the vital skills required to excel as a health professional.

Our graduates are often employed in healthcare organisations, sports and workplace settings or private practices.

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 areas of study 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 practice on real patients at Wyong Hospital.

CAREER OPPORTUNITIES
Our graduates enjoy great job prospects with 90% securing work within four months of finishing their degree.
Some typical positions include:
• General or specialised podiatry practice e.g. sports podiatry
• Health Promotion Officer

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

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

PROFESSIONAL RECOGNITION
Accredited by Psychology Board of Australia and Associate Membership of the Australian Psychological Society (APS). This degree is also accredited by the Australian Psychology Accreditation Council (APAC).
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’ll gain valuable practical experience, be able to build professional networks and graduate industry-ready. As part of the program’s Professional Pathways courses, students will undertake a series of ‘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

• Health Educator
• Health Promotion Officer
• Project Officer
• Public Health Officer
• Public Health Program Manager
• Social Marketing Manager

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.

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
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. Some typical positions include:
• Careers Counsellor
• Practicing Psychologist
• Juvenile Justice Officer

PROFESSIONAL RECOGNITION
This program is seeking provisional accreditation through the Psychology Board of Australia, the Associate Membership of the Australian Psychological Society (APS), and the Australian Psychology Accreditation Council (APAC).

* Undergoing final University approval.
^ This is a new degree.
WHAT YOU WILL STUDY
This degree is an interdisciplinary program. Throughout the degree, you will study linguistics, human bioscience, statistics, psychology as well as speech pathology specific courses. You will develop competencies and skills to confidently assess, diagnose and treat a range of conditions including developmental speech and language disorders, cerebral palsy, stroke, head injury, and Parkinson’s disease.

PRACTICAL EXPERIENCE
Develop impressive real-world skills with more than 20 weeks of clinical placement and a comprehensive range of practical experiences. Opportunities exist for placements in local, metropolitan, regional and rural clinics within Australia and internationally. Additionally, some clinical placements are completed within the University of Newcastle’s on-campus speech pathology clinic.

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

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

SPEECH PATHOLOGY (HONOURS)

<table>
<thead>
<tr>
<th>2019 SELECTION RANK</th>
<th>DURATION</th>
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<tbody>
<tr>
<td>77.10</td>
<td>4 yrs FT / 10 yrs PT</td>
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<table>
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<tr>
<th>UAC CODE</th>
<th>LOCATION</th>
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<tr>
<td>484150</td>
<td>Newcastle – Callaghan</td>
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<table>
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<tr>
<th>RECOMMENDED STUDIES</th>
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<tr>
<td>Biology, Chemistry, Mathematics and English (Advanced)</td>
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Speech pathologists are allied health professionals responsible for the assessment and treatment of children and adults with communication and swallowing disorders. 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.

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.
ALISSA DRIVES INTERNATIONAL IMPACT

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

Alissa
Bachelor of Commerce/Bachelor of Laws (Honours)
Diploma of Legal Practice, 2018
2019 Ma & Morley Scholar
If you’re passionate about justice and want to understand more about creating real change through legislation and policy - law is the career for you. You’ll learn about the principles underlying the Australian legal system while also advocating for legal rights on local, national and global issues. As Australia’s leading clinical law school, the Newcastle Law School’s Legal Centre provides you with the practical legal training and supervised clinical legal experience needed to practice as an Australian lawyer without any further study.

newcastle.edu.au/study/law

DEGREE OPTIONS
Bachelor of Laws (Honours) Combined

ALSO CONSIDER
Bachelor of Social Science

TOP 300
in the world for Law¹

94.7%
overall employment rate for Bachelor of Laws (Honours)/Graduate Diploma of Legal Practice²

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

¹ QS World University Rankings by Subject 2017
² 2018 Graduate Outcomes Survey
Our Bachelor of Laws (Honours) Combined degree is your entry to a career as a lawyer, or a range of other professions where a passion for justice and attention to detail are key. This degree is offered as a combined program, which means you will undertake your degree in conjunction with another degree, and receive two qualifications in only five years of study. Newcastle Law School runs a unique Practice Program that integrates the academic study of law with hands-on clinical experience and practical training. Students work with real clients under the supervision of legal practitioners at the University of Newcastle Legal Centre.

### PRACTICAL EXPERIENCE

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

### PROFESSIONAL RECOGNITION

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

### COMBINE THIS DEGREE WITH

- Bachelor of Arts
- Bachelor of Business
- Bachelor of Commerce
- Bachelor of Communication
- Bachelor of Development Studies
- Bachelor of Global Indigenous Studies
- Bachelor of Innovation and Entrepreneurship
- Bachelor of Science
- Bachelor of Social Science

### LAW

**COMBINED DEGREES**

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

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

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

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

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

Combine your background in commerce with a degree in law to improve your knowledge of important legislation that is relevant to accounting, finance and economics.

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

Some of the most powerful and influential forces within our society are the media and communication technology. Combine this degree with law and be at the forefront of constantly developing 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.
JOSEPH GROWS HOPE

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

Joseph
PhD (Biology)
Bachelor of Biotechnology (Honours), 2015
SCIENCE AND THE ENVIRONMENT

There’s no one type of scientist. Career opportunities are exciting and always evolving. You might work in a lab, discovering life-changing scientific breakthroughs. You could work in science education, sharing your passion and knowledge with the next generation. Maybe you see yourself using science to shape government policy – or something else entirely. A science degree gives you the flexibility to explore your interests and make an impact through the pathway that’s right for you.

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

DEGREE OPTIONS

Bachelor of Biotechnology
Bachelor of Coastal and Marine Science
Bachelor of Environmental Science and Management
Bachelor of Science
Bachelor of Science (Advanced)

ALSO CONSIDER

Bachelor of Biomedical Science
Bachelor of Chemical Engineering (Honours)
Bachelor of Development Studies
Bachelor of Environmental Engineering (Honours)
Bachelor of Exercise and Sport Science
Bachelor of Food Science and Human Nutrition
Bachelor of Natural History Illustration
Bachelor of Psychological Science

TOP 200
in the world for Geography

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

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

1. QS World University Rankings by Subject 2019
2. Quality Indicators for Learning and Teaching 2018
3. Excellence in Research 2019
### WHAT YOU WILL STUDY

You can choose to study in areas such as:

- Animal Biology
- Coastal and Surface Processes
- Geography
- Natural History Illustration
- Politics and Policy
- The Marine Environment

### PRACTICAL EXPERIENCE

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

### CAREER OPPORTUNITIES:

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

- Animal Biologist
- Botanist
- Conservationist/Ecologist
- Geographer
- Marine Biologist
- Oceanographer
BACHELOR OF ENVIRONMENTAL SCIENCE AND MANAGEMENT

If you want to play a part in 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:
- Earth Systems
- Ecosystems and Biodiversity
- Marine Science
- Sustainability

PRACTICAL EXPERIENCE
As part of this degree, there is a strong focus on fieldwork in a range of settings and environments. You will learn and build your skills in a number of key environmental locations, including mining areas, national parks, urban developments, 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 also have the opportunity to complete an 80-hour work placement 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 Health/Sustainability Officer
- Marine Scientist
- Water Resource Management Specialist

PROFESSIONAL RECOGNITION
Depending on your area of study you can gain professional recognition with the Hunter Environmental Institute, Australian Ecology Society, Australian Wildlife Management Society, Birds Australia, Australian Mammal Society, Australian Society of Herpetology.

COMBINE THIS DEGREE WITH
- Bachelor of Business

BACHELOR OF SCIENCE

The immense field of science is exciting and always evolving. It underpins areas such as technology, industry, business, agriculture, environment, research and development, health, and the information revolution. The Bachelor of Science will provide you with a new way of learning and new path to discovery. Develop practical business and communication skills that will complement and enhance your science knowledge – making you a highly skilled and employable science graduate. Through professional pathways, students can tailor their program to meet their career aspirations.

WHAT YOU WILL STUDY
You can combine a mix of majors and electives to suit your study direction.

You can choose from a variety of majors that are offered under the following disciplines (double majors available):
- Biological Science
- Chemistry
- Earth Science
- Environmental Science
- Geography
- Mathematics and Statistics
- Physics
- Psychology

PRACTICAL EXPERIENCE
From the very first week of your degree, you will be participating in lab and field work. You will have access to world-class facilities including our nanoscience and chemistry laboratories and mathematics grid room. Throughout your degree you’ll 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. As a Bachelor of Science student, you will apply your studies to complete a major transdisciplinary capstone project across your third year.

CAREER OPPORTUNITIES
The flexible structure of this degree can lead to careers such as:
- Climatologist
- Conservationist/Ecologist
- Geographer
- Marine Biologist
- Microbiologist
- Neuroscientist
- Oceanographer

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

COMBINE THIS DEGREE WITH
- Bachelor of Arts
- Bachelor of Chemical Engineering (Honours)
- Bachelor of Computer Systems Engineering (Honours)
- Bachelor of Electrical and Electronic Engineering (Honours)
- Bachelor of Environmental Engineering (Honours)
- Bachelor of Innovation and Entrepreneurship
- Bachelor of Mathematics
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)
- Bachelor of Laws (Honours)
SCIENCE OF
SCIENCE AND THE ENVIRONMENT

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
- Mathematics
- Physics
- Psychology

PRACTICAL EXPERIENCE
Students will have access to world-class facilities including our nanoscience and chemistry laboratories and mathematics grid room. Throughout your degree you’ll participate in lab work to help develop your analytical, research and communication skills. You will also take part in field trips, workshops to enhance classroom theory and apply it to real-life situations. The program 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
The flexible structure of this degree can lead to careers such as:
- Animal Biologist
- Botanist
- Chemist
- Geologist
- Mathematician
- Physicist
- Statistician

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

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
Physics is fundamental to engineering and a deeper knowledge of this science can help you navigate complex engineering problems. This advanced theoretical background will also open up job prospects in research and development.

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

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

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

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

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

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

Amy
PhD (Linguistics)
Bachelor of Arts (Honours), 2017
SOCIETY AND CULTURE

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

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

RANKED
214
in the world

TOP 200
in the world for Sociology

82%
of students satisfied with teaching quality

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

1 QS World University Rankings 2019
2 QS Rankings by Subject 2019
3 Quality Indicators of Learning and Teaching 2019
**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 work-integrated learning courses, independent projects and placements to help you reach your career goals.

**CAREER OPPORTUNITIES**

Our graduates enjoy great employment prospects with over 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)

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**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 positions include:
- Community Development Worker
- Cultural Heritage Conservationist
- Digital Media Content Producer
- Global Development Worker
- Organisational Cultural Diversity Practitioner
- Policy and Research Officer
- Program Innovation Consultant
- Social Enterprise Founder
- Startup Entrepreneur

**COMBINE THIS DEGREE WITH**
- Bachelor of Development Studies
- Bachelor of Laws (Honours)
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 reserves the right at all times to withdraw or vary degrees listed within this publication. In the event that a degree within this publication has to be changed or withdrawn, applicants will be advised by mail to the address specified by them on their UAC application.

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

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

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

**NEWCASTLE CAMPUS**
CALLAGHAN
University Drive,
Callaghan NSW 2308

**NEWCASTLE CITY CAMPUS**
Corner Hunter and Auckland Streets,
Newcastle NSW 2300

**CENTRAL COAST CAMPUS**
OURIMBAH
Chittaway Road,
Ourimbah NSW 2258

**PORT MACQUARIE CAMPUS**
Corner Oxley Highway and Widderson Street,
Port Macquarie NSW 2444