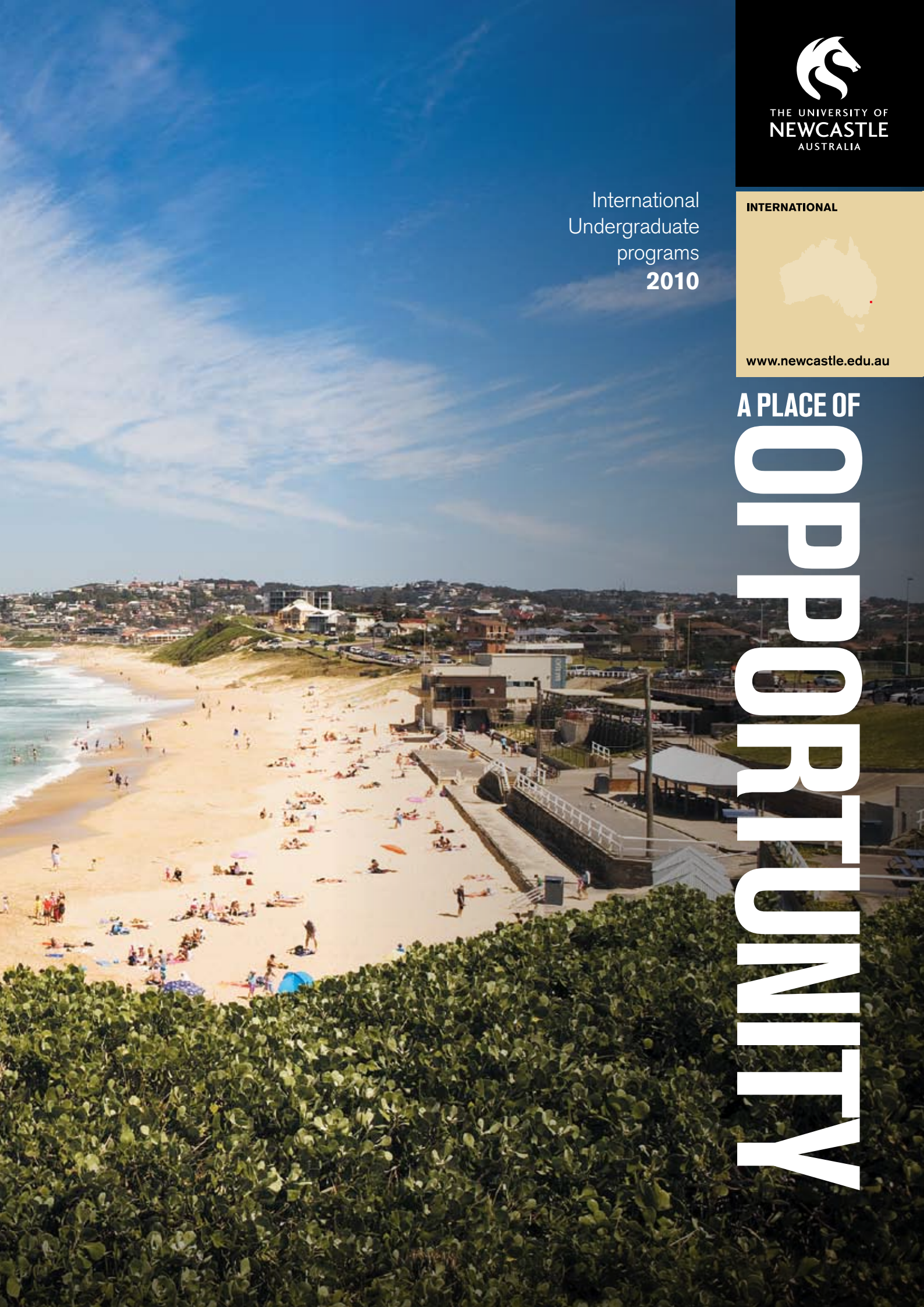


THE UNIVERSITY OF NEWCASTLE AUSTRALIA

International Undergraduate programs **2010**

**INTERNATIONAL**

www.newcastle.edu.au

# A PLACE OF OPPORTUNITY

# WELCOME

Selecting a university program marks the start of an exciting period of your life.

Whether you are in your final year of study at school, changing career direction, or furthering your education, we can help you choose a degree program to suit your goals.

The University of Newcastle is hands-on and responsive in the way we teach. Many of our degree programs include a focus on students gaining work experience in their profession.

As a result, people who study here do well – our graduates are sought after by employers and enjoy above average starting salaries and employment rates.

We provide a great environment for study – whether located at Newcastle, or the Central Coast. You will learn in a student-focused learning environment with a mix of academic, sporting, cultural and social opportunities.

I encourage you to take a look at the undergraduate degree programs on offer and consider the many advantages of choosing the University of Newcastle as your university.

Professor **Nicholas Saunders**
Vice-Chancellor and President

# THE ACADEMIC YEAR

The academic year at the University, for the majority of programs, is divided into two 14-week semesters with a five-week break between each.

An enrolment and orientation program for international students is held before the commencement of each semester. The University Orientation Week commences on the Monday before the beginning of each semester and all students should plan to attend this week.

**Semester Dates for 2009**

Semester 1 commences Monday 2 March
Semester 1 Recess including Easter Friday 10 April – Friday 17 April
Semester 1 resumes Monday 20 April
Semester 1 concludes Friday 5 June
Mid Year Examinations Tuesday 9 June – Friday 26 June
Semester 2 commences Monday 27 July
Semester 2 Recess Monday 28 September – Friday 9 October
Semester 2 resumes Monday 12 October
Semester 2 concludes Friday 6 November
End of Year Examinations Monday 9 November – Friday 27 November

**Semester Dates for 2010**

Semester 1 commences Monday 1 March
Semester 1 Recess (including Easter) Friday 2 April – Friday 9 April
Semester 1 concludes Friday 4 June
Mid Year Examinations Monday 7 June – Friday 25 June
Semester 2 commences Monday 26 July
Semester 2 Recess Monday 27 September – Friday 8 October
Semester 2 concludes Friday 5 November
End of Year Examinations Monday 8 November – Friday 26 November

**Semester Dates for 2011**

Semester 1 commences Monday 28 February
Semester 1 Recess (includes Easter) Friday 22 April to Friday 29 April
Semester 1 resumes Monday 02 May
Semester 1 concludes Friday 03 June
Mid Year Examinations Tuesday 06 June to Friday 24 June
Mid Year Recess Monday 27 June to Friday 22 July
Semester 2 commences Monday 25 July
Semester 2 Recess Monday 26 September to Friday 07 October
Semester 2 resumes Monday 10 October
Semester 2 concludes Friday 04 November
End of Year Examinations Monday 07 November to Friday 25 November

# 5 REASONS

## TO CHOOSE THE UNIVERSITY OF NEWCASTLE AUSTRALIA

**1 People who study here do well**
We produce self-confident, well-equipped, 'job-ready' graduates. Employment rates and starting salaries for University of Newcastle graduates are higher than the national average.

**2 We are hands-on and responsive in the way we teach**
Our degree programs focus on both academic and professional training. You will be taught in a variety of methods and can gain real-life experience from field excursions and long-term work placements.

**3 We provide a great environment for study**
We have a student population of more than 28,500, including some 6,000 international students from more than 80 countries. Our campuses at Newcastle, and the Central Coast are all set in bushland settings and are close to some of Australia's most beautiful beaches.

**4 This is a place of opportunity**
Whether you want to broaden your mind, advance your career, increase your knowledge, travel the globe or change the world, the University of Newcastle can provide you with the opportunity and real life skills to do it.

**5 World class research is done here**
The University sits in the top 10 universities in Australia, in terms of our research funding performance. The University of Newcastle has been ranked as one of the world's top 100 universities for engineering technology and computer sciences. (Shanghai Jiao Tong University Academic Ranking 2007)

# CONTENTS

# OUR REPUTATION

**Our graduates are prepared for working life and earn above average starting salaries.**

**The statistics say it all**

- 82% of our Bachelor degree graduates aged under 25 typically find employment within four months of completing their degree. This is above the national average.
- 100% of our graduates in the fields of building, civil engineering, mechanical engineering and mathematics gain full-time employment within four months of completing their degree.
- The University of Newcastle has some of the highest graduate starting salaries in Australia. The median annual starting salary for our Bachelor degree graduates aged under 25 is AUD 42,000. This is above the national average of AUD 40,800.
- More than 75% of our programs are accredited with governing bodies or industry organisations and associations. This provides you with opportunities for professional membership and accreditation – adding even further stature to your qualifications.

Source: Australian Graduate Survey 2006

**We're internationally recognised**

Many of our degrees are recognised internationally, giving graduates the opportunity to enjoy successful careers overseas. University exchange programs support our students to gain relevant international experience while completing their degree programs.

**Education of professionals**

The education of professionals at the University of Newcastle includes both a focus on education in the professions and ensuring that all our graduates have professional knowledge, skills and attitudes. We have a proud history of education of the professions such as medicine, architecture, engineering and law, and pioneered many of the teaching methods now used in universities across Australia. Graduates of all our programs leave with a professional outlook and a career ready profile.

# RANKINGS

- **Ranked 375th university in the world**
  (Shanghai Jiao Tong University Academic Ranking 2008)
- **Ranked 61st university in the Asia-Pacific**
  (Shanghai Jiao Tong University Academic Ranking 2008)
- **One of the world's top 100 universities for engineering / technology and computer sciences**
  (Shanghai Jiao Tong University rankings by field 2007)

**Many of our degree programs offer the opportunity for practical, hands-on experience, internships and projects within the local community. This is why our graduates are in demand.**

In the competitive area of law, University of Newcastle graduates are sought after for their practical training and understanding. Our law students graduate with considerable real-life experience, gained through community work and by providing legal services in the University of Newcastle Legal Centre.

Our teaching degree programs are well respected and our graduates have secured positions in both public and private schools as well as overseas. We provide opportunities for practical placement early in your degree program.

The quality of our architecture degree program and final-year student exhibition means most of our architecture students are approached by employers before they graduate. Student designs are based on real projects and are exhibited to employers in Sydney and Newcastle.

Final year exhibitions of the design and natural history illustration program are also successful vehicles for promoting our graduates.

Science and information technology students graduate with hands-on experience and exposure to real world problems. Our respected researchers introduce students to the fundamentals of their discipline, as well as to cutting edge technology and innovation.

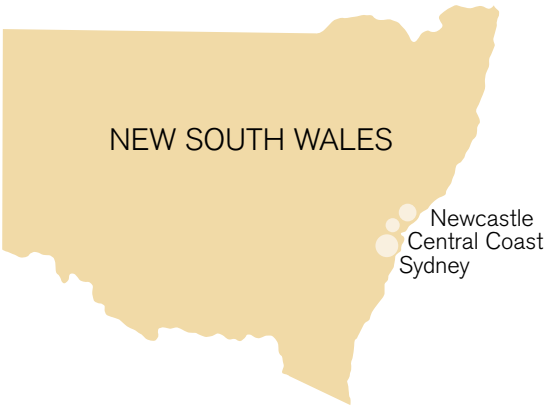
We provide strong, practical-based health sciences degree programs with placements in a variety of clinical settings including hospitals, clinics and private practice. Coupled with staff who are well respected within their professions, this ensures that our graduates are in high demand and secure meaningful and satisfying careers.

**Academics – on the ball**
Our academics keep pace with workplace demands, and ensure students are 'work ready' and in touch with what's expected in a professional environment. We offer ongoing education and training to our teaching professionals.

# CALLAGHAN


TRAIN STATION
THE UNIVERSITY OF NEWCASTLE
THE WETLANDS
THE BEACHES




| | Newcastle | Central Coast | Sydney |
|---|---|---|---|
| **Newcastle** | | 70km<br>50min | 150km<br>2hrs |
| **Central Coast** | 70km<br>50min | | 80km<br>1hr 10min |
| **Sydney** | 150km<br>2hrs | 80km<br>1hr 10min | |

Approximate distances (km) and travel times by road.

# A PLACE OF OPPORTUNITY

**The city of Newcastle is situated on the east coast of Australia approximately two hours drive north of Sydney. It is the second largest city in New South Wales and the sixth largest city in Australia.**

Set on a breathtaking stretch of Australia's Pacific Ocean coastline, Newcastle is the only city in Australia where the central business district is positioned simultaneously on the beach and the harbour waterfront. The port entrance is home to Nobby's Lighthouse and the Breakwater, both iconic imagery of Newcastle.

Newcastle's harbour waterfront is a popular recreation and leisure area for locals and visitors. The Queen's Wharf restaurants and the foreshore parkland together with the 50 hectare Honeysuckle waterfront redevelopment provide a five kilometre stretch of waterfront attractions.

Newcastle boasts some of Australia's best beaches and waterways for swimming, surfing, sailing and other water sports. Nearby Lake Macquarie, the largest coastal saltwater lake in Australia and four times the size of Sydney Harbour, is a short drive from the city.

Visitors to the foreshore can sit and relax while watching the busy harbour traffic of both recreational and commercial sea craft. The harbour is edged by large expanses of parkland, where people gather for picnics, bike rides, roller blading, jogging, or simply flying a kite.

With a regional population of about 500,000, Newcastle supports a thriving business and commercial sector and an excellent network of health care and educational facilities. Combined with a low cost of living and a favourable climate, Newcastle presents a relaxed and welcoming lifestyle.

Newcastle offers you a coastal landscape, surf beaches, a working harbour, historic sites, the arts and a vibrant nightlife. The Civic Cultural Precinct is where you'll find the Newcastle Regional Museum, Art Gallery, Civic Theatre, Civic Playhouse and the University's Newcastle Graduate School of Business (NGSB). The Newcastle East conservation zone covers an entire inner city neighbourhood and was set up to preserve some of the best of the city's architectural heritage.

A little further up the road is the lookout at Bar Beach. As the highest point in the city, the lookout is a favourite haunt of hang gliding enthusiasts.

Only 10 minutes drive from the city, visitors can get up close and personal with some of Australia's unique and beautiful wildlife. Blackbutt Reserve hosts spacious modern facilities which allow close viewing of a variety of animals such as kangaroos, koalas, emus, wallabies, wombats and a signify cant array of Australian birds. It's also a great spot for a barbecue.

# CLIMATE

Students on our campuses enjoy a temperate climate with warm to hot summers and mild winters.

**Summer**
December to February
20 – 28°C (68 – 83°F)

**Autumn**
March to May
14 – 26°C (57 – 79°F)

**Winter**
June to August
9 – 18°C (49 – 64°F)

**Spring**
September to November
15 – 25°C (59 – 77°F)

Newcastle is home to some of the best entertainment venues on Australia's east coast and offers many of the usual city comforts – restaurants, cafes, parks and gardens, theatres, art galleries, shopping centres and nightclubs. It has built a solid international and domestic reputation for the wealth of talent radiating from the city. From annual cultural activities such as the *Shootout Film Festival* and the *This Is Not Art exhibition*, Newcastle boasts a vibrant artistic and creative scene, attracting attention worldwide.

Newcastle also hosts the *Maritime Festival*, as well as *Surfest* which annually attract tens of thousands of visitors from the Hunter region, Sydney, the Central Coast and the North Coast.

In 2004 Newcastle celebrated its 200th birthday. Today Newcastle is a thriving cosmopolitan city with a relaxed coastal lifestyle, vibrant cultural life and civic pride.

# LIVING COSTS

It is estimated that a single international student requires a minimum of AUD 14,500/ year (or AUD 7,250/ semester) for living expenses – accommodation and meals, incidentals, entertainment and local transport. This does not include any allowance for costs associated with a student's spouse, partner or dependant(s).

Furthermore, it should be noted that any school age dependants accompanying students to Australia will be required to pay full fees if the dependant(s) enrol in a government or non-government school.

Students should also have additional funds to pay for initial establishment costs, textbooks and, where applicable, special equipment, transportation and temporary or additional accommodation. For example, medical students will need special equipment; and nursing, health sciences and education students may need an extra allowance for travel and temporary accommodation for some practical placements.

A list of approximate weekly living costs covering rent, food, etc can be found at: www.international.newcastle.edu.au/commencing/livingcosts.html

# PART-TIME EMPLOYMENT

As an international student holding a student visa, the Australian Government allows you to work part-time for a maximum of 20 hours per week during semester and unlimited hours during semester breaks and vacation periods. Dependant family members who have accompanied you to Australia may also apply for permission to work.

In order to work part-time, you must first commence your studies and then apply to the Department of Immigration and Citizenship for Permission to Work. You can do this online, and there is an application fee of AUD 60.

For more information, please visit:
http://www.diac.gov.au/students/students/working_while_studying/index.htm

**Careers Service**
The University of Newcastle offers support to all students who are seeking part-time employment during their studies or full-time employment after graduation. The University's Careers Service provides students with a range of free services including:

**Preeti**

Home Country **Singapore**
Program **Bachelor of Speech Pathology**

**Where are you currently working?**
As a waitress at an Indian restaurant in Newcastle. I have worked there for 12 months.

**On average, how many hours do you work per week?**
15 hours per week.

**How did you get your job?**
I dropped off my resume at the restaurant and the manager contacted me for an interview.

**What are the highlights of your job?**
Interacting with the customers. It's always something different – not mundane like other jobs.

**Does the money you earn from this job assist you with your living costs in Newcastle?**
Definitely!! I use the money I earn for some of my living costs.

**Shayne**

Home Country **The Philippines**
Program **Bachelor of Nursing**

**Where are you currently working?**
Warabrook Aged Care Nursing Home and Hostel and Kara Nursing Home and Hostel. I work as a Care Service Employee.

**On average, how many hours do you work per week?**
I work 20 hours per week during semester, but during holidays I work full-time.

**How did you get your job?**
I dropped my resume into the facility, and had an interview. I was offered work at two hostels.

**What are the highlights of your job?**
It is fun and I am enjoying my work. The main thing is that my job is related to my program and it is very helpful for me in gaining more knowledge and earning money. I am improving my English too, because I really need to have good communication with my co-workers, and the residents.

- Workshops addressing topics such as interview skills, career planning, job search strategies and resume writing
- Individual interviews with a Careers Counsellor to discuss career choice and career planning
- Mailing lists and databases of job vacancies for students seeking part-time employment during their studies or a full-time graduate position.

In addition, the Careers Service runs an annual Careers and Employer Expo. The number of employers and professional organisations involved in the Expo continues to grow every year. The Expo offers you:

  - The opportunity to meet valuable professional contacts in an informal environment
  - Insight into your future career path
  - Insight into what your future employers are looking for in graduates

There are also separate careers events for students in the Faculty of Education and Arts and the Faculty of Health.

For more information about the University's Careers Service, please visit: http://www.newcastle.edu.au/service/careers/index.html

## HINTS AND TIPS!

- Always follow the Department of Immigration and Citizenship's regulations regarding part-time work.
- Remember to bring relevant documents with you to Australia that you may need to apply for part-time work, such as reference letters from previous employers.
- Your ability to find part-time work will rely on a range of factors, including your English language ability and your own motivation to actively search for work.
- Part time work opportunities are limited and you should not rely on employment to supplement living expenses in Australia.
- Rates of pay for part-time work in Australia are standardised with little variation between cities.

# OUR CAMPUSES

**The University of Newcastle has two main campuses: Newcastle (located at Callaghan) and Central Coast (at Ourimbah). Both campuses are within 20 minutes of beautiful beaches and regional centres.**

**Newcastle**
Newcastle includes Callaghan campus and University House located in the heart of the central business district of the city. Callaghan campus has a reputation as one of the most naturally beautiful campuses in Australia. Located on 140 hectares of natural bushland, it is close to the city, yet provides peaceful bushland surrounds.

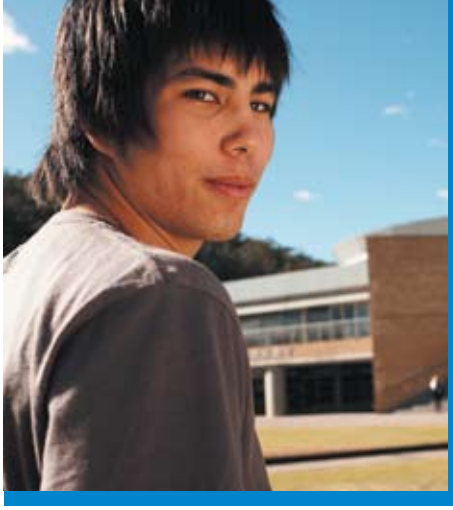
University House is home to Newcastle Graduate School of Business and the University of Newcastle Legal Centre, and is situated in the city's arts and legal precinct. Newcastle campus has fantastic sporting facilities. The Forum Sports & Aquatic Centre includes a 50 metre indoor heated pool, an 18 metre climbing wall, a fully equipped gymnasium, two martial arts/aerobics studios and two competition indoor courts for sports such as basketball and volleyball.

We're easy to get to – bus services come right on campus, the train station is within walking distance, and Callaghan is close to the freeway. Parking is available for a small daily fee or a discounted yearly rate. Many students also choose to car pool.

**Central Coast**
Our Central Coast campus at Ourimbah is less than an hour's drive from northern Sydney, and less than 15 minutes from beaches and bushland. Central Coast is a multi-sector campus and the grounds are shared by the University of Newcastle, TAFE NSW – Hunter Institute and the Central Coast Community College, along with local businesses. Nestled in a valley and featuring a beautiful rainforest creek, the campus is a living laboratory for environmental sustainability.

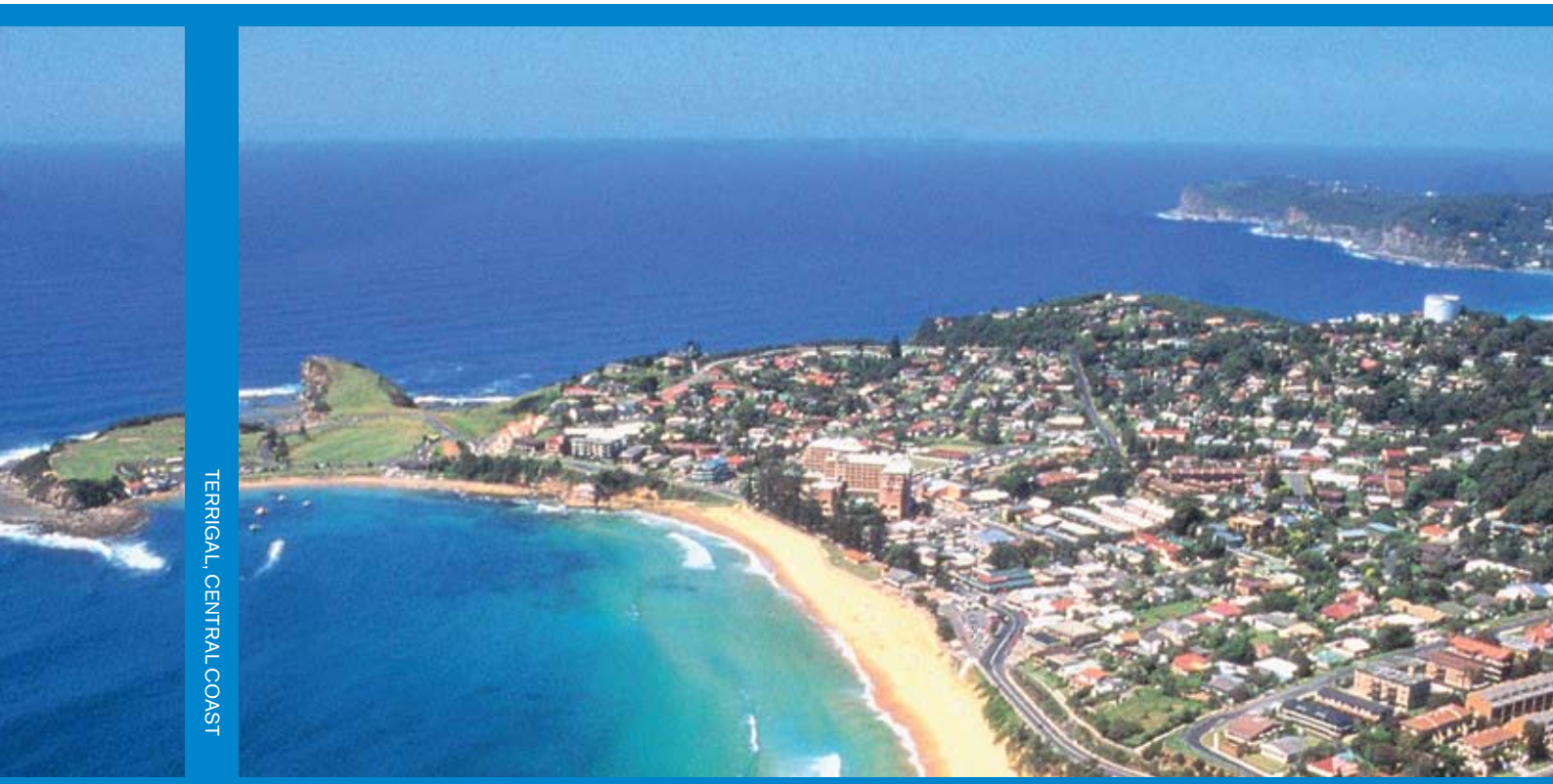
Within walking distance from the train station, the pedestrian friendly campus offers ready access to Sydney and Newcastle by train. Bus services provide direct access to the campus from surrounding suburbs. Situated close to the F3 freeway, the campus is easily accessible by car, and there is ample, free parking on the grounds.

There are a variety of courses offered only at the Central Coast such as oral health, podiatry, early childhood teaching, management, food science and human nutrition as well as majors within the science degree program of sports science, marine science and sustainable resource management.



CENTRAL COAST CAMPUS

# THE CENTRAL COAST EXPERIENCE



TERRIGAL, CENTRAL COAST

# OURIMBAH

Located on the picturesque Central Coast approximately halfway between Sydney and Newcastle, the Ourimbah campus is just over an hour's drive by car from Sydney yet less than 15 minutes drive from sparkling beaches and lush forests. Our Ourimbah campus appeals strongly to international students seeking to blend rigorous study with a relaxing lifestyle.

A pedestrian-friendly campus, its architecture pays homage to tradition yet is distinctly contemporary. Nestled in a valley and with a rainforest creek flowing through it, the campus is a living laboratory for environmental sustainability.

Located within walking distance of the main east coast railway line, the campus offers ready access to Sydney and Newcastle.

Train travel is a comfortable alternative for travelling to the campus, Sydney or Newcastle, while regular bus services provide direct access to the campus from the surrounding suburbs.

The Central Coast provides a shopping experience that compares favourably to that of the capital cities, with its large shopping malls offering not only boutique fashion shops but major national retailers, cinemas, restaurants and coffee shops.

For those pursuing a healthy lifestyle, the Central Coast offers a variety of recreational clubs with excellent sporting facilities. Ten minutes drive from campus is Mingara, one of the Central Coast's largest clubs and sporting complexes, boasting its own athletics' track and an indoor fitness facility including a fully equipped gymnasium and heated 50 metre Olympic pool.

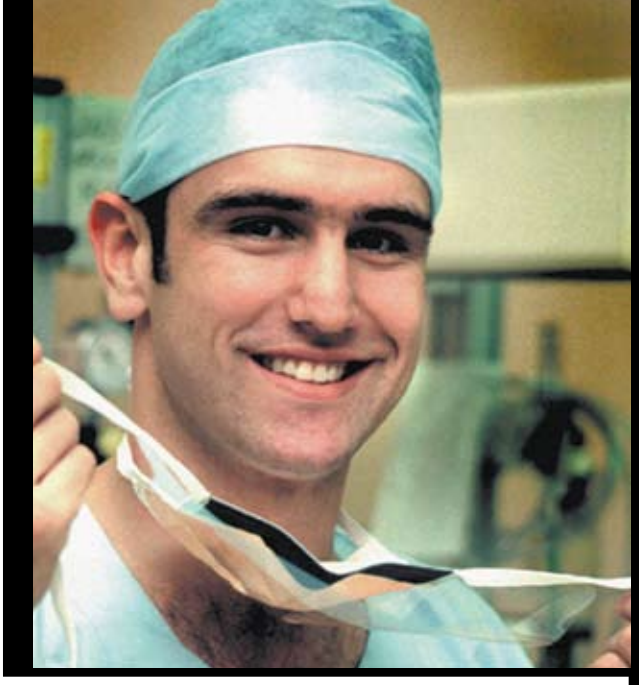
The Central Coast's abundant natural attractions provide a perfect backdrop for tourism. With its unspoilt sandy beaches and tranquil waterways, the seaside haven of the Central Coast offers diverse attractions including the unique Australian Reptile Park, an interactive collection of many of Australia's bush and native animals.

The opportunity to feed the pelicans at The Entrance adds further to the distinctly Australian flavour of the Central Coast.

Gosford, the largest city on the Central Coast, is the centre of the region's cultural venues hosting the Regional Gallery, the Gosford Edogawa Commemorative Gardens and live theatre. Central Coast resident and internationally acclaimed landscape photographer, Ken Duncan, found his initial inspiration in the local area and has established a gallery on the Central Coast to share his spectacular views of the world.

Studying at Ourimbah puts you in touch with an enviable Australian lifestyle that enhances your study experience. Our unique lifestyle advantages coupled with a dedicated and friendly teaching staff, a state of the art campus and an idyllic environment ensure that your time with us will be richly rewarding.

**An idyllic study environment close to the excitement of Sydney but with the security and relaxation that comes only within a rural setting is the essence of the University of Newcastle's Ourimbah campus.**



# WE ARE HANDS-ON AND RESPONSIVE IN THE WAY WE TEACH

**We are hands-on and responsive in the way we teach. Many of our degree programs deliver real work experience and industry placements.**

**Learning experience in a competitive environment**
We encourage our students to enter competitions and take part in initiatives to enhance their learning experience. This means you will have opportunities to gain recognition of your skills and add to your resumé while you are studying.

**NUManoids – World beaters**
The University NUManoids are the first world champions of the new Standard Platform League at the 2008 RoboCupcompetition, held in China. The NUManoids beat a combined American team from Carnegie Mellon University and Georgia Tech in a penalty shootout to take out the final.

The University of Newcastle teamed up with the National University of Ireland to form the NUManoids and program the recently released Aldebaran Nao robot.

The Standard Platform League replaced the Four-Legged League, in which the University of Newcastle reached international fame for its success with the soccer playing robotic dogs, the NUbots, who won the World RoboCup Championship in 2007.

Only the 16 most experienced teams from around the world were invited to compete in the new league. Newcastle was one of only two Australian teams.

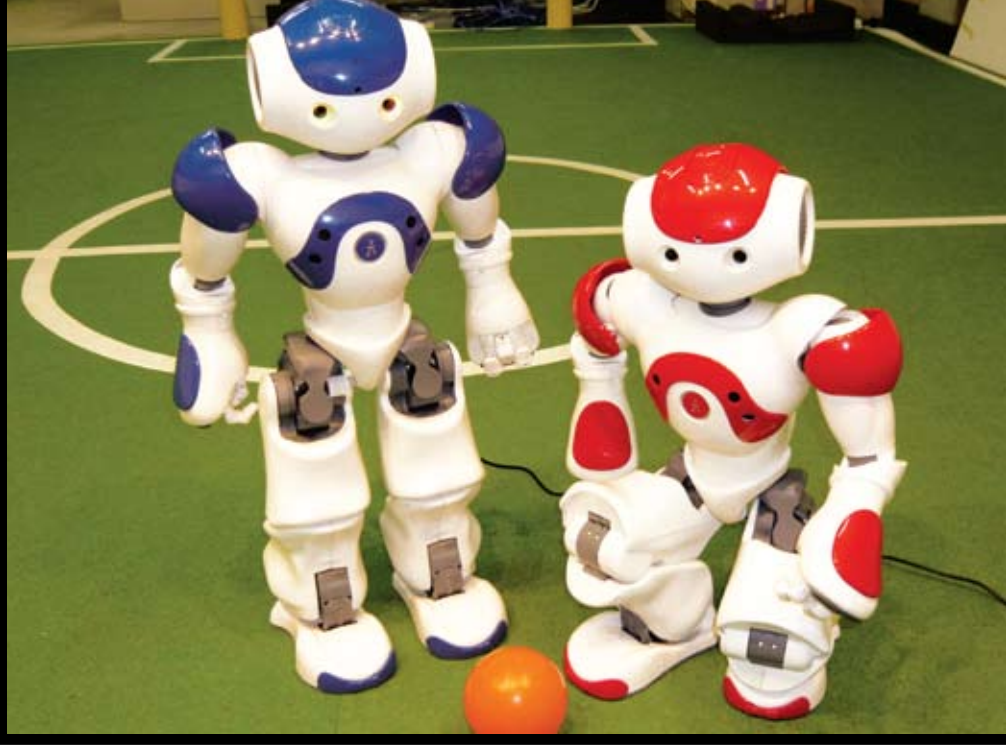
In the new Standard Platform League, the soccer game is played in 10 minute halves. Each team has three robots on the field including the goalkeeper. A substitute is available on the sidelines in case of injury.

The ultimate aim of the NUManoids is to develop and program robots that can support humans with routine, as well as dangerous and expert tasks.

**Law: A moot point**
We provide hands-on opportunities for law students to excel in legal arguments. Students from the University of Newcastle argued their way into first place to win the Sir Harry Gibbs National Constitutional Mooting Competition held in Melbourne.

**Watt Space galleries**
Watt Space is a contemporary art space in the Newcastle CBD that exhibits work from current University of Newcastle students. Students gain hands-on experience in all aspects of exhibiting, curating and gallery management. Responsibilities include printing and mailing invitations, writing and distributing press releases, organising catering, paying rent and attending meetings with the gallery director and other exhibitors.

Students are also involved with the School of Fine Art Gallery on our Newcastle campus, which hosts national and international exhibitors.



**On-campus training**
Much of the practical training provided by the University of Newcastle takes place inside purpose-built facilities and is designed to replicate industry situations.

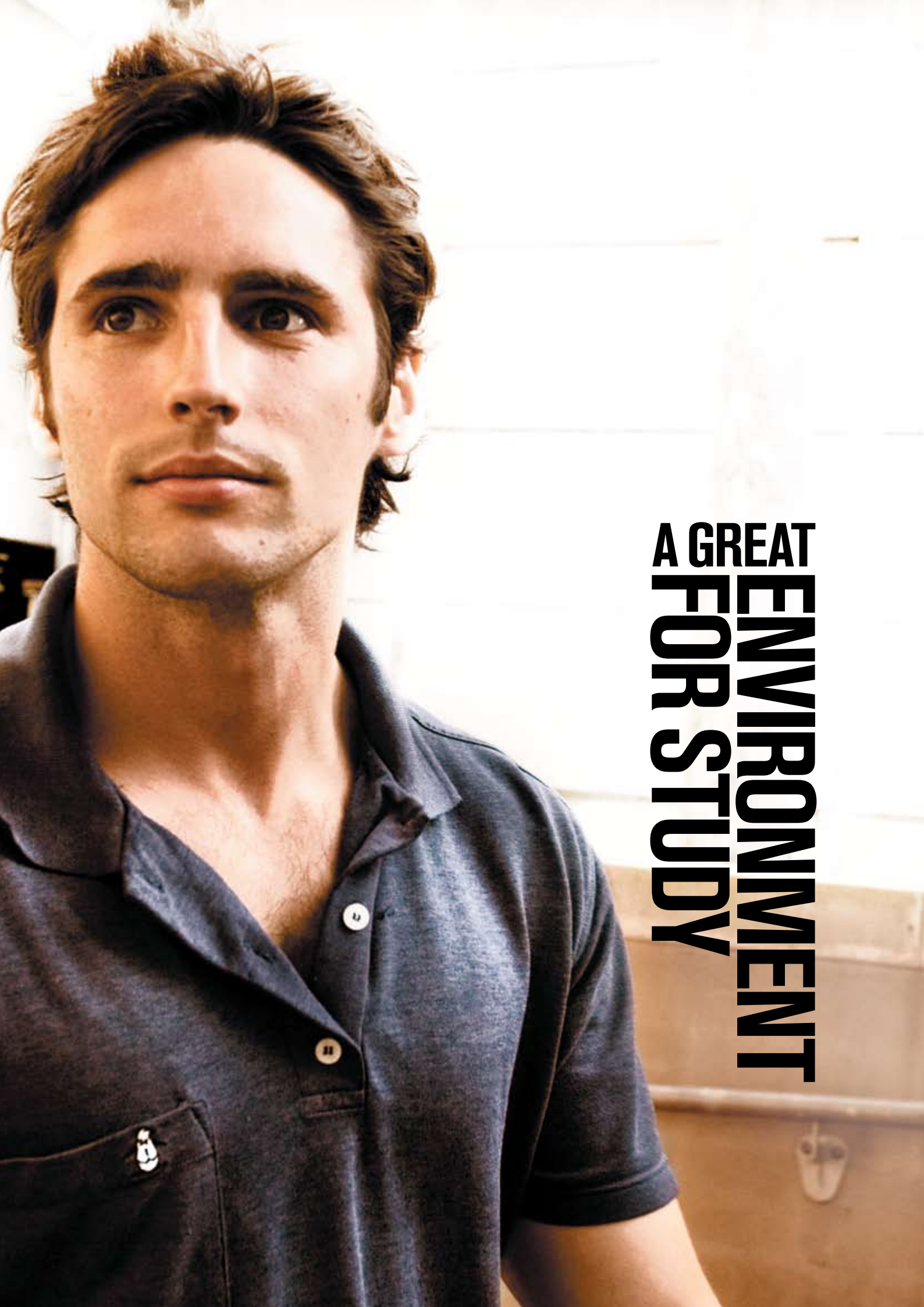
For instance:

- Our Central Coast campus has a purpose-built dental clinic, in which students provide free dental check-ups including cleaning and x-rays for other students under qualified supervision.
- Students studying communication, information technology or visual communication design have access to state-of-the-art facilities in the recently developed Information Communications Technology building, using sound and television studios, editing suites and the latest computer equipment. Students have the opportunity to produce quality short films, recordings and even music videos.
- The University's Conservatorium of Music features a 500 seat concert hall, four concert grand pianos, 40 teaching and practice studios, and several early music instruments such as harpsichords. This facility also boasts a recording studio and music technology laboratory. Students can join the award-winning University of Newcastle Chamber Choir, symphony orchestra and the wind orchestra and be tutored by our staff, many of whom are performers with international reputations.
- Students at the Central Coast campus completing an early childhood program use Yerra Early Childhood Studies Centre. Yerra is shared by students and staff from the University and TAFE NSW – Hunter Institute Early Childhood programs. Students learn to interact with young children and undertake research and practice teaching at Yerra.

**Real experience while you study**
In many cases, work experience is an assessable component of our degree programs and gives graduates a competitive edge when entering the workforce.

Examples include:

- All programs offered by the Faculty of Health include assessed clinical experience. Placements are conducted in public hospitals all over NSW.
- Education students gain valuable classroom experience throughout their degree – culminating in a 10-week internship in either a secondary or primary school.
- Fine art students are given opportunities for solo exhibitions, and internships are offered at the Art Gallery of NSW.
- Engineering students complete a year-long project, in many cases in conjunction with industry partners. They also complete 12 weeks of industrial experience.
- Science students take part in problem-based learning, field trips, excursions, seminar presentations and workshops.
- For programs where work experience is not included, our University Careers Service helps students secure summer vacation work placements.



# A GREAT ENVIRONMENT FOR STUDY

**We offer a range of options to help you balance study with your work, family and social commitments.**

We provide the following free services to help make your study easier:

**Computing facilities**
We provide every student with an email account and access to Internet services through our libraries as well as at home, through our dial-up network. Sections of Callaghan campus are wireless zones. This means you can bring a laptop and sit outside and work on your assignments, surf the web, or check your emails.

Computing facilities at the University are provided via a high-speed optical fibre network and include the University Information Network (based on an FDDI fibre ring with ethernets in all major buildings) which also gives access to the Internet.

**Lectopia**
If you're worried about missing lectures or don't want to miss any important information, Lectopia may well come to your rescue. In many courses, lectures are recorded as they are given, then uploaded to the web a few hours later. You can use the recordings to catch up on missed lectures or as a revision resource for exams.

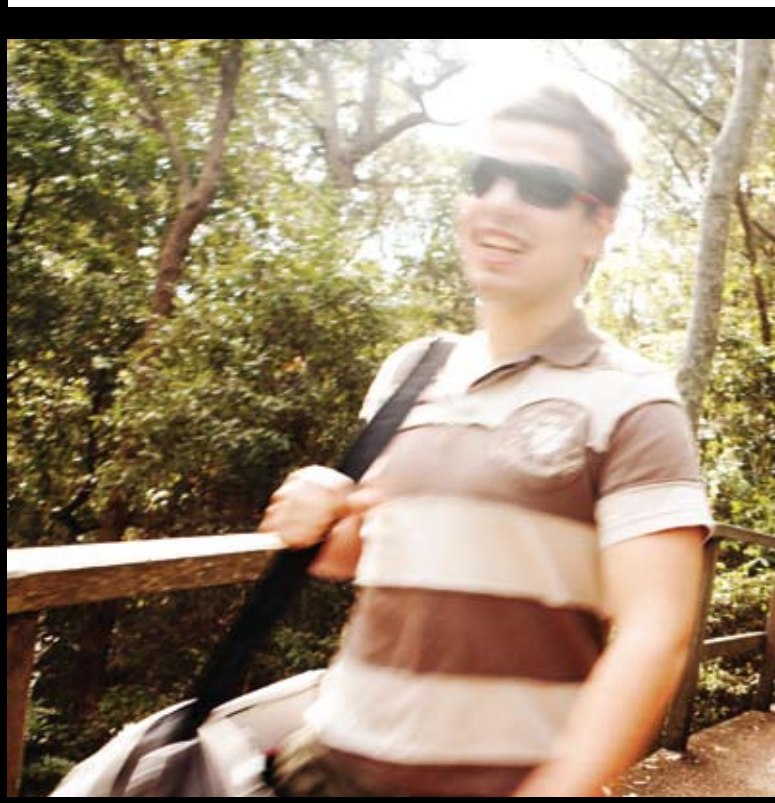
**Blackboard**
Blackboard is an online student support system that enables you to submit assignments and view your progress and final marks. You can receive assignment tips, discuss assignments on the discussion board with fellow students, view lecture and tutorial notes and gain answers to tutorial questions.

**Student Hubs**
Visit our Student Hubs to find all the help you need to do with admissions, enrolments, exams, assignments and program related matters. There are student Hubs at Newcastle's Callaghan campus, Central Coast campus and University House in the Newcastle CBD.

The Student Hubs provide a one-stop shop for you to access essential student services. Each Hub offers a place for you to work on, submit and collect your assignments, meet friends, buy something to eat and get advice and referrals from trained staff about issues relating to your studies.

Along with computer access and café/lounge areas, the Hubs provide: student ID cards, parking permits, transcripts and basic information technology support. Graduation, fees, scholarships and prizes are all dealt with here too. The Hubs are designed to provide all student services in the one location.

For more information go to:
www.newcastle.edu.au/students/hubs/



# CAMPUS

**The buzz on campus**

Servicing over 20,000 students and staff, the University's Newcastle campus has a thriving suburban atmosphere. Public transport is convenient, buses are regular and we even have our own train station. You'll find banking facilities, cafeterias, Subway, Gloria Jeans Coffee, bars, a travel agency, post office, bookshop, building society, gift and stationery shops, day spa, dentist and a hairdresser all on campus and close at hand.

The Central Coast also has cafeterias, bookshops and stationery supplies.


**Make new friends easily**
Meet new people and make lifelong friends through the 85 sporting and social clubs and societies available at the Newcastle campus, and 24 clubs and societies at the Central Coast campus. Try a sport you have never played like ultimate frisbee or fencing, or take on activities such as scuba diving or mountaineering. If your interest is more cultural or social you could join the Medieval Combat Club, various political groups, religious and spiritual groups, faculty clubs, Uni Choir, Classics Society or the Mature Age Club.

Visit www.newcastle.edu.au for more information. A list of clubs and associations can be found on page 29 of this brochure.

**Student mentors**
The University provides a range of services to help you adjust to life on campus and make the most of your experience. You can be assigned a mentor to show you the ropes and you can attend seminars on study skills.

Immerse yourself in all that university has to offer and enjoy the journey.

**Student Associations**
The Newcastle University Students' Association (NUSA) at our Callaghan campus and the Central Coast Campus Union (CCCU) represent members to the University, government and other bodies outside the University. Services include student advocacy, legal advice, student newspapers, computer access, photocopying, fax facilities and funding for clubs and societies.

**Orientation Week**
O Week is a fun, week long introduction to University life. It's a great chance to find your way around campus, make new friends, explore clubs and societies to join, check out the facilities, and participate in trivia or organised games. You can even cap off the week with live bands and the popular O Ball.

**Religious Facilities**

**The Chaplaincy Centre** is available to all students and is staffed by chaplains who are friendly and approachable. They are there to discuss anything of a spiritual, religious, ethical or personal nature and they also run regular discussion groups.

**The Muslim Students Association** at the University offers students a link with the local Muslim community. Students can make connections with the Newcastle Mosque, as well as find out where to find the best Halal food. The Callaghan campus also provides a prayer facility room for Muslim students and staff on campus. This facility is located at the eastern side of the campus, near the Hunter Building.

# OUR FACULTIES AND SCHOOLS

**The University of Newcastle is a comprehensive, international university and one of Australia's leading research institutions. It employs around 800 academic staff and offers undergraduate and postgraduate programs through five Faculties. For more information, visit www.newcastle.edu.au/faculty/**

**Faculty of Business and Law**

School of Law

School of Business and Management

Newcastle Graduate School of Business

School of Economics, Politics and Tourism

**Faculty of Education and Arts**

Wollotuka School of Aboriginal Studies

School of Drama, Fine Art and Music (incorporating the Conservatorium)

School of Education

School of Humanities and Social Science

**Faculty of Engineering and Built Environment**

School of Architecture and Built Environment

School of Engineering

School of Electrical Engineering and Computer Science

**Faculty of Health**

School of Biomedical Sciences

School of Health Sciences

School of Medicine and Public Health

School of Nursing and Midwifery

**Faculty of Science and Information Technology**

School of Design, Communication and Information Technology

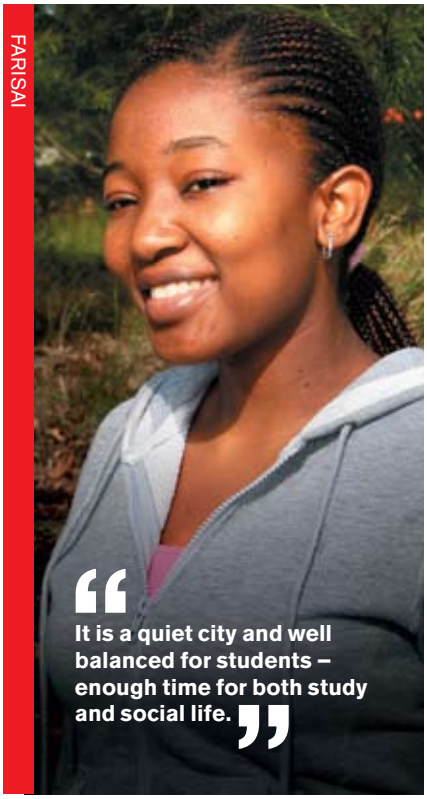
School of Environmental and Life Sciences

School of Mathematical and Physical Sciences

School of Psychology

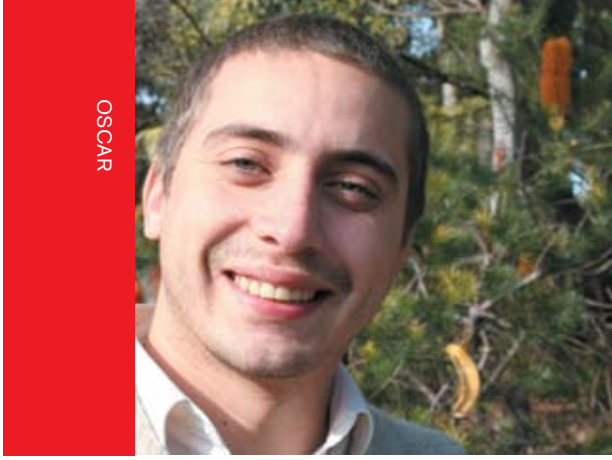
AIJA

**I live a block and a half from the beach – I can swim everyday in summer! I am also learning to surf and I enjoy running and cycling along the beaches and foreshore.**



FARISAI

**It is a quiet city and well balanced for students – enough time for both study and social life.**



OSCAR

**Studying in Newcastle has been a great experience – it's a beautiful city, with the beaches and the warm weather. It's not as expensive as Sydney.**

# OUR STUDENTS

## Aija – Age 24

**Home Country** Canada
**Program** Bachelor of Teaching / Bachelor of Arts

**What do you like most about Newcastle?**
The beaches! The friendly people! It's a really nice size city. Not as busy as Sydney but still really close if I want to go down for the day. I live a block and a half from the beach – I can swim everyday in summer! I am also learning to surf and I enjoy running and cycling along the beaches and foreshore.

## Farisai – Age 19

**Home Country** Zimbabwe
**Program** Bachelor of Biomedical Science

**What would you tell your friends at home about studying in Newcastle?**
If you are a person who easily gets distracted by things happening around you (the outside world) then Newcastle is the best place for you; quiet during the day and alive at night, plus beautiful beaches. It has good weather – hardly ever at the extremes. It is a quiet city and well balanced for students – enough time for both study and social life.

## Oscar – Age 25

**Home Country** Chile
**Program** Bachelor of Business / Bachelor of Commerce

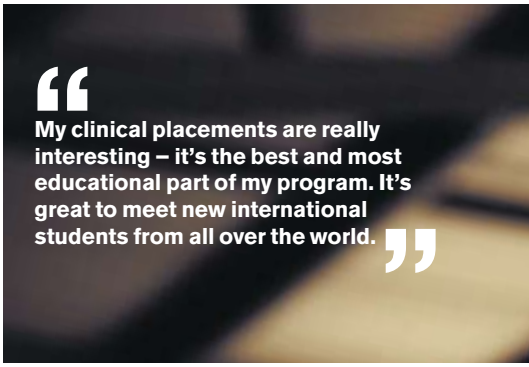
**Why did you choose to enrol in this degree program at the University of Newcastle?**
I started in the International Foundation Program, as I didn't qualify for direct entry to the University and I decided it was a good way to familiarise myself with the Australian university system. I have lived all my life in big cities and I wanted to live in a small town for a change. Studying in Newcastle has been a great experience – it's a beautiful city, with the beaches and the warm weather. It's not as expensive as Sydney.




TZE KIAT (T.K.)

PEI-CHUN (PEGGY)


AMAN




### Tze Kiat (T.K.) – Age 25

**Home Country** Singapore
**Program** Bachelor of Engineering (Chemical)

**Why did you choose to enrol in this degree program at the University of Newcastle?**
My friend recommended that I come here. The research in this field (Chemical Engineering) had been known to me back in Singapore. Also, this degree is able to provide me with better job opportunities anywhere in the world. The school fees are fairly reasonable as well. I even got to join a student society called International Newcastle Singaporeans (INS)!

### Pei-Chun (Peggy) – Age 21

**Home Country** Taiwan
**Program** Bachelor of Nursing

**Why did you choose your degree program?**
Because I had been studying Nursing in Taiwan for a five-year diploma degree to get me RN licence, I wanted to experience the different system of nursing here in Australia. Speaking with the patients has helped me improve my English, and Newcastle is a wonderful place for studying – very relaxed and comfortable.

### Aman – Age 21

**Home Country** India
**Program** Bachelor of Nursing

**What would you tell your friends at home about studying in Newcastle?**
It’s a really good university and the staff are good, so caring, helpful and friendly and the services are quick. My clinical placements are really interesting – it’s the best and most educational part of my program. It’s great to meet new international students from all over the world.

# LEARNING FACILITIES

## UNIVERSITY LIBRARIES

The University libraries offer a wide range of materials in a variety of formats – from traditional books and serials to films, multimedia and networked information from around the world. Highly skilled staff assist students to use the local collections and find information on specific topics.

A library coordinator for international students offers specialist support.

Our libraries have a wide span of opening hours and the Auchmuty Library Information Common is open 24 hours a day offering first-level IT and scholarly information support.

The Information Common is a resource for students wishing to study for exams, complete assignments or balance studies and work. Students have ready access to PCs and Macs, print and copy facilities and stationery, and are also able to borrow and return books. There are vending machines and the Bytes Café where you can find drinks, snacks and freshly ground coffee.

**Auchmuty Library**
The Auchmuty Library is the University's main library and is located next to the Shortland Building on the Callaghan campus. It supports the teaching and research requirements of the disciplines of architecture, building, design, arts, humanities, social science, business, economics, commerce, information science, engineering, law, medicine, health science, psychology and science. The library holds more than 600,000 books, 7,000 serial titles, 20,000 audiovisual items and a substantial collection of Australian Bureau of Statistics publications.

**Huxley Library**
The Huxley Library in the Hunter Building on the Callaghan campus supports the disciplines of education, nursing and health science. The library holds more than 150,000 books and 1,250 serial titles along with a large audiovisual collection.

**Conservatorium Library**
The University Conservatorium Library in University House (site of the Graduate School of Business and across the street from the Conservatorium of Music) in the city of Newcastle holds more than 3,700 books, 78 serial titles, 33,000 musical scores and 4,500 recordings in a specialist musical collection focusing on classical European and Australian contemporary music.

# STUDENT SUPPORT

**Learning Support Program**
Learning advisers can offer students additional support to make the most of their university studies. We do this in several ways. We run workshops and individual consultations in academic skills such as essay writing or referencing. We provide maths and numeracy support in small groups and access to a Maths Learning Space and a maths diagnostic test. International students can attend workshops specially designed to assist with language and academic skills and take a voluntary diagnostic language test. Students in Foundation courses or Newstep can obtain assistance from a learning adviser who specialises in working only with these groups. We also provide a Collaborative Learning Space, a room which students are able to book to work together in small groups. If students only want to look at our resources, they can go to our Blackboard site to down load useful material. All of our services are free and available to all students. To make an appointment with us is easy using the on line registration system.

Studying at an Australian university is an exciting and worthwhile experience but you need to be aware of the expectations put upon you by lecturers and tutors.

All of your interactions will be in English and even a score of 6 IELTS will not prepare you for the demands of speaking and listening, writing and reading in an unfamiliar discipline. So your language learning will need to continue here in Australia.

Exams are used but they are only part of your assessment. Every 4 or 5 weeks you will have an assessment task to do; perhaps an essay or a report or a tutorial presentation and it will be marked.

There are no text books which contain the whole course. You may have a text book but you will need to read widely and take notes and gather your own information.

Your lecturers will ask questions but not necessarily give you the answers. You will be expected to find information and develop a point of view based on your reading and thinking.

Participation in your education involves more than just attending lectures and tutorials. You will be expected to contribute, to participate, to have opinions and to take part in discussions and give presentations.

Academic integrity is taken very seriously in our universities which means that you need to learn how to reference correctly and develop the ability to write using a referencing system recommended by your lecturer. These are important skills which you will need to learn and apply in every subject and in every assignment.

For more information go to: www.newcastle.edu.au/unit/ctl/lsp

**Counselling**
The University offers a counselling service to all students seeking assistance regarding personal problems, such as stress, interpersonal relationships, family difficulties and any problems associated with settling into life in Australia. Counselling is free and completely confidential.

For more information go to: www.newcastle.edu.au/service/counselling/index.html

**Welfare Service**
The International Student Support team at the Callaghan campus and the Student Support Unit at the Ourimbah campus assist international students with any practical or personal matters they may encounter in their new life in Australia, such as finding out about legal rights, managing financial difficulties and gaining access to medical and other community assistance. The aim is to offer sympathetic, confidential and practical help to all international students requiring

assistance in order to make their stay a rich and, academically and personally, rewarding experience.

For more information go to: www.newcastle.edu.au/internationalstudents/01university/facilities_services.html

**Students with Disabilities**
The Disability and Student Support Unit at the Callaghan campus and the disability support staff at the Ourimbah campus offer a wide range of services for students with a disability. The disability services include equipment, personal support, advice and information and advocacy and liaison.

For more information go to: www.newcastle.edu.au/service/disability/index.html

**Health Service**
The University's excellent medical service at the Callaghan campus specialises in student health needs. The health service provides medical care to students and the compulsory overseas student health cover meets the full cost of most consultations.

All consultations with the health service's doctors are confidential and students are encouraged to seek advice about any health matter. If necessary, students may be referred to a specialist, hospital or community care and may also seek the services of a private doctor or a specialist outside the University. In both these situations additional payment may be required. The Student Support Unit at the Ourimbah campus offers a referral service to all students seeking medical attention.

For more information go to: www.newcastle.edu.au/service/health/index.html

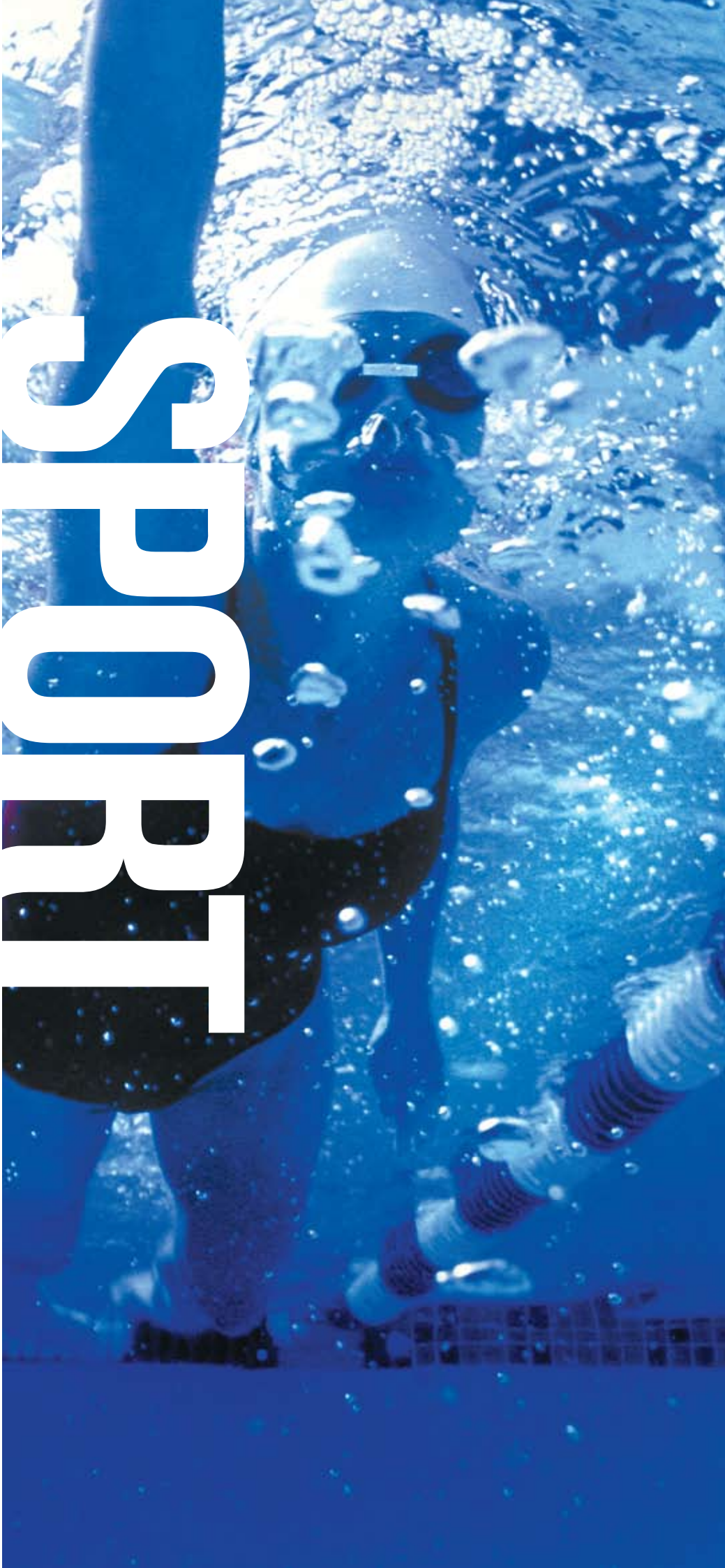
**University of Newcastle Union and Central Coast Campus Union**
The University's student unions are central to student life. Its members enjoy an array of facilities including cafeterias, coffee shops and bars, travel agency, post office, bookshop, credit union, gift and stationery shops and a hairdresser. Additionally, the University of Newcastle Union at the Callaghan campus and the Central Coast Campus Union at the Ourimbah campus organise many cultural and social events for all its members.

For more information go to: www.newcastle.edu.au/students/campus-life.html

**Newcastle University Student Associations**
The Newcastle University Student Association (NUSA) at the Callaghan campus and the Central Coast Campus Union (CCCU) at the Ourimbah campus represent their members to the University, government and other bodies outside the University. Membership of the relevant student association is automatic. The services provided by NUSA and CCCU include student advocacy, legal advice, student newspapers and computer access, discounted bus tickets, photocopying and fax facilities and funding for clubs and societies.

For more information go to: www.newcastle.edu.au/students/campus-life.html

# SPORT



**Newcastle University Sport (NUsport) – your health and fitness solution**
Newcastle University Sport (NUsport) is here to help make your Uni experience as enjoyable and memorable as possible. There are loads of exciting sporting, fitness and recreational activities that will help you make new friends, keep fit and have a whole load of fun! Students can take advantage of savings of up to 30 per cent on membership, Olympic pool use, group fitness classes, tennis, squash and sporting clubs like rugby and mountaineering.

Whether you are looking to stay active or try something new, NUsport offers students award winning health and fitness solutions from the convenience of The Forum Sports & Aquatic Centre at the University's Callaghan campus and The Forum Health & Wellness Centre at the Harbourside precinct in the heart of Newcastle. We look forward to welcoming you to a membership base that is built upon active minds and healthy bodies.

NUsport is proudly part of the Newcastle and Hunter region and actively contributes through its health and wellness solutions to the region's relaxed lifestyle.

**Healthy living**
The sports facilities on the Callaghan campus are amongst the finest of any university in the country and include:

- Six ovals (three of which are floodlit) used for sports such as cricket, rugby union, rugby league, soccer, baseball, gridiron, touch football, ultimate frisbee and archery
- Squash centre with five excellent courts for hire
- Tennis centre with eight (fully lit) courts for hire – four hard courts and four synthetic grass

**Convenient and contemporary facilities**
The University campus also includes award-winning facilities of The Forum Sports & Aquatic Centre featuring:

- 50 metre, eight lane indoor heated pool
- 18 metre indoor climbing wall
- Cardio Zone with the latest electronic equipment
- Cycle Zone
- Private Training Zone
- Large weights training area
- More than 80 group exercise classes each week
- Café
- High Performance Training Area

The Forum also opened its Health & Wellness Centre, Harbourside in October 2006. The state-of-the-art Centre provides the convenience of group fitness and gym facilities in the heart of Newcastle's CBD. The facilities include:

- Cardio Zone featuring treadmills with integrated entertainment facilities
- Express Zone with contemporary workout equipment
- Strength Zone
- Cycle Zone
- Over 60 group fitness classes each week

**Elite Athlete Friendly University program**
The University of Newcastle is a member of the national network of Elite Athlete Friendly Universities (EAFU). An elite athlete is someone who represents their state or country in their chosen sport. Athletes who compete at the highest club level in certain sports are also eligible.

The program encourages and supports athletes, enabling them to undertake higher education while continuing to train and participate in sport at an elite level. The program provides general support to students and can assist with:

- assessment needs
- timetable organisation
- attendance flexibility
- alternative exam arrangements
- cross-institutional study

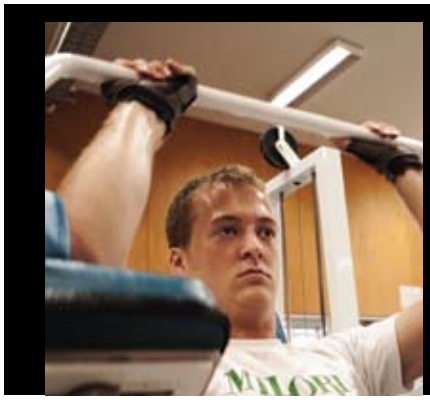
**Sporting clubs**
NUsport has a long and proud history of supporting many sporting clubs. These include:

- Archery Club
- Badminton Club
- Baseball and Softball Club
- Boat Club
- Cricket Club
- Fencing Club
- Gymsports Club
- Hockey Club – Men's
- Hockey Club – Women's
- Jujitsu Club
- Mountaineering Club
- N.U.D.E.S. (Newcastle University Dive and Exploration Club)
- Rugby League Club
- Rugby Union Club – Men's
- Rugby Union Club – Women's
- Soccer Club – Men's
- Soccer Club – Women's
- Squash Club
- Tae Kwon Do Club
- Ultimate Frisbee Club
- Underwater Hockey Club
- Volleyball Club
- Water-Skiing and Wakeboarding Club
- Waterpolo Club

**www.theforum.org.au**

**Social clubs and societies**
The University also offers students the opportunity to join any of our many social clubs and societies. These include:

- British Comedy Club
- Campus Christian Movement
- Combined Health Undergraduate Group
- Computer Gamers Society
- Democrats on Campus
- Generate – On Campus
- Medieval Society
- Newcastle Adventist Student Association
- Newcastle Campus Chinese Christian Initiative
- Newcastle Christian Students
- Newcastle University Gamers Society
- Starlight Foundation – Students' Club
- Surfside Evangelical Students
- Uni Choir
- Uni4Christ
- UNIS – Islamic Society
- United Nations Society of the University of Newcastle
- Uniting Church in Australia tertiary Students Association – Newcastle
- University of Newcastle Rural Health Club
- University of Newcastle Engineering Fraternity
- UNU Crew
- Utopium



# ARRIVAL

## PRE-ARRIVAL CHECKLIST

| | |
|---|---|
| ✔ | **Accept your Letter of Offer, pay your deposit (you will receive a COE) and finalise your student visa** |
| ✔ | **Decide: On-campus or off-campus accommodation?** |
| ✔ | **If choosing on-campus accommodation:**<br>**– Submit your application before the deadline**<br>**– Make a back-up plan if your application is unsuccessful (homestay or off-campus accommodation)** |
| ✔ | **If choosing off-campus accommodation:**<br>**– Book temporary accommodation for your arrival in Newcastle or the Central Coast, or arrange for a Homestay placement.** |
| ✔ | **Book your flights to Australia** |
| ✔ | **Book the Reception Service by contacting: international-support@newcastle.edu.au or +61 2 4921 8703** |

# AND ORIENTATION

**Orientation**
An important part of starting your student life is the Orientation program. Orientation takes place the week before each intake commences (that is, the week before your lectures and classes begin). It is a program of activities and information sessions designed to introduce new students to the social, cultural and academic aspects of University life. During Orientation, you will also receive a package of orientation materials containing campus and city maps, bus timetables, medical insurance information, advice on tax matters and other useful information.

**When to arrive?**
International students are advised to arrive in Newcastle or Ourimbah in the week before Orientation, to settle into their accommodation and to become familiar with their surroundings.

**Reception Service**
The University offers a Reception Service to all new international students. Most of the University's international students arrive in Australia at Sydney International Airport and then travel to Newcastle by air, train or bus, or to Ourimbah by train or bus.

The Reception Service offers free pick-ups for international students from Newcastle Airport and Newcastle train station. International students can also use the Reception Service to book an airport pick-up from Sydney International Airport, which is a door-to-door service to Ourimbah or Newcastle. Students pay for this service on arrival at Sydney International Airport. The cost is approximately AUD 60.

For more information and to book the Reception Service please contact: international-support@newcastle.edu.au / +61 2 4921 8703

**Coming to Newcastle and the Central Coast**
Most international students arrive in Australia at Sydney's International Airport and then make the journey to Newcastle or the Central Coast by air, train or bus. Along with several other New South Wales universities, the University of Newcastle runs a "Meet and Greet" booth at Sydney International Airport where students can obtain travel information and assistance.

The booth operates during peak student arrival times (February-March, June-July). Staff at the booth speak several languages and, if necessary, can put students in contact with the University.

**By Air to Newcastle**
Students who choose to fly from Sydney to Newcastle (approximately 30 minutes) should book their domestic flight at the same time as they book their international flight. Newcastle airport at Williamtown is about 35 minutes drive from Newcastle city centre or the University. Aeropelican and Qantas run flights to Williamtown. Baggage can be checked directly through to Newcastle at the domestic airline counters in the international terminal at Sydney.

**By Rail to Newcastle or the Central Coast**
Trains run regularly from Sydney's International Airport to Sydney's Central Station where trains depart for Newcastle or the Central Coast. The journey takes just over an hour to the Central Coast and about two and a half hours to Newcastle.

**By Bus to Newcastle or the Central Coast**
You can book an airport pick-up service online with Happy Cabby, who will bring you to Newcastle: www.happycabby.com/site/unibooking

The time for the journey between Sydney and Newcastle is approximately 3 hours and varies depending on the number of stops the bus makes en route. Similarly, it takes about 2 hours to travel by bus to Ourimbah from Sydney. This transport option is a good idea if you have lots of luggage and costs approximately AUD60 (Make sure that you have Australian currency). There is no need to leave Sydney's International Airport building if you are travelling by bus, as the bus driver will meet you at the McDonald's Restaurant and the Krispy Kreme shop inside the terminal near Gates A and B. You should remain in this vicinity while waiting for the bus driver to meet you.

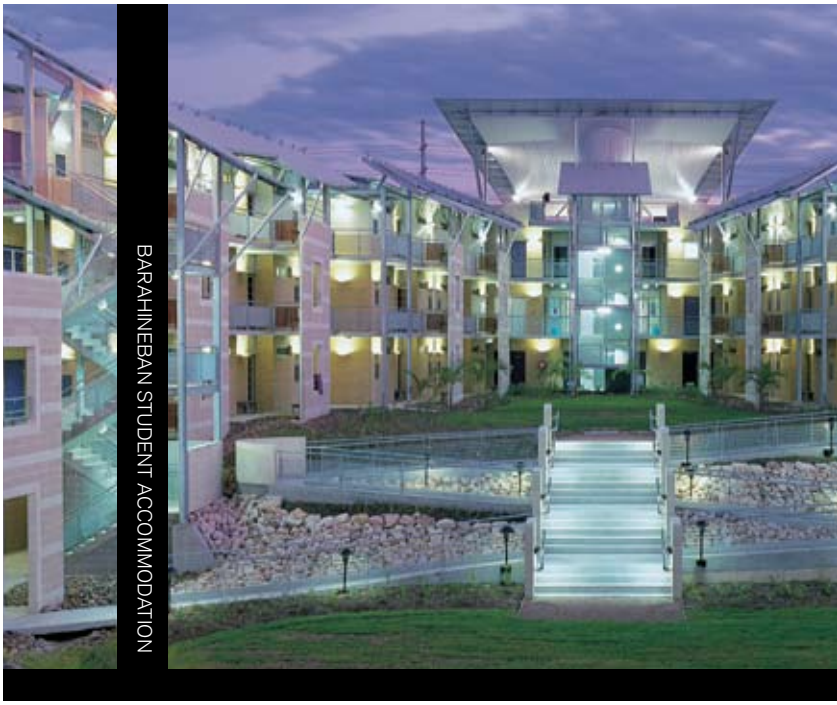
**Local Transport**
Travelling to and from the University is usually quick and easy. There is no heavy traffic congestion and no over-crowding on public transport. The campuses are readily accessible by bus or train and students are issued with bus and train schedules on arrival.

**Banking and Finance**
Students are advised to bring enough funds to cover initial expenses such as accommodation (rent, bond, utilities, furnishings), study materials, personal effects, food and transport. The International

Student Support team advises that newly arriving students carry AUD 200 in cash and AUD 1,000 in travellers' cheques. Currency exchange facilities are available at Sydney airports. Newcastle airports do not have money-changing facilities. On arrival in Newcastle or the Central Coast, it is suggested that students open an account at either the on-campus bank or Credit Union or at a bank close to their accommodation. This would allow them to arrange for additional funds to be transferred from overseas by international bank transfer. Credit cards are not usually issued to overseas students in Australia and, hence, it is suggested that international students consider opening their own credit card account before arriving in Australia. International credit cards, such as MasterCard, Visa and American Express, are accepted in Australia.

**Orientation and Enrolment**
A comprehensive Orientation Program introducing all new international students to the University is held before the beginning of each semester (or trimester). At Orientation, the International Student Support team at the Callaghan campus or the International Student Support Officer at the Central Coast campus will provide students with more information about the University.
They will assist students to register for medical insurance, explain the local transport system and guide students through the other procedures necessary
for their new life on campus and in Australia.

A package of orientation materials is given to each student. This contains campus and city maps, bus timetables, medical insurance information, advice on tax matters and other useful information. Scheduled enrolment sessions are held during the week before the semester (or trimester) starts. Students are required to attend these sessions to complete enrolment formalities and, where necessary, select courses. Teaching timetables, lists of required texts and student identity cards are issued at this time.



BARAHINEBAN STUDENT ACCOMMODATION

# CAMPUS AND CITY LIVING

**Accommodation**
The University recognises the importance of secure, affordable and comfortable accommodation for our students and offers both on-campus and off-campus accommodation.

Below you will find comprehensive information about on-campus accommodation at both the Callaghan and Central Coast campuses as well as details about off-campus accommodation. For the most up-to-date information about all of the University's accommodation services and options, please visit:

www.newcastle.edu.au/service/accommodation/

## ON-CAMPUS: CALLAGHAN CAMPUS

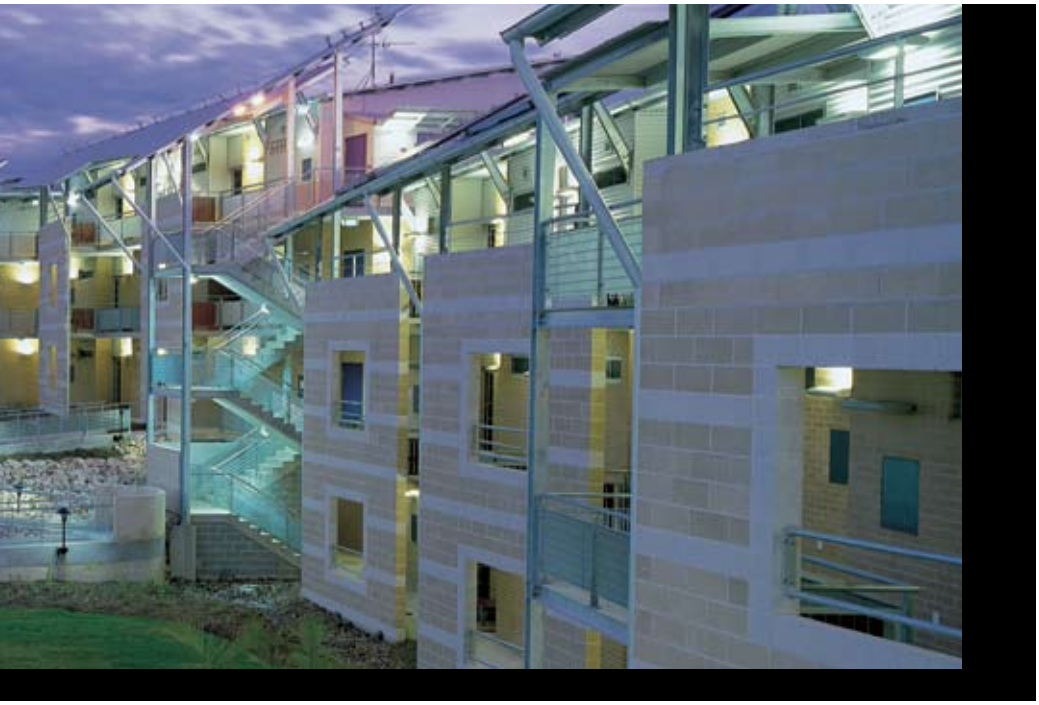
The University of Newcastle provides approximately 950 beds in four residential colleges located on Callaghan Campus: Edwards Hall, International House, Evatt House and Barahineban. Students have a choice of fully-catered, semi-catered or self-catered lifestyles.

**Fully-Catered:** Most meals are prepared for students by catering staff.

**Semi-Catered:** Some meals are prepared for students by catering staff with students preparing some meals for themselves. Students will need to shop for and purchase their own food when preparing their own meals.

**Self-Catered:** Students must shop for their own food and prepare all of their own meals.

Each residential college has its own unique atmosphere and all offer a range of social, cultural and sporting opportunities in an environment conducive to study and academic achievement. Each residential college is under the care of a Head of College and a team of residential staff who are employed by the University.



### Edwards Hall

- Accommodates 374 residents: 299 places are fully-catered and 75 places are self-catered.
- Fully-catered places include 16 meals per week: breakfasts and dinners between Monday and Friday (students are responsible for their own lunch arrangements) and breakfast, lunch and dinner on Saturdays and Sundays.
- Approximately 25% of Edwards Hall residents are international students.

### Edwards Hall – Sample Rates for 2008

| Room Type | Catering | Rate per Week |
|---|---|---|
| **Standard Room** Single occupancy; shared bathroom | Fully-Catered: 16 meals per week | AUD 210 |
| | Self-Catered | AUD 133 |
| **Cutler North Room** Single occupancy; private bathroom; air-conditioned | Fully-Catered: 16 meals per week | AUD 245 |

### Evatt House

- Accommodates 212 residents in self-contained units of five, six or 10 bedrooms. The 10-bedroom units accommodate students from first year through to final year, while the five and six-bedroom units are usually reserved for more senior residents.
- Evatt House is completely self-catered.
- Approximately 25% of Evatt House residents are international students.

### Evatt House – Sample Rate for 2008

| Room Type | Catering | Rate per Week |
|---|---|---|
| **Standard Room** Single occupancy; shared bathroom | Self-Catered | AUD 133 |

### International House

- Accommodates 226 residents in self-contained units of five, six and 10 bedrooms.
- International House offers students a semi-catered lifestyle, providing five dinners per week.
- Approximately 50% of International House residents are international students.

### International House – Sample Rate for 2008

| Room Type | Catering | Rate per Week |
|---|---|---|
| **Standard Room** Single occupancy; shared bathroom | Semi-Catered: 5 dinners per week | AUD 173 |

### Barahineban

- Comprises 95 single/dual occupancy rooms (students may have a room to themselves or share a room with another student).
- All rooms are air-conditioned with private bathrooms and a fully equipped kitchenette along with TV, VCR, telephones, voicemail facilities and computer/internet access points.

### Barahineban – Sample Rate for 2008

| Room Type | Catering | Rate per Week |
|---|---|---|
| **Upgraded Room** Single or dual occupancy; private bathroom; air-conditioned, kitchenette | Self-Catered | AUD 202 per room*<br>Rooms can be shared between two students |

# CAMPUS AND CITY LIVING CONTINUED

## ON-CAMPUS: CENTRAL COAST CAMPUS

**Blue Gum House**

- Accommodates 26 residents in single occupancy rooms with private bathrooms, air conditioning and a refrigerator.
- For each six residents, there is a fully equipped kitchen.

  All residents have access to a spacious, comfortable common room and a barbecue area.
- Blue Gum House is completely self-catered.

**Blue Gum House – Sample Rate for 2008**

| Room Type | Catering | Rate per Week |
|---|---|---|
| **Standard Room** Single occupancy; shared bathroom | Self-catered | AUD 135 |

**Other On-Campus Accommodation Charges**
Application Fee: AUD 25
Registration and enrolment charge: AUD 265
Orientation Fee: AUD 80
Damages deposit: AUD 400 (refundable provided conditions of residence are met)

**On-Campus Accommodation Application Process**
Successful applicants are offered a licence agreement for the full academic year or for one complete semester. Only those able to prove that they are studying for one semester will be offered a single semester license agreement.

The demand for on-campus accommodation is constantly high. Places are limited and there is no guarantee of obtaining accommodation on either the Callaghan or Central Coast campuses. Whilst the University endeavours to ensure each student is accommodated, we strongly recommend that students apply early and also consider other accommodation options.

**Important Dates**
Students must normally submit their application for on-campus accommodation after they have accepted their Letter of Offer to study at the University. Students commencing their studies in Semester One (February) usually apply for on-campus accommodation in the previous year.

If you are applying for on-campus accommodation for Semester One (February):
Applications Open: 1st September (previous year)
Applications Close: 30th November (previous year)

If you are applying for on-campus accommodation for Semester Two (July):
Applications Close: 31st May (same year)

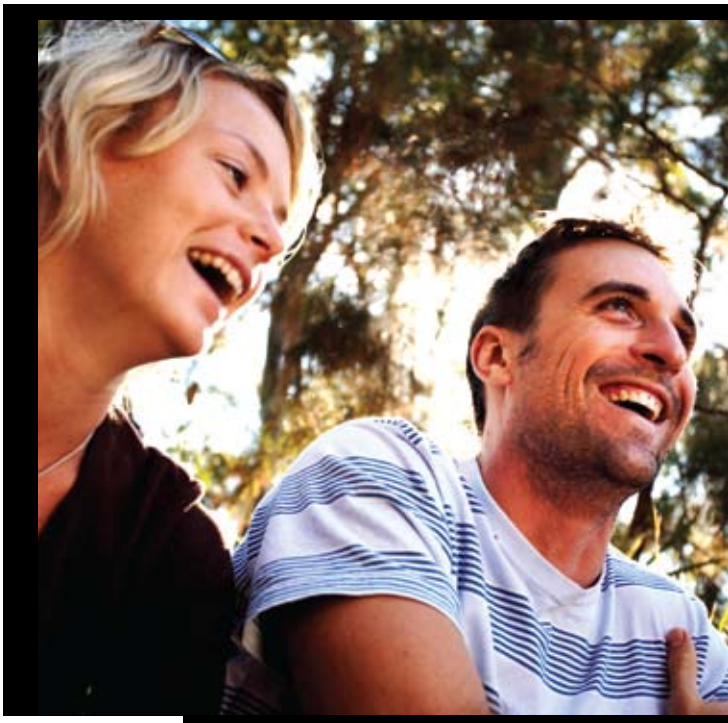
### HOW TO APPLY

Please visit this website for further information on the application and selection processes for on-campus accommodation.

http://www.newcastle.edu.au/service/accommodation/on-campus/howtoapply.html

# OFF-CAMPUS ACCOMMODATION

For students who do not wish to live on-campus or who have missed the application deadline for on-campus accommodation, the University offers assistance in finding off-campus accommodation. There are three main types of off-campus accommodation that the University can assist international students with: temporary accommodation; homestay and permanent off-campus accommodation.



**Temporary Accommodation**
International Student Support Services can organise temporary off-campus accommodation for international students prior to their arrival in Newcastle or Ourimbah. This gives students time when they first arrive to investigate and secure more permanent accommodation. For students enrolling at the Callaghan Campus, budget-priced temporary accommodation is located either in Newcastle city, or close to Callaghan campus.

For more information about temporary accommodation options, rates and booking arrangements, please contact: international-support@newcastle.edu.au or +61 2 4921 8703.

If you arrive in Newcastle or Ourimbah after office hours without due notice or have made no prior arrangements, you must be prepared to make your own temporary arrangements, even if you intend to apply to the University for assistance.

**Homestay Service**
Homestay provides an opportunity for students to live in a home with an Australian family. It is a popular option for international students seeking to improve their English in a relaxed environment and for other students who are interested in understanding how Australians live.

Students living in a homestay are provided with a furnished bedroom, and can choose either 21 meals per week (breakfast, lunch and dinner on a daily basis), or 16 meals per week (breakfast and dinner from Monday to Friday, and three meals per day on Saturdays and Sundays).

The University's Homestay Service is owned and operated by the University and is staffed by a Homestay Coordinator. All Homestay families complete an interview process and their homes are inspected by the Homestay Coordinator. Homestay families are carefully selected for their interest in other cultures and their willingness to care for international students.

From July 1st, 2008 the Homestay Service fees are:

Homestay Placement Fee: **AUD 200** (paid once-only)
Weekly Fee (21 meals): **AUD 195**
Weekly Fee (16 meals): **AUD 180**

To apply, please contact: homestay@newcastle.edu.au
or +61 2 4921 6812

**Off-Campus Accommodation Service**
The off-campus accommodation service provides a range of free and confidential services to assist students in their search for share-housing and rental accommodation in both Newcastle and Ourimbah.

The off-campus accommodation service maintains an online database of current accommodation options which international students can access prior to their arrival in Australia. To access this database, as well as further information about off-campus accommodation options, please visit: http://www.newcastle.edu.au/service/accommodation/off-campus/index.html

# OUR PROGRAMS

## ENGLISH LANGUAGE COURSES

**Entry to degree studies**
The University of Newcastle Language Centre offers English language programs for international students seeking entry into the University's degree programs, or for those students wishing to improve their English language ability for work or travel.

**The Language Centre**
Since 1988, the University's Language Centre has offered English Language Intensive Courses for Overseas Students (ELICOS) for students whose English level does not meet University entry requirements. All of the Centre's courses are accredited by the National ELICOS Accreditation Scheme (NEAS), and the Centre is a member of the ELICOS Association (EA) and the University Language Centres of Australia (UECA).

The Centre is also an official test centre for the International English Language Testing System (IELTS).

High quality student services are available through the Centre's excellent facilities, including;

- Purpose designed language, video and computer laboratories,
- Private study and resource areas, which are all available to students from 8:00am to 6:00pm, Monday to Friday.

Located in the heart of the Callaghan campus, students of the Language Centre have easy access to all main University facilities, including the;

- Auchmuty Library,
- Shortland Building building with its many cafeterias and shops,
- Sporting facilities, including the Forum Sports and Aquatic Centre,
- Medical Centre and University student support services

**ELICOS programs**
The Centre's ELICOS programs consist of five or 10-week sessions, across a range of different levels, including;

- Elementary English,
- Intermediate English,
- Upper Intermediate English,
- Advanced General English and
- English for Academic Purposes.

Entry into these courses is determined by a placement test at the time of enrolment. All students sit a placement test to ensure that they are placed in the right class for their English language ability. Each course has 25 hours of tuition per week.

On successful completion of an English course, students may be awarded one of two types of certificates:

1) Certificate of Attainment; for students who require English for general purposes; or

2) Certificate of Proficiency; that certifies that the student has reached a level of proficiency equivalent to the University of Newcastle entrance standard.

Students wishing to enter a University of Newcastle degree program or International Foundation (IF) will need to undertake the English for Academic Purposes program and sit the Certificate of Proficiency test.

## ENGLISH REQUIREMENTS

**Postgraduate and most Undergraduate Health Sciences**

**Language Centre exam Higher Level**
3 subtests 65% or greater, 1 subtest 60-64%

**IELTS** 6.5 (no subtest below 6.0)

**Internet-based TOEFL** 90 (no subtest below 20)

**Paper-based TOEFL** 550 TWE 4.5

**Computer-based TOEFL** 213 TWE 4.5

**Other equivalent recognised tests of English approved by the University of Newcastle**

**Undergraduate programs without higher entry requirements**

**Language Centre exam** Undergraduate Pass (UG) No subtest score below 60%

**IELTS** 6.0 (no subtest below 6.0)

**Internet-based TOEFL** 80 (no subtest below 20)

**Paper-based TOEFL** 525 TWE 4.0

**Computer-based TOEFL** 203 TWE 4.0

**Other equivalent recognised tests of English approved by the University of Newcastle**

## COURSE DESCRIPTION

**Elementary English**
This ten-week course is designed to provide students with the English they need for living, working or travelling in an English speaking environment. The course aims to provide students with skills in the following areas:

- Spoken grammar,
- Language pronunciation and fluency,
- Writing and journal keeping,
- Elementary reading,
- Elementary listening.

**Intermediate English**
During this ten-week course, students further develop communication and literacy skills to a level where they can function effectively in an English speaking environment. The course includes:

- Study and practice of written and spoken grammar,
- Language fluency and pronunciation practice
- Writing skills – essay writing,
- Reading skills – skimming, scanning, reading comprehension, short stories and novels
- Listening skills – note-taking, lecture comprehension techniques and
- Speaking development

**Upper Intermediate English**
This ten-week course further develops all of the previous skills taught in the Intermediate English course.

**English for Academic Purposes**
The English for Academic Purposes (EAP) course is a ten-week course designed for students seeking entry into an academic program at the University.
This course includes

- Essay and report writing,
- Note-taking,
- Preparation for tutorials,
- Strategies for listening to and understanding lectures,
- Research instruction and
- Written and oral presentations.

On completion of the EAP course, students can sit the University of Newcastle English Language Certificate of Proficiency test. To meet the entry requirements for academic study, students must achieve;

Postgraduate programs and most Undergraduate Health Sciences
Higher Level Pass (HP)
3 subtests 65% or greater,
1 subtest 60-64%

Undergraduate programs without higher entry requirements
Undergraduate Pass (UG)
No subtest score below 60%

International Foundation
Lower Level Pass (LP)
3 subtests 55% or greater,
1 subtest 50-54%

## COMMENCEMENT DATES

**Course dates 2009**
Cost per week:
AUD 345 for 25 hours tuition

- 12 January – 13 February
- 16 February – 20 March
- 23 March – 1 May
- Easter break 10 April – 17 April
- 4 May – 5 June
- 9 June – 10 July
- 27 July – 28 August
- 31 August – 2 October
- 12 October – 13 November
- 16 November –18 December

**English for Academic Purposes**
(10-week blocks)

The first intake is on 8 January and each course runs for 10 weeks. There is a new intake every five weeks and this follows the General English calendar.

**Course dates 2010**
General English (5 – 45 weeks)
English for Academic Purposes
(10 week course starting every 5 weeks)
Cost per week: AUD 350 for 25 hours tuition.

- 11 January – 12 February
- 15 February – 19 March
- 22 March – 30 April
- Easter Break 2 April (Good Friday) – 9 April
- 3 May – 4 June
- 7 June – 9 July
- Course break 12 July – 23 July
- 26 July – 27 August
- 30 August – 1 October
- Course break 4 October – 8 October
- 11 October – 12 November
- 15 November – 17 December
- Course break 20 December – 7 January 2011

# INTERNATIONAL FOUNDATION

Located on the main campus of the University of Newcastle, International Foundation (IF) offers international students a direct academic pathway into undergraduate study.

Students will study a total of eight courses – comprising two academic English courses and six elective courses – over a two term program that comprises a minimum of 24 weeks of study.

The primary benefit of IF is that students are offered a direct pathway into their preferred undergraduate degree at the University of Newcastle. All students are issued a single offer that combines International Foundation with a conditional offer for their nominated undergraduate degree program. This gives students the added security of knowing that on successful completion of IF, they do not need to re-apply for their degree program. Each program is uniquely designed to offer each student the opportunity to specialise in their area of undergraduate study.

**Success**
International Foundation (IF) is proud of its long history of success. To date, over 90% of students who complete IF are offered their first choice undergraduate degree at the University of Newcastle.

Further to this, the program is recognised as an entry qualification by a wide range of Australian universities.

**Student Life**
Students enrolled in IF have access to all university facilities and services and are treated as a student of the university. Access to libraries, computing facilities, support services and on-campus accommodation gives IF students a wonderful opportunity to mix with other university students and to experience the unique campus lifestyle.

**Diversity**
The University of Newcastle prides itself on the diversity of IF students. Students studying IF are currently drawn from a range of countries across the regions of Africa, Asia, Europe, the Middle East and South America.

# PROGRAM OUTLINE AND DEGREE ENTRY REQUIREMENTS

IF students study four courses each semester in their chosen stream of study.

English for Tertiary Studies I and II are compulsory for all students. In consultation with IF staff, students then select six other courses which are relevant to their nominated undergraduate degree.

In order to enrol in their nominated undergraduate program, IF students must pass English for Tertiary Studies II and achieve the required Average Mark (AM). The AM is calculated from the average of all eight courses taken in the IF and is expressed as a percentage (%) result.

**To be considered for admission into IF, students must meet both academic and English language entry requirements.**

**Health Science Stream**
Compulsory Courses:

- English for Tertiary Studies I
- English for Tertiary Studies II

Electives:

- Chemistry I and II
- Communications
- Cultural Studies I
- Directed Study I and II
- Introduction to Health Studies I and II
- Introduction to Legal Studies
- Mathematics I and II
- Physics I and II

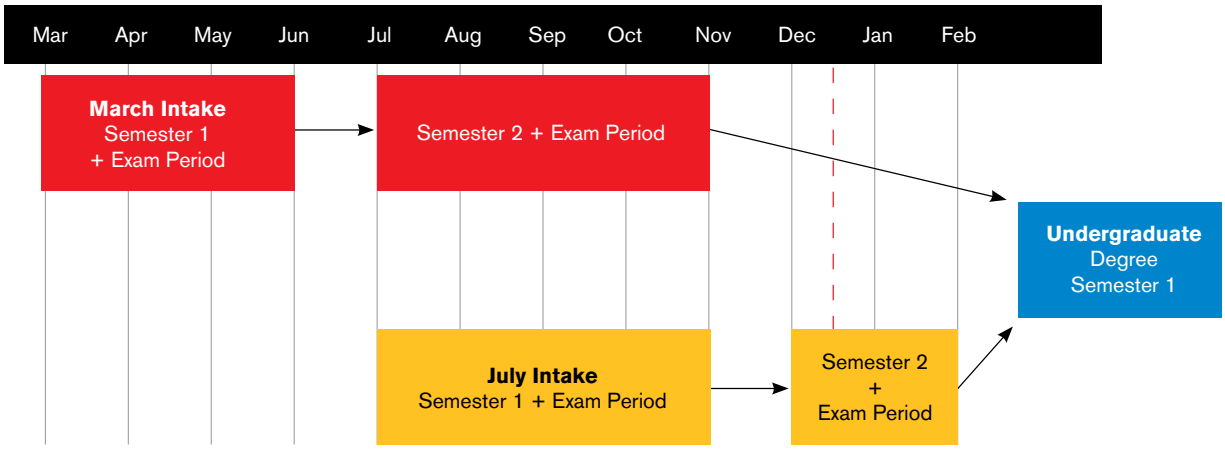
| Undergraduate Program | Minimum AM |
|---|---|
| B. Biomedical Science | 82 |
| B. Biotechnology | 69 |
| B. Food Science and Human Nutrition | 56 |
| B. Medicine | 90* |
| B. Medical Radiation Science | 75* |
| B. Nursing | 55 |
| B. Occupational Therapy | 81* |
| B. Oral Health | TBC |
| B. Physiotherapy | 87 |

* Interview with Faculty also required

**Intakes**
Students can choose to begin their program in either March or July and the timing of the program allows all students to enter their undergraduate degree in Semester 1 of the university year.

Cost: IF Tuition Fees for:
2009 AUD 15,000
2010 AUD 15,000

**Academic Prizes**
There are up to five academic prizes of AUD 2000 each awarded to outstanding International Foundation students with excellent academic achievement.




**Business, Law and Commerce Stream**
Compulsory Courses:

- English for Tertiary Studies I
- English for Tertiary Studies II
- Business Principles
- Mathematics I and II
- Macroeconomic Principles
- Microeconomic Principles
- Introduction to Legal Studies

| Undergraduate Program | Minimum AM |
|---|---|
| B. Business | 60 |
| B. Commerce | 60 |
| Combined degrees in Business / Commerce | 84 |
| B. Laws (Combined Degrees) | 84 |

**Engineering, Science and Information Technology Stream**
Compulsory Courses:

- English for Tertiary Studies I
- English for Tertiary Studies II

Electives:

- Advanced Mathematics I and II
- Chemistry I and II
- Design in Society
- Directed Study I and II
- Information Technology
- Mathematics I and II
- Physics I and II

| Undergraduate Program | Minimum AM |
|---|---|
| B. Computer Science | 63 |
| B. Construction Management (Building) | 56 |
| B. Design (Architecture) | 70 |
| B. Engineering | 66 |
| B. Environmental Science and Management | 55 |
| B. Information Technology | 55 |
| B. Mathematics | 69 |
| B. Psychology | 76 |
| B. Science | 55 |
| B. Surveying | 63 |

**Education and Arts Stream**
Compulsory Courses:

- English for Tertiary Studies I
- English for Tertiary Studies II

Electives:

- Business Principles
- Communications
- Cultural Studies I and II
- Design Drawing
- Design in Society
- Directed Study I and II
- Introduction to Legal Studies
- Mathematics I and II
- Studies in Interaction

| Undergraduate Program | Minimum AM |
|---|---|
| B. Arts | 55 |
| B. Communication | 75 |
| B. Development Studies | 60 |
| B. Early Childhood Teaching | 62 |
| B. Fine Art | 55 |
| B. Music | TBC |
| B. Social Science | 55 |
| B. Social Work | 69 |
| B. Speech Pathology | 79 |
| B. Teaching (Combined Degrees) | 62 – 64 |
| B. Visual Communication Design | 73 |

# IF ACADEMIC ENTRY REQUIREMENTS

The grades listed in the table below should be used as a guide for IF students only. Qualifications from countries that are not listed will be assessed on a case-by-case basis.

| Country | Qualification | Minimum Attainment |
|---|---|---|
| Australia | Higher School Certificate (or equivalent) | UAI 60 |
| Botswana | GCE 'O' Level (or forecast results) | C average in five main subjects |
| China | Senior Middle School 3 or 2 | 60% (SMS 3) / 75% (SMS 2) |
| Hong Kong | HKCEE (Form 5) | Three subjects at D grade |
| Indonesia | SMU Kelas 12 or SMU Kelas 11 | 6.0 average (Kelas 12) / 7.5 average (Kelas 11) |
| Japan | Upper Secondary School Graduation Diploma | Overall Grade Average (%) of 70% |
| Kenya | Kenya Certificate Secondary Education | C average in eight subjects |
| Malaysia | SPM<br>UEC | 30 points over five subjects<br>30 points over five subjects |
| Philippines | Senior High School Diploma | Average 75% |
| Singapore | GCE 'O' Level (or forecast results) | 30 points over five subjects |
| South Korea | Korean Senior High School Diploma | 2.5 GPA |
| Taiwan | High School Leaving Certificate | B grade average in five main subjects |
| Thailand | MAN 6 or MAN 5 | 2.5 GPA (MAN 6) / 3.0 GPA (MAN 5) |
| Vietnam | Diploma of General Education | Average grade 7.0 |
| Zambia | GCE 'O' Level (or forecast results)<br>Education Certificate Zambia | C average in five main subjects<br>Average Grade 5/6 |
| Zimbabwe | GCE 'O' Level (or forecast results)<br>ZIMSEC 'O' Level | C average in five main subjects<br>C average in five main subjects |
| International Qualifications Year 1 | International Baccalaureate (IB) | Successful completion of IB |

## ACADEMIC MATTERS

### Teaching Methods

Teaching methods and forms of assessment at the University of Newcastle vary according to the course. Students are usually required to undertake a combination of lectures, tutorials and/or laboratory classes and, in some cases, substantial practicums or fieldwork placements.

In order to meet assignment and examination requirements, students are expected to spend as much time in conducting library research and personal study as they do in class.

### Assessment

Assessment is usually in the form of written assignments, short tests, participation in tutorials and practical work, as well as examinations in semester (or trimester) time or in the formal examination periods.

Academic performance is usually graded according to a five-point scale (see table below). All international students are encouraged to discuss any questions or concerns about learning and assessment methods with their lecturers and tutors, who are always willing to help.

### Course Prerequisites

Prerequisites – that is, previous study in specified areas – ensure that students have the necessary skills and knowledge to attempt a course at a higher level.

Normally, courses:

- at first-year (1000 level) have no prerequisites;
- at second-year (2000 level) require a full year of previous relevant study;
- at third-year (3000 level) require two full years of previous relevant study;
- at fourth-year (4000 level) require three full years of previous relevant study; and at graduate (6000 level) require completion of a degree.

### Credit Transfer

It is the responsibility of all international students to negotiate the transfer of credit for studies undertaken at the University of Newcastle with their own home institution.

At the end of their period of enrolment, the University of Newcastle will provide the student's institution with an official transcript of all courses studied and grades obtained.

## IF ENGLISH REQUIREMENTS

| Test | Minimum Required Score |
|---|---|
| IELTS | Overall Score of 5.5 (with no individual band less than 5.0) |
| TOEFL – Computer-based Test | 173 with a TWE minimum score of 4.0 |
| TOEFL – Internet-based Test | 71 with a minimum score of 16 in Writing |
| TOEFL – Paper-based Test | 500 with a TWE minimum score of 4.0 |
| GCE 'O' Levels | C6 |
| SPM English | B4 |
| UEC Senior 2 English | B3 |
| HKCEE English | C (Minimum D in Writing) |
| HKALE Use of English | E |

# ABC

| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **Aboriginal Studies** | Bachelor of Aboriginal Studies | 50 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Arts | 51 |
| | Bachelor of Aboriginal Studies/Bachelor of Laws | 84 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| **Accounting** | Bachelor of Commerce | 58 |
| | Bachelor of Business/Bachelor of Commerce | 55 |
| | Bachelor of Commerce/Bachelor of Laws | 58 |
| **Architecture** | Bachelor of Design (Architecture)/Master of Architecture | 63 |
| **Arts** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Teaching/Bachelor of Arts | 107 |
| **Biological Science** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Biotechnology | 54 |
| **Biomedical Science** | Bachelor of Biomedical Science | 53 |
| **Biotechnology** | Bachelor of Biotechnology | 54 |
| **Building** | Bachelor of Construction Management (Building) | 62 |
| **Business** | Bachelor of Business | 55 |
| | Bachelor of Business/Bachelor of Commerce | 55 |
| | Bachelor of Business/Bachelor of Laws | 55 |
| | Bachelor of Information Technology | 83 |
| **Ceramics** | Bachelor of Fine Art | 80 |
| **Chemistry** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Engineering (Chemical) | 68 |
| **Commerce** | Bachelor of Commerce | 58 |
| | Bachelor of Business/Bachelor of Commerce | 55 |
| | Bachelor of Commerce/Bachelor of Laws | 58 |
| **Communication** | Bachelor of Communication | 59 |
| | Bachelor of Arts | 51 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Visual Communication Design | 113 |
| **Community Welfare and Human Services** | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Social Work | 104 |
| | Bachelor of Theology | 113 |

| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **Computer Science** | Bachelor of Computer Science | 61 |
| | Bachelor of Mathematics/Bachelor of Computer Science | 86 |
| | Bachelor of Engineering (Software) | 75 |
| | Bachelor of Engineering (Computer) | 70 |
| **Construction Management** | Bachelor of Construction Management (Building) | 62 |
| **Creative Arts** | Bachelor of Arts | 51 |
| | Bachelor of Fine Art | 51 |
| | Bachelor of Visual Communication Design | 113 |
| | Bachelor of Natural History Illustration | 91 |
| **Cross-Culture Communication** | Bachelor of Aboriginal Studies | 50 |
| | Bachelor of Aboriginal Studies/Bachelor of Laws | 50 |
| | Bachelor of Development Studies | 64 |
| **Design** | Bachelor of Visual Communication Design | 113 |
| | Bachelor of Design (Architecture)/Master of Architecture | 63 |
| **Development Studies** | Bachelor of Development Studies | 64 |
| **Dietetics** | Bachelor of Nutrition and Dietetics | 94 |
| **Digital Media** | Bachelor of Visual Communication Design | 113 |
| | Bachelor of Information Technology | 83 |
| | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| **Drama** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| **Drawing, Painting and Printmaking** | Bachelor of Fine Art | 80 |
| | Bachelor of Natural History Illustration | 91 |
| | Bachelor of Visual Communication Design | 113 |
| **Early Childhood Teaching** | Bachelor of Education (Early Childhood) | 67 |
| | Bachelor of Early Childhood Teaching | 65 |
| | Bachelor of Teaching/Bachelor of Early Childhood Studies | 110 |
| **Economics** | Bachelor of Business | 102 |
| | Bachelor of Economics | 102 |
| | Bachelor of Development Studies | ? |
| | Bachelor of Social Science | ? |
| | Bachelor of Social Science/Bachelor of Laws | ? |
| **Education** | Bachelor of Education | 66 |
| | Bachelor of Teaching/Bachelor of Music | 111 |
| | Bachelor of Teaching/Bachelor of Science | 112 |
| | Bachelor of Teaching/Bachelor of Arts | 107 |
| | Bachelor of Teaching/Bachelor of Fine Arts | 110 |
| | Bachelor of Teaching/Bachelor of Design and Technology | 109 |
| | Bachelor of Teaching/Bachelor of Health and Physical Education | 111 |
| | Bachelor of Education (Early Childhood) | 67 |
| | Bachelor of Teaching/Bachelor of Early Childhood Studies | 110 |
| | Bachelor of Early Childhood Teaching | 65 |
| **Engineering** | Bachelor of Engineering (Chemical) | 68 |
| | Bachelor of Engineering (Civil) | 69 |
| | Bachelor of Engineering (Computer) | 70 |
| | Bachelor of Engineering (Electrical) | 71 |
| | Bachelor of Engineering (Environmental) | 72 |
| | Bachelor of Engineering (Mechanical) | 73 |
| | Bachelor of Engineering (Mechatronics) | 74 |
| | Bachelor of Engineering (Software) | 75 |
| | Bachelor of Environmental Science and Management | ? |

| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **Engineering (continued)** | Bachelor of Engineering (Telecommunications) | 76 |
| | Bachelor of Surveying | 106 |
| **Environmental Science** | Bachelor of Environmental Science and Management | 77 |
| | Bachelor of Development Studies | 64 |
| | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Engineering (Chemical) | 68 |
| | Bachelor of Engineering (Environmental) | 72 |
| **Film and Television Studies** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| **Finance** | Bachelor of Commerce | 58 |
| | Bachelor of Commerce/Bachelor of Laws | 58 |
| | Bachelor of Mathematics | 86 |
| **Fine Art** | Bachelor of Fine Art | 80 |
| **Food Science** | Bachelor of Food Science and Human Nutrition | 81 |
| | Bachelor of Nutrition and Dietetics | 94 |
| | Bachelor of Teaching/Bachelor of Design and Technology | 109 |
| **Geography** | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Development Studies | 64 |
| **Graphic Design** | Bachelor of Visual Communication Design | 113 |
| **Health** | Bachelor of Biomedical Science | 53 |
| | Bachelor of Medical Radiation Science (Diagnostic Radiography) | 87 |
| | Bachelor of Medical Radiation Science (Nuclear Medicine) | 88 |
| | Bachelor of Medical Radiation Science (Radiation Therapy) | 88 |
| | Bachelor of Nursing | 92 |
| | Bachelor of Nutrition and Dietetics | 94 |
| | Bachelor of Occupational Therapy | 95 |
| | Bachelor of Oral Health | 96 |
| | Bachelor of Physiotherapy | 97 |
| | Bachelor of Speech Pathology | 105 |

| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **History** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| **Human Geography** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Development Studies | 64 |
| **Human Resources** | Bachelor of Business | 55 |
| | Bachelor of Business/Bachelor of Laws | 55 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| **Illustration** | Bachelor of Visual Communication Design | 113 |
| | Bachelor of Natural History Illustration | 91 |
| | Bachelor of Fine Art | 51 |
| **Information Technology** | Bachelor of Information Technology | 83 |
| | Bachelor of Computer Science | 61 |
| | Bachelor of Engineering (Computer) | 70 |
| | Bachelor of Engineering (Software) | 75 |
| **International Studies** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Development Studies | 64 |
| | Bachelor of Business | 55 |
| | Bachelor of Business/Bachelor of Laws | 68 |
| **Journalism** | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| **Languages** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| **Law** | Bachelor of Laws (Graduate entry) | 84 |
| | Bachelor of Aboriginal Studies/Bachelor of Laws | 50 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Business/Bachelor of Laws | 55 |
| | Bachelor of Commerce/Bachelor of Laws | 58 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| **Leisure and Tourism** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |

# M N O P

| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **Linguistics** | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Speech Pathology | 105 |
| | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| **Management** | Bachelor of Business | 55 |
| | Bachelor of Business/Bachelor of Laws | 55 |
| | Bachelor of Information Technology | 83 |
| | Bachelor of Construction Management (Building) | 62 |
| | Bachelor of Business/Bachelor of Commerce | 55 |
| | Bachelor of Engineering/Bachelor of Business | 68 |
| **Marine Science** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| **Marketing** | Bachelor of Business | 55 |
| | Bachelor of Information Technology | 83 |
| | Bachelor of Business/Bachelor of Commerce | 55 |
| | Bachelor of Business/Bachelor of Laws | 55 |
| **Mathematics** | Bachelor of Mathematics | 86 |
| | Bachelor of Science | 99 |
| | Bachelor of Mathematics/Bachelor of Science | 86 |
| | Bachelor of Mathematics/Bachelor of Computer Science | 86 |
| **Media Studies** | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| **Multimedia** | Bachelor of Information Technology | 83 |
| | Bachelor of Communication | 59 |
| | Bachelor of Visual Communication Design | 113 |
| **Music** | Bachelor of Music | 90 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Teaching/Bachelor of Music | 111 |
| **Natural History Illustration** | Bachelor of Natural History Illustration | 91 |
| **Nuclear Medicine** | Bachelor of Medical Radiation Science (Nuclear Medicine) | 88 |
| **Nursing** | Bachelor of Nursing | 92 |
| **Nutrition** | Bachelor of Nutrition and Dietetics | 94 |
| | Bachelor of Food Science and Human Nutrition | 81 |
| **Occupational Therapy** | Bachelor of Occupational Therapy | 95 |
| **Oral Health** | Bachelor of Oral Health | 96 |
| **Philosophy** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |

| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **Photography** | Bachelor of Fine Art | 80 |
| | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| | Bachelor of Visual Communication Design | 113 |
| **Photonics** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Engineering (Electrical) | 71 |
| **Physics** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Engineering (Computer) | 70 |
| | Bachelor of Engineering (Electrical) | 71 |
| **Physiotherapy** | Bachelor of Physiotherapy | 97 |
| **Politics and Policy** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Development Studies | 64 |
| **Primary Teaching** | Bachelor of Teaching/Bachelor of Arts | 107 |
| | Bachelor of Education (Early Childhood) | 67 |
| | Bachelor of Teaching/Bachelor of Early Childhood Studies | 110 |
| **Psychology** | Bachelor of Psychology | 98 |
| | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws (Not an accredited sequence) | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws (Not an accredited sequence) | 102 |
| | Bachelor of Speech Pathology | 105 |
| **Public Relations** | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| **Radiation Therapy** | Bachelor of Medical Radiation Science (Radiation Therapy) | 88 |
| **Radiography** | Bachelor of Medical Radiation Science (Diagnostic Radiography) | 87 |
| **Religious Studies** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Theology | 113 |
| **Science** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Mathematics/Bachelor of Science | 86 |
| | Bachelor of Mathematics | 86 |
| | Bachelor of Engineering (Chemical) | 68 |
| | Bachelor of Engineering (Environmental) | 72 |

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| Area of Interest | Relevant Degree Program | Page |
|---|---|---|
| **Secondary Teaching** | Bachelor of Teaching/Bachelor of Arts | 107 |
| | Bachelor of Teaching/Bachelor of Fine Art | 110 |
| | Bachelor of Teaching/Bachelor of Design and Technology | 109 |
| | Bachelor of Teaching/Bachelor of Health and Physical Education | 111 |
| | Bachelor of Teaching/Bachelor of Music | 111 |
| | Bachelor of Teaching/Bachelor of Science | 112 |
| **Social Science** | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| **Social Work** | Bachelor of Social Work | 104 |
| **Sociology and Anthropology** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Social Science | 102 |
| | Bachelor of Social Science/Bachelor of Laws | 102 |
| | Bachelor of Development Studies | 64 |
| **Speech Pathology** | Bachelor of Speech Pathology | 105 |
| **Sports Science** | Bachelor of Exercise and Sport Science | 79 |
| | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Psychology | 98 |
| **Statistics** | Bachelor of Mathematics | 86 |
| | Bachelor of Science | 99 |
| **Surveying** | Bachelor of Surveying | 106 |
| **Sustainable Resource Management** | Bachelor of Science | 99 |
| | Bachelor of Science/Bachelor of Laws | 99 |
| | Bachelor of Development Studies | 64 |
| | Bachelor of Environmental Science and Management | 77 |
| **Teaching** | Bachelor of Teaching/Bachelor of Arts | 107 |
| | Bachelor of Teaching/Bachelor of Music | 111 |
| | Bachelor of Teaching/Bachelor of Science | 112 |
| | Bachelor of Teaching/Bachelor of Fine Arts | 110 |
| | Bachelor of Teaching/Bachelor of Design and Technology | 109 |
| | Bachelor of Teaching/Bachelor of Health and Physical Education | 111 |
| | Bachelor of Education (Early Childhood) | 67 |
| | Bachelor of Teaching/Bachelor of Early Childhood Studies | 110 |
| | Bachelor of Early Childhood Teaching | 65 |
| | Bachelor of Education | 66 |
| **Theology** | Bachelor of Theology | 113 |
| **Video** | Bachelor of Fine Arts | 80 |
| | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| | Bachelor of Arts | 51 |
| | Bachelor of Visual Communication Design | ? |
| **Web Design** | Bachelor of Visual Communication Design | 113 |
| | Bachelor of Information Technology | 83 |
| | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |
| **Writing** | Bachelor of Arts | 51 |
| | Bachelor of Arts/Bachelor of Laws | 51 |
| | Bachelor of Arts/Bachelor of Science | 51 |
| | Bachelor of Music/Bachelor of Arts | 90 |
| | Bachelor of Communication | 59 |
| | Bachelor of Communication/Bachelor of Laws | 59 |

# A

## BACHELOR OF **ABORIGINAL STUDIES**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **048760G**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Aboriginal Studies?**
This degree program was developed in response to the particular needs of Aboriginal and Torres Strait Islander communities, but it may be undertaken by anyone. The program will give you a balanced knowledge and understanding of Aboriginal culture, history and society, together with enhanced and highly developed skills in oral, written and interpersonal communication.
It is specifically Aboriginal in orientation and is designed to prepare you for roles in Aboriginal and Torres Strait Islander organisations and the public and private sectors, as well as lay the groundwork for further studies in Aboriginal postgraduate research.

**Why study with us?**
The University of Newcastle has made Indigenous education one of its highest priorities. The Wollotuka School of Aboriginal Studies has been joined by the highly respected Umulliko Indigenous Higher Education Research Centre and both are now housed in the purpose-built Birabahn Indigenous Higher Education Centre. Its considerable achievements are respected and it has great success in providing Indigenous students with help and support to ensure they reach their full potential.

**What will you study**
The program has been designed to develop in Aboriginal and Torres Strait Islander students, pride and confidence in their identity and culture as well as skills in undergraduate studies.
In non- Aboriginal students, the program aims to develop a well-informed understanding of Aboriginal and Torres Strait Islanders. Each year you will take core courses in Aboriginal and communication studies and in your final year, courses in Indigenous research methods and comparative Indigenous studies. You will also be required to select one or two elective courses each semester covering topics such as Aboriginal leadership and management, Aboriginal social justice issues and Aboriginal health practices.

**Careers Opportunities**
As a graduate you may find employment in Aboriginal organisations such as land councils, medical services, legal services, cooperatives and housing companies. Employment may also be found in government organisations and in all areas of the private sector where roles are emerging for Aboriginal people with a broad range of skills and knowledge.

**Sample Program**

**Year 1**

- Introduction to Aboriginal Studies
- Aboriginal Traditional Societies
- Academic Communication
- Communicating with Aboriginal Peoples
- Two Aboriginal Studies electives*
- Two electives*

**Year 2**

- Contact Aboriginal Societies 1
- Contact Aboriginal Societies 2
- Constructions of Aboriginality in Print Communication
- Indigenous Communication – Oral
- Two Aboriginal Studies electives *
- Two electives*

**Year 3**

- Communication Studies 5
- Indigenous Research and Cognitive Imperialism
- Comparative Indigenous Cultures II
- Aboriginal Belonging
- Contemporary Aboriginal Society
- Two Aboriginal Studies electives *
- One elective*

*Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **ARTS**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **001602K**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Arts?**
An arts degree can teach you how to think analytically, how to question and synthesise information, help you to learn about and appreciate the importance of other peoples and their cultures. An arts degree can help you understand how society and politics work, and teach you the important lessons of history. An arts degree is the perfect basis for your career; it can be as generalised or specialised as you would like.

**Why study with us?**
A number of our senior academic arts staff are leaders in their fields and their love of this area of study is infectious. We have almost 30 majors to choose from, we have our own radio and television studios if you choose media studies and we are one of the few universities still offering Greek and Latin. As the program is offered on both the Callaghan and Ourimbah campuses, courses from either campus may be counted towards the Bachelor of Arts, provided that students meet the program requirements.

**What will you study?**
Courses are available at either the Callaghan or Ourimbah campuses (they may not be available at both). You will undertake two majors, so one could be from a traditional arts and humanities area and one could be more vocationally focused. The choice is yours. You can major in the following course areas:

**Aboriginal Studies (Callaghan):**
Students study various aspects of Aboriginal histories, societies, leadership styles, cultures and issues to do with Aboriginal communities. Studies centre on Indigenous peoples' experiences and perspectives.

**Ancient History (Callaghan):** Students study a range of courses dealing with ancient societies, primarily Greek and Roman, their culture and history.

**Chinese (Callaghan):** Students study written and spoken communication in the Chinese language.

**Classical Languages (Latin and Greek) (Callaghan):** Students study aspects of both or either the Latin or Greek classical languages.

**Creative Arts (Ourimbah):** Students study across a range of courses in the creative arts. Courses cover the core aspects of the creative arts through studies in drama, music, and fine art taught from an interdisciplinary perspective.

**Drama (Callaghan and Ourimbah):** Students study aspects of the history, performance and contemporary culture of drama.

**English (Callaghan and Ourimbah):** The focus of this major is the critical study of literature from various periods, including world literature in translation and literary practice (creative writing).

**Film, Media and Cultural Studies (Callaghan):** This major focuses on a range of media forms and their roles in the circulation of images and information that shape our lives. Students develop critical analytical skills through applying the historical study of media and popular culture to current debates about cultural representation and cultural technologies, and their roles in contemporary society.

**French (Callaghan):** Students are given the opportunity to achieve high level language skills in both written and spoken French.

**German (Callaghan):** This major provides students with the opportunity to achieve high level language skills in written and spoken German.

**History (Callaghan and Ourimbah):** Students study history, primarily the history of medieval and modern times. Consideration will be given to the relevance of both political and social history to the contemporary world.

**Human Geography and the Environment (Callaghan):** This major explores the relationships between people and places in a global context, with an emphasis on environmental concerns.

**International Affairs (Callaghan and Ourimbah):** The focus of this major is to provide students with a strong understanding of all aspects of international affairs – including foreign policy, international relations and Australia's place in the world – and their impact on policy making, religion, ethnicity and nationalism.

**Japanese (Callaghan):** Students study written and spoken communication in the Japanese language.

**Linguistics (Callaghan and Ourimbah):** Students study language as a human communication system, focusing on the structure, acquisition and uses of language, and on the variety of world languages.

**Philosophy (Callaghan):** Students study philosophy through a range of topics and issues.

**Politics and Policy (Callaghan and Ourimbah):** This major enables students to understand the nature and impact of politics in terms of how decisions are made about the allocation of scarce resources and the resolution of social problems.

**Psychology Studies (Callaghan and Ourimbah):** This major is for students with a general interest in psychology, and for those who see psychology as complementary to their other majors within the Bachelor of Arts. Students seeking to take an Australian Psychological Society accredited sequence within the Bachelor of Arts are required to take additional psychology courses and should consult the School of Psychology.

**Religious Studies (Callaghan):** Students study the history, literature, beliefs and practices of the principle world religions from antiquity to the present day. The multidisciplinary program allows students to approach religion from a variety of perspectives, including anthropology, classics, education, history, philosophy and/or sociology.

**Sociology and Anthropology (Callaghan and Ourimbah):** This major has two strands. Sociology is the study of contemporary social issues, social institutions, and social relationships to understand social order and social change. Sociologists study the ways we organise our lives with a focus on issues of inequality, power, globalisation, and identity. Anthropologists study cultures ranging from small-scale Indigenous groups to advanced capitalist societies, with a focus on fieldwork studies to understand a person's way of life.

**Writing (Callaghan):** This major provides students with the opportunity to pursue practical training in creative writing and to develop an understanding of the major media available to the contemporary writer (print, theatre, film and television).

**Career Opportunities**
Some graduates may pursue careers in the area of their major, and others may be employed on the basis of skills acquired through their University work. Because of the diversity of course areas, students are encouraged to seek the advice of a career consultant when selecting courses, especially if they have a particular career in mind.

Arts graduates are found in a very broad range of rewarding careers encompassing all aspects of society, both locally and overseas. These include business, government, management and administration, public relations, human resource management, marketing and teaching.

*Please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of courses associated with this program.

# BACHELOR OF **ARTS (HONOURS)**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **000760D**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **One year**

Commencement: **February**

Students who perform well during the Bachelor of Arts degree may undertake a further year of full-time study to obtain an Honours degree. The Honours degree allows students to further develop their specific areas of interest.

# B

## BACHELOR OF **BIOMEDICAL SCIENCE**

FACULTY OF
**HEALTH**

CRICOS Code: **023110D**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Biomedical Science?**
The Biomedical Science graduate from the University of Newcastle is trained in basic knowledge of the structure and function of living organisms with particular focus on the human. Using this knowledge, together with problem solving skills, critical reasoning and scientific methods taught in the Bachelor of Biomedical Sciences program, the graduate is well prepared to collaborate on scientific investigations of human structure and function in health and disease at a molecular, cellular and whole systems level.

**Why study with us?**
Biomedical Science graduates from the University of Newcastle go on to become independent scientists working anywhere in the world. They may gain direct access to graduate programs in medicine and other health disciplines such as pharmacy, physiotherapy or occupational therapy so that they can become a registered health care practitioner.

**What will you study?**
During the degree you will study a wide range of topics including human anatomy and physiology, pharmacology and the analysis of drug actions, bioinformatics, human genetics, genetic engineering, immunology, bacteriology, virology, neuroscience, cancer biology and all aspects of cell biochemistry. In the third year of the degree you have the opportunity to participate in the design and implementation of a research project in a current area of scientific endeavour, and throughout the degree there is a strong emphasis on problem-solving, working in teams and on the enhancement of written and oral communication skills.

**Career Opportunities**
Biomedical Science graduates from the University of Newcastle have a diverse range of career opportunities. Positions for Biomedical Science graduates are available throughout the world in developed and developing countries as well as metropolitan and rural environments. As a Biomedical Scientist, graduates may find employment in government and private sector laboratories such as those in hospitals, universities, and the police force with roles in biomedical research, diagnostic pathology testing and forensics. They are also employed by medical, veterinary and health science companies to interact with researchers and clinicians concerning products and technological developments in the veterinary and health-care sector. Biomedical Scientists in the biotechnology or pharmaceutical industries, have roles in basic research and development, clinical trials, patent law, marketing and sales.

A number of students go on to become independent scientists by undertaking further training at the level of a PhD. Administrative and education careers requiring knowledge of the biomedical sciences are also open in government and private sectors. The Biomedical Science Degree is also suitable for those seeking entry into graduate programs in pharmacy, medicine and other health disciplines such as physiotherapy or occupational therapy so that they can become a registered health care practitioner.

**Assumed knowledge:**
A strong background in the sciences including mathematics, chemistry and physics would be an advantage.

**Sample Program**

**Year 1**

- Human Genomics and Biomolecular Analysis
- Statistics for the Sciences
- Introductory Chemistry 1010, 1020
- Biomedical Science Part 1, Part 2
- Mathematics 1110 or Psychology Intro 1010 and 1020
- Introductory Physics or Psychology Intro 1010 and 1020

**Year 2**

- Musculoskeletal Anatomy for Biomedical Science
- Clinical Exercise Physiology
- Mammalian Growth and Development
- Human Pathophysiology
- Human Molecular Science
- Human Infection and Immunity
- Bioinformatics and Functions Genomics

**Year 3**

- Professional Skills in Biomedical Science and Biotechnology
- Neuroscience
- Advanced Human Molecular Science
- Human Pharmacology
- Advanced Skills in Research Design
- Electives*

* Electives – please refer to http://www.newcastle.edu.au/program/10986.html for program updates and the full range of electives associated with this program.

# BACHELOR OF **BIOMEDICAL SCIENCE (HONOURS)**

FACULTY OF
**HEALTH**

CRICOS Code: **039702D**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

**Commencement: February**

Students who achieve a superior level of performance in the Bachelor of Biomedical Science select projects from the range offered and undertake a research program specialising in a particular discipline from among the biomedical sciences.

# BACHELOR OF **BIOTECHNOLOGY**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **023099E**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Biotechnology?**
Biotechnology harnesses the natural biochemical and genetic processes of living organisms for our own use. Right now we are using it in genetic engineering, human health, pharmaceuticals, plant and animal agriculture, food production, fuels and waste management. The diversity of careers available in biotechnology continues to increase and it is expected to become one of the growth areas of the 21st Century. If you are keen to be a part of an area of science that is new and where so much is still to be discovered, then biotechnology is an exciting choice offering unlimited opportunities.

**Why study with us?**
This program has one of the longest placement courses offered in biotechnology in any university in Australia. Work placement enhances the employment prospects of student by providing relevant workplace experience. Many of our students go on to do Honours and in some cases, further study for more specialist careers.

**What will you study?**
The Bachelor of Biotechnology provides excellent knowledge in modern biotechnology, including molecular biology, molecular genetics and microbiology, as well as a range of experiences in research methods, data analysis, instrumentation and commercialisation. Students will have the opportunity to gain practical experience, including one semester working in a biotechnology environment in an area such as industry, or university.

**Professional Accreditations**
Graduates may apply for membership of the Australian Biotechnology Association, the Australian Institute of Biology, and specialist societies such as the Australian Society of Biochemistry and Molecular Biology.

**Career Opportunities**
Graduates may work in biomedical research, pathology laboratories, biotechnology industries, bioanalytical laboratories in government and industry, reproductive biology industries, plant biotechnology and a range of veterinary and agricultural support industries.

**Sample Program**

**Year 1**

- Organisms to Ecosystems
- Molecules, Cells and Organisms
- Professional Skills for Biological Sciences
- Introductory Chemistry I & II
- Statistics for the Sciences
- A directed Mathematics course.
- Introductory Physics

**Year 2**

- Biochemistry
- Molecular Genetics
- Molecular Laboratory Skills for Biological Science
- Microbial Biology
- Biomolecules
- Laboratory Skills in Biological Systems
- Plant Cell Development
- Elective*

**Year 3**

- Molecular Biology
- Plant Cell and Molecular Biology
- Advanced laboratory Skills in Biological Sciences
- Cellular Biotechnology
- Biotechnology Finance and Commercialisation
- Reproductive Physiology and Development
- Conservation Biology
- Plant Development Physiology
- Biotechnology Placement
- Elective/s*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **BIOTECHNOLOGY (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **064596D**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

Students who perform well during the degree may undertake a further year of study to obtain an Honours degree. The Honours degree allows students to further develop their specific areas of interest and may lead to enhanced career opportunities.

# BACHELOR OF **BUSINESS**

FACULTY OF
**BUSINESS AND LAW**

CRICOS Code: **001133A**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Business?**
Business is a vital component of our free market economy and it requires people with expertise in a range of management areas who can ensure that businesses operate effectively. Whether your aim is to establish your own business or to work in the management structure of a company or large organisation, you will need the right qualifications – and this is the degree qualification to have.

**Why study with us?**
Many of our graduates have gone on to find great jobs, not just in Australia but all over the world. The high quality content of our courses and our effective teaching methods ensure that you are well equipped with the skills and knowledge required to enter the industry. The program has a practical orientation, with students learning from case studies of real business situations.

**What will you study?**
The degree program starts with broad prescribed courses and then progresses to one of the six major sequences of study – Operations and Information Management, Human Resource Management, International Business, Marketing or Tourism.

**Operations & Information Technology*** students will develop an understanding of how to use emerging technologies to compete in the global marketplace. Shows how technology makes business more efficient and facilitates new types of business.

**Human Resource Management** students will study a variety of courses such as introduction to industrial relations, human resource management, advanced employment and a range of courses including law of employment, labour economics, occupational health and safety law, managing diversity, human resource development, organisational change, and industry, employment and workplace.

**International Business*** students will study the international business environment, international business issues and cases, and a range of courses including eCommerce, Asian business development, international accounting, international business and finance, international marketing, international human resource management, introduction to international trade and finance, and consumer behaviour.

**Management** students will study business venturing, organisational structures and design, contemporary management issues, strategic management, human values and commercial practice and a range of courses including services marketing, retail management, personal financial planning, human resource management, and business research methods.

**Marketing** students will study consumer behaviour, marketing research, strategic marketing management, marketing law, product and brand management, advertising and promotion management, relationship marketing management, business to business marketing, international marketing, electronic marketing, and applied marketing research.

**Tourism*** students will gain a critical understanding of the complexities of the tourism industry and in-depth knowledge of the economic, social, cultural and environmental impacts of tourism. Students undertaking a major in Tourism will study a range of courses that focus on areas such as tourism marketing, tourist behaviour and management, sustainable tourism development, tourism and environmental issues, ecotourism, festivals and events planning and cultural and heritage tourism.

*only available at Callaghan campus

**Professional Accreditations**
All business graduates are eligible for membership of the Australian Institute of Management. Students who complete the Human Resource Management major sequence of the degree are eligible to apply for membership of the Australian Human Resources Institute.

**Career Opportunities**
The career choices are endless and include business management, retail management, advertising and promotions management, human resource management, industrial relations, marketing, small and medium enterprise management, tourism and hospitality management, foreign economic relations, international trade, international marketing and investments. Business graduates enjoy a high rate of employment.

**Core Courses**
These courses are compulsory with all major sequences

**Year 1**
- Accounting for Decision Makers
- Microeconomics for Business Decisions
- Macroeconomics in the Global Economy
- Managing the Organisation
- Foundations of Law
- Business Decision Making

**Year 2**
- Finance
- Information and Communication in Business
- Principles of Marketing
- Business Strategy

**Year 3**
- Organisations, Politics and Society

**Sample Program – Management Major Sequence**
Addresses the need for managers to possess a wide range of skills in all aspects of business, including marketing, human resource management, enterprise management and entrepreneurship.

**Year 1 – Core courses**

**Year 2 – Directed courses**
- Organisational Structures and Design
- Business Venturing
- Consumer Behaviour

**Year 3 – Directed courses**
- Project Management
- Managing Diversity
- Strategic Marketing Management

Please refer to www.newcastle.edu.au/program/undergraduate/
for program handbook including the full range of electives courses associated with this program.

**Sample Program – Marketing Major Sequence**
Addresses the means by which individual and group needs and wants are satisfied through the exchange of goods and services.

**Year 1 – Core courses**

**Year 2 – Directed courses**
- Consumer Behaviour
- Marketing Research
- Strategic Marketing Management
- Retail Marketing

**Year 3 – Directed courses**
- International Marketing
- Services Marketing
- Industrial Marketing Management

Please refer to www.newcastle.edu.au/program/undergraduate/
for program handbook including the full range of electives courses associated with this program.

**Sample Program – Human Resource Management Major Sequence**
Concerned with all aspects of people and personnel management within an organisation.

**Year 1 – Core courses**

**Year 2 – Directed courses**

- Introduction to Employment Relations
- Introduction to Human Resource Management
- Applied HRM and Employment Relations

**Year 3 – Directed courses**

- Employment Law
- Managing Diversity
- Negotiation and Advocacy

Please refer to www.newcastle.edu.au/program/undergraduate/
for program handbook including the full range of electives courses associated with this program.

**Sample Program – International Business Major Sequence**
**(Only available at Callaghan)**

**Year 1 – Core courses**

**Year 2 – Directed courses**

- International Business Strategy and Strategic Alliances
- Cross-Cultural Management and Negotiations
- International and Geopolitical Risk
- International Business Operations
- International Marketing

**Year 3 – Directed course**

- International Finance

Please refer to www.newcastle.edu.au/program/undergraduate/2008/10039.html for program handbook including the full range of electives courses associated with this program.

**Sample Program – Tourism Major Sequence (Only available at Callaghan)**

**Year 1 – Core course and Introduction to Sustainable Tourism Management**

**Year 2 – Directed Courses**

- Ecotourism & Outdoor Recreation Management
- Tourism, Culture & Heritage Management
- Visitor Behaviour & Management

**Year 3 – Directed Courses**

- Services Marketing
- Project in Business
- Leisure Tourism & Environmental Issues
- Sustainable Tourism Planning
- Festivals & Event Planning
- Tourism Marketing

Please refer to www.newcastle.edu.au/program/undergraduate/
for program handbook including the full range of electives courses associated with this program.

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# BACHELOR OF **BUSINESS (HONOURS)**

FACULTY OF
**BUSINESS AND LAW**

CRICOS Code: **030569K**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February**

Students who perform well during the Bachelor of Business degree may apply to undertake a further year of full-time study to obtain an Honours degree. The Honours degree allows students to further specialise in areas of management, marketing and enterprise, or industrial relations and human resource management.

# C

## BACHELOR OF **COMMERCE***

FACULTY OF
**BUSINESS AND LAW**

CRICOS Code: **001603J**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Commerce?**
A commerce degree is your first step to becoming a fully qualified accountant or undertaking careers in finance and economics.

**Why study with us?**
Many of our graduates have gone on to land great jobs, not just in Australia but in Asia, the United States and Europe. The high success rate of our graduates is largely a result of the course content and our effective teaching methods. According to the 2006 Good Universities Guide, 92 per cent of our graduates found employment within four months of graduating.

**What will you study?**
There are three major sequences of study offered in the degree program – Accounting, Economics and Finance. As accountancy and financial management are at the very heart of all organisations, you'll find commerce is a field offering enormous scope and opportunity.

**Professional Accreditations**
Graduates may apply for membership and accreditation with the Institute of Chartered Accountants in Australia (ICAA), Financial Services Institute of Australia (FINSIA) (when working in the industry), Australian Securities and Investments Commission (ASIC) and Certified Practising Accountants Australia (CPA).

**Career Opportunities**
The Bachelor of Commerce is a degree that leads to a wide choice of careers. Stated simply, all industries and all businesses need people with accounting and finance skills. Career choices for graduates include positions in professional accounting, business management, senior administration, banking and finance. A finance specialisation opens up careers in international banking, international finance, investment management, treasury management, money market operations and financial forecasting. Commerce graduates also enjoy a high rate of employment.

**Core Courses**

**Year 1**

- Accounting for Decision Makers
- Microeconomics for Business Decisions
- Macroeconomics in the Global Economy
- Managing the Organisational
- Foundations of Law – plus
- Business Decision Making – or
- Basic Econometrics and Quantitative Analysis 1

**Year 2**

- Business Strategy
- Finance
- Costing Principles
- Information and Communication in Business
- Principles of Marketing

**Year 3**

- Organisations, Politics and Society

**Sample Program – Accounting Major Sequence**

**Year 1 – Core courses plus:**

- Accounting Practice
- Financial Accounting

**Year 2 Directed courses:**

- Company Accounting or
- Management Accounting
- Advanced Management Accounting
- Accounting Theory

**Year 3 Directed courses:**

- Issues in Financial Accounting
- Issues in Management Accounting
- Taxation

Please refer to www.newcastle.edu.au/program/undergraduate/
for program handbook including the full range of electives courses associated with this program.

**Sample Program – Economics Major Sequence (only available at Callaghan)**

**Year 1 – Core courses**

**Year 2 – Directed courses:**

- Microeconomics
- Macroeconomics
- Markets, Regulation and Government Policy

**Year 3 – Directed courses:**

- Economic Development
- Labour Economics
- Global Trade and Finance

Please refer to www.newcastle.edu.au/program/undergraduate/
for program handbook including the full range of electives courses associated with this program.

**Sample Program – Finance Major Sequence (only available at Callaghan)**

**Year 1 –** Core Courses and Accounting Practice

**Year 2**
Business Finance
Corporate Financial Decision Making

**Year 3**
Investments & Derivative Securities
International Finance

## BACHELOR OF COMMERCE (HONOURS)

FACULTY OF
**BUSINESS AND LAW**

CRICOS Code: **015700D**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February**

Students who perform well during the Bachelor of Commerce degree may apply to undertake a further year of full-time study to obtain an Honours degree. The Honours degree allows students to further specialise in areas of accounting, finance, taxation or auditing.

## BACHELOR OF COMMUNICATION

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **000326M**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Communication?**
Communication is a global industry that has significant cultural and commercial impact throughout the world. It is dynamic, exciting and can exert enormous power and influence. Both at university and in the labour market, you will need to display initiative and persistence, produce thoughtful and creative work, and be highly motivated. You will learn how to rely on your own efforts and how to both negotiate and contribute to working within team environments.

**Why study with us?**
The program staff have proven professional track records in the areas in which they teach and carry out research. Our excellent facilities include sound and recording studios of industry standard.

**What will you study?**
Depending on your particular area of interest you can choose a major or double major in Journalism, Public Relations or Media Production – including streams in Multimedia, Video and Audio or Media Studies. Graduates will be critically and analytically aware of the cultural, economic and social significance of communication in a complex and rapidly changing global environment.

**Journalism** students will study professional writing, public affairs, magazine journalism, creative writing, applied communication studies, communication and discourse, broadcast journalism, editing multimedia publications, and media interviewing.

**Media Studies** students will study a range of subjects including media, communication and culture, film and television studies, the contemporary cinema, contemporary popular music: cultural production and use, audience studies, media ownership and control, international media studies, technology, media and culture as well as popular culture and society.

**Media Production** students will study photomedia, media production: video, television, radio and sound professional writing, visual communication technology, music video, web multimedia, and visual communication imaging.

**Public Relations** students will undertake studies in professional writing, public relations practice, public affairs, public relations issues and strategies, communication and discourse, applied public relations, editing multimedia publications and media interviewing.

### Career Opportunities

Career opportunities include multimedia production, public relations, journalism, digital video and television, audio production and post production, professional and creative writing, broadcast journalism, radio broadcasting and production, media research and analysis, audience research and analysis, research and policy development. Employment is available in both the public and private communication sectors.

### Sample Program

#### Year 1

- Introduction to Communication Studies
- Introduction to Digital Communication
- Two courses from the Major*
- Introduction to Media Production
- Three electives

#### Year 2

- Media Structures and Practices
- Media, Law, Ethics
- Two courses from the Major*
- Audience Studies
- Three electives

#### Year 3

- Communication and Discourse
- Communication, Creativity and Cultural Production
- Four courses from the Major*
- Two electives*

* Electives and directed courses – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **COMMUNICATION (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **027449M**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

Students who excel during the Bachelor of Communication degree may undertake a further year of full-time study to obtain an Honours degree. The Honours degree allows students to further specialise in specific areas and may lead to enhanced career opportunities.

# BACHELOR OF **COMPUTER SCIENCE**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **001604G**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Computer Science?**
Computer science spans a wide range of areas including algorithmic problem solving, artificial intelligence, robotics, computer graphics, bioinformatics and data security. Computer scientists perform challenging programming tasks and supervise other programmers, they devise new ways to use computers and develop effective solutions for computing problems.

**Why study with us?**
You are encouraged to internationalise your degree by participating in the University's exchange program and there are scholarships available to help you. Our computer science graduates are among the best in Australia and are actively recruited by industry.

**What will you study?**
The Bachelor of Computer Science provides you with the skills needed for careers involving the design and implementation of computer software. Studies include algorithms, artificial intelligence, compilers, computer graphics, computer networks, database systems, data security, graphical user interfaces, object oriented technologies, operating systems, theory of computation and web engineering. The program also offers you opportunities to pursue postgraduate studies and research.

**Professional Accreditations**
The degree meets the highest academic standards of the Australian Computer Society.

**Career Opportunities**
Computer science graduates enjoy excellent career prospects as the majority of businesses worldwide require personnel skilled in programming, systems analysis and design, and the management of computer resources. Examples of career opportunities include computer games developer, graphics and animation expert for movies and television, health informatics professional, internet web engineer, developing and enhancing defence and security systems, bio-informatics and the human genome, developing adaptive robotics systems, systems engineering, and developing new software systems for business and engineering.

**Sample Program**

**Year 1**

- Discrete Mathematics
- Introduction to Software Engineering 1
- Introduction to Software Engineering 2
- Computer Engineering 1
- Internet Communication
- Mathematics 111, 112
- Introduction to Engineering Practice

**Year 2**

- Introduction to Algorithmics
- Formal Languages and Automata
- Comparative Programming Languages
- Software Development
- Database Management Systems
- Operating Systems
- Electrical Circuits*
- Elective*

**Year 3**

- Machine Intelligence
- Compiled Design
- Advanced Software Process*
- Object-Oriented Software Engineering*
- Computer Graphics*
- Networks and Distributed Computing*
- Two electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **COMPUTER SCIENCE (HONOURS)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **000758J**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

This additional program is normally undertaken by students with an excellent academic record in the Bachelor of Computer Science degree who wish to broaden their knowledge as further preparation for professional practice or to meet the requirements for admission to a research degree. Students enrolled in the program are required to complete a project and directed electives in computer science or software engineering.

# BACHELOR OF **CONSTRUCTION MANAGEMENT (BUILDING)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **003693G**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Construction Management?**
Construction managers require a diverse range of skills to successfully manage the delivery of complex construction projects. Rewards for successful construction managers are considerable as the industry is experiencing a chronic skills shortage. There are opportunities for international travel and good salaries soon after graduation.

**Why study with us?**
You will develop a holistic view of the construction project environment through problem-based learning and reflective professional practice, using real world situations faced by building and quantity surveying professionals.

**What will you study?**
The Bachelor of Construction Management helps you develop skills to monitor and control the technical process of construction, as well as manage the legal and financial aspects of the building industry. The program is offered in mixed-mode, allowing you the flexibility to either attend classes at our Callaghan campus, or to learn in a virtual environment wherever you are located. (Please note that the distance program is designed for those currently working in the construction industry.)

**Professional Accreditations**
The program is fully endorsed by professional bodies both in Australia and internationally, and currently holds accreditation from the Australian Institute of Building (AIB), the Australian Institute of Quantity Surveying (AIQS), the Chartered Institute of Building (CIOB) and the Singapore Institute of Surveyors and Valuers. Graduates may also seek membership of the Master Builders Association, the Australian Institute of Project Managers and the Australian Institute of Building Surveyors.

**Career Opportunities**
There are a diverse range of career opportunities for graduates in construction management and quantity surveying. Graduates can be self-employed consultants or work for building/civil engineering contractors, property developers, project managers, facilities managers or quantity surveying practices. There are also job opportunities as sub-contractors, materials suppliers and also in plant and equipment organisations. Graduates might also work as researchers, academics, or with government organisations.

**Sample Program**

**Year 1**

- Construction Integrated Project 1
- Communication in the Built Environment 1
- Construction Technology 1
- Construction Ecology 1
- Construction Law and Legislation
- Building Condition Reports and Surveying
- Communication in the Built Environment 2
- History and Theory in the Built Environment 1

**Year 2**

- Construction Integrated Project 2
- Measurement of Building Works
- Economics in the Built Environment
- Health and Safety in the Built Environment
- Estimating and Tendering
- Construction Procurement
- Construction Technology 2
- Elective*

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**Year 3**

- Construction Business Management
- Construction Project Planning
- Construction Ecology 2
- Construction Technology 3
- Construction Integrated Project 3
- Construction Integrated Project 4
- Research in the Built Environment 1
- Elective*

**Year 4**

- Construction Technology 4
- Construction Ecology 3
- Research in the Built Environment 2
- Construction Integrated Project 5
- Construction Integrated Project 6

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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## BACHELOR OF **DESIGN (ARCHITECTURE)** MASTER OF **ARCHITECTURE**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **001600A/062019J**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Five years**

Commencement: **February**

**Why choose Bachelor of Architecture?**
Architecture is a creative and exciting profession that combines technology, ecology, philosophy, art and science to solve the problems of the built environment. The buildings in which we live and work shape our experiences, our memories and the way we view the world. Homes, office buildings, opera houses, art galleries, schools and factories are all designed by architects.

**Why study with us?**
The architecture program is made up of two degrees, the Bachelor of Design (Architecture) which involves three years of study, followed by the Master of Architecture, which requires two further years. The program simulates real-life situations using problem-based learning, which enables students to acquire the skills to become effective professional practitioners. The Callaghan campus provides a unique studio environment, where every student can set up a permanent work place in the Architecture Design Studio building. Our graduates are highly sought by the profession.

**What will you study?**
The program is delivered using a mixture of problem-based learning, design studio tutoring and traditional teaching. Design studio courses use an innovative problem-based approach to learning in which a range of concerns (technical, ecological, historical and managerial) are integrated into the process of architectural design. In conjunction with the Architectural Design Studio, a range of courses support the development of essential skills and focused knowledge. These courses are in the areas of construction technology, construction ecology, communication, computing, research and the history and theory of architecture. Two open electives are included in the program.

**Professional Accreditations**
The Master of Architecture is recognised for registration by the State Boards of Architects, the Architects Accreditation Council of Australia and the Royal Australian Institute of Architects. Completion of the Master of Architecture degree program together with a minimum of two years professional experience and a professional practice exam (conducted by the state boards of architects) leads to registration as an architect. The Bachelor of Design (Architecture) may be awarded as an ordinary degree or with merit.

**Career Opportunities**
Graduates of the Bachelor of Design (Architecture) usually proceed to the Master of Architecture program, but if not, are able to pursue a variety of paraprofessional careers such as technicians, drafters, managers and designers in public and private architectural practices and associated industries.

There is a diverse range of career opportunities for Master of Architecture graduates. As well as careers in private architectural practice, opportunities include careers in town planning, construction, project management, property development, overseas aid, infrastructure planning, research, journalism, criticism, restoration and conservation. The programs have an excellent record of preparing students for employment, with graduates continually sought by architecture practices across the world.

**Sample program**

**Bachelor of Design (Architecture)**

**Year 1**

- Architectural Design 1A and 1B
- Communication in the Built Environment 1 and 2
- Construction Technology 1
- Construction Ecology 1
- History and Theory in the Built Environment 1

**Year 2**

- Architectural Design 2A and 2B
- Communication in the Built Environment 3 and 4
- Construction Technology 2
- History and Theory in the Built Environment 2
- Open Elective

**Year 3**

- Architectural Design 3A and 3B
- Construction Technology 3
- Construction Ecology 2
- History and Theory in the Built Environment 3
- Open Elective

**Master of Architecture**

**Year 4 (1)**

- Architectural Design 4A and 4B
- Construction Technology 4
- Construction Ecology 3
- Research in the Built Environment 1
- Architectural Management

**Year 5 (2)**

- Architectural Design 5A and 5B
- Research in the Built Environment 2
- Architectural Practice

# BACHELOR OF DEVELOPMENT STUDIES

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **031290F**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Development Studies?**
The need for environmentally sustainable and equitable development is one of the most serious issues facing the contemporary world. The Bachelor of Development Studies provides opportunities to study the causes and consequences of unequal development and assess policy options for a more equitable and sustainable future.

**Why study with us?**
The Bachelor of Development studies is one of Australia's only undergraduate degrees devoted to studying international development. Graduates work in exciting and worthwhile jobs both in Australia and overseas.

**What will you study?**
The program examines globalisation processes from a variety of approaches, with a focus on urban and regional impacts, sustainable development and cultural diversity. The program emphasises: the development of critical thinking skills; rationales for ethical action and social and environmental responsibility; recognition of cultural differences and viewpoints; effective communication skills; and, the capacity to use information technology and to manage information. Four major sequences are available – Urban and Regional Development ,Cultures and Citizenship, Environmental Sustainability, and Globalisation and Economic Development.

**Urban and Regional Development:** students can study courses such as society and space, cities and regions, decolonisation, sustainable society, environmental legislation and planning, politics, policy and government, globalisation, applied social research and human geography.

**Cultures and Citizenship:** students study a variety of courses including sex, gender and social movements, youth culture and risk, drugs in culture, geographies of development, Indigenous peoples of the contemporary world, and human rights, advocacy and social change.

**Environmental Sustainability:** students select a variety of subjects which may include social development and the environment, the sustainable society, cities and regions, leisure, tourism and environmental issues, technology and human values, sociology of food, environment and society, and environmental legislation and planning.

**Globalisation and Economic Development:** students can study international trade and finance, politics of globalisation, environmental economics, politics and power in Asia, global power and world order, cities and regions, political theory and social change, and regime change and altered states.

**Career Opportunities**
Examples of career opportunities include jobs in policy formulation, implementation, field investigations and administration of development matters. Potential employers are government departments, aid agencies, non-government organisations and a growing number of international corporations.

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**Sample Program**

**Year 1**

- Microeconomics for Business Decisions
- Environmental Values and Ethics
- Global Poverty and Development
- Society and Culture: A Sociological Introduction
- Macroeconomics in the Global Economy
- Social Development and the Environment
- Introduction to Social and Cultural Anthropology
- Introduction to Human Geography
- Introduction to Politics

**Year 2**

- The Sustainable Society
- Geographies of Development
- Foundation of Modern Politics
- Three courses from the major
- Two electives*

**Year 3**

- Rethinking Development
- Four courses from the major
- Three electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

## BACHELOR OF DEVELOPMENT STUDIES (HONOURS)

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **050541A**

Location of Study: **Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

Students who excel in a Bachelor of Development Studies may undertake a further year of full-time study to obtain an Honours degree. The Honours degree allows students to further specialise in specific areas, undertaking a range of research and analysis operations appropriate to the field of international development. An honours degree can enhance graduate career opportunities.

## BACHELOR OF EARLY CHILDHOOD TEACHING

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **037771G**

Location of Study: **Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February**

**Why choose early Bachelor of Childhood Teaching?**
The early years of any child's life are crucial to their later development – emotionally, educationally and physically. To be entrusted with teaching and caring for young children is an enormous responsibility but also a great privilege. Early childhood teaching is a truly rewarding professional career where you can really make a difference.

**Why study with us?**
The University of Newcastle runs one of the largest, most comprehensive and highly respected teacher education programs in Australia. At the Ourimbah campus you'll also have regular access to Yerra, the on-campus Early Childhood Studies Centre. Dedicated to teaching and research, Yerra is shared by students and staff from the University and TAFE NSW (Hunter Institute) early childhood programs. The principal functions of the Centre are to stimulate research into the children's development and learning, provide opportunities for innovative teaching and learning and develop inter-sectoral cooperation.

**What will you study?**
The program integrates discipline studies with education studies. It has been designed to prepare graduates for work as teachers and directors in early childhood services prior to school entry. Courses include learners and learning, learning through play, leadership, communication and change management, and many others.

**Career Opportunities**
Graduates of the Bachelor of Early Childhood Teaching will qualify for employment in early childhood services licensed by the NSW Department of Community Services (or equivalent agencies in other Australian states). Employment opportunities exist in long day-care centres, pre-schools, and a range of other children's services.

**Sample Program**

**Year 1**

- Learners and Learning
- Foundations for Teaching
- Foundations for Societies and Cultures
- Language and Linguistics
- Foundations in Early Childhood Education
- Development in Context 1
- Music, Art and Humanity
- Health and Wellbeing 0-5

**Year 2**

- Development in Context 2
- Learning Through Play
- Australian Families: A Sociological Analysis
- Mathematics and Technology
- Emerging Literacy and Numeracy
- Professional Experience 2
- Learning Through Creative Arts 0-5
- Approaches to Early Childhood Curriculum

**Year 3**

- Professional Experience 3
- World and Work: The Whole Teacher
- Early Childhood Literacies
- Program Development and Evaluation
- Special Education for Early Childhood
- Leadership, Communication and Change Management
- Two electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **EDUCATION**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **032762D**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Four years**

Commencement: **February, July**

This program is only available to students with relevant industry work experience and that comply with the NSW Institute of Teachers' subject content requirements*.

Applicants without relevant industry experience who wish to gain teaching qualifications should apply for entry into one of our other teaching degrees.

* Various countries, states and school systems can have different employment criteria, so it is vitally important that you check with your specific education authority before you apply for our program, to ensure that it meets all the necessary requirements for teacher registration and accreditation

**Why choose Bachelor of Education?**
The Bachelor of Education degree is an internationally recognised program of teacher preparation, which has a range of offerings that cater for the variety of curriculum areas corresponding to broad international teacher training specialisations. The University of Newcastle uses the principle of Recognition of Prior Learning (RPL) to allow students with appropriate qualifications and experience to complete the program in approximately two years.

Students with appropriate qualifications and experience may accelerate their studies and complete the program in a reduced amount of time via a calculated recognition of prior learning.
This includes:

- Experience and qualifications in industry and/or
- Experience and qualifications in teaching

Specialisations:

- English
- Design and Technology (Industrial, Textile, Food)
- Mathematics
- Computing Technology Information Systems
- Music
- Science
- Health and Physical Education

**Why study with us?**
The Bachelor of Education has a range of teaching specialisations for students to choose from. To gain RPL the student must choose a specialisation that is relevant to their current qualifications and experience.

**Areas of study include:** Callaghan campus: design and technology (industrial technology, textiles technology), science, English, mathematics, PDHPE, and music.

Ourimbah campus: Food technology, Computing technology information systems.

**What will you study?**
The Bachelor of Education with RPL entry is an accelerated program. While students may complete the program in two and a half years, the content covered in the timeframe may be more than would normally be covered in this time. Once enrolled, students attend mainstream education courses and are required to meet the established professional standards for the program.

The program includes two four-week periods of in-school professional teaching experience, and a 10 week internship. In-school professional teaching experiences may involve school placements in a variety of geographic regions outside the Newcastle area.

**Career Opportunities**
Graduates qualify for employment with the NSW Department of Education and Training, Catholic and independent schools, and may also gain employment as industrial trainers.

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# BACHELOR OF **EDUCATION (EARLY CHILDHOOD)**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **040718G**

Location of Study:
**Central Coast – Ourimbah**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
The program integrates discipline studies and educational studies and prepares graduates for teaching in early childhood (nought to five years) settings as well as in primary schools, (five to eight years). Courses include learners and learning, foundations for teaching, sociology, linguistics, learning through play, mathematics and technology and learning through creative arts.

**Professional Accreditations**
Graduates of the Bachelor of Education (Early Childhood) will qualify for registration with the Department of Community Services (or equivalent agencies in other Australian states) for employment in early childhood services and with the New South Wales Department of School Education and Catholic and independent schools for employment in schools.

**Career Opportunities**
Graduates qualify for employment in early childhood services licensed by the NSW Department of Community Services (or equivalent agency in other Australian states), Government, Catholic and independent schools. Employment opportunities exist in long day-care centres, pre-schools and schools.

**Sample Program**

**Year 1**

- Learners and Learning
- Foundations for Teaching
- Foundations for Societies and Cultures
- Health and Wellbeing 0-5
- Language and Linguistics
- Foundations in Early Childhood Education
- Development in Context 1
- Music, Art and Humanity

**Year 2**

- Development in Context 2
- Learning Through Play
- Australian Families: A Sociological Analysis
- Mathematics and Technology
- Emerging Literacy and Numeracy
- Professional Experience 2
- Learning Through Creative Arts 0-5
- Approaches to Early Childhood Curriculum

**Year 3**

- English K-6 Curriculum
- Contexts of Teaching
- Professional Experience 3
- Health and Physical Education
- Early Childhood Literacies
- Program Development and Evaluation
- Special Education in Early Childhood
- Leadership, Communication and Change Management
- Social and Environmental Studies Curriculum

**Year 4**

- Creative Arts K-6 Curriculum
- Aboriginal Education Policy and Issues
- Teaching and Learning in Mathematics K-6
- Science and Technology in Classrooms
- World and Work: The Whole Teacher
- Professional Experience 4: Internship

**Honours**
To qualify for admission to the degree with Honours in Teaching, a student must achieve a Grade Point Average equal to or greater than 5.5 over the final two years of the double degree program.

# BACHELOR OF **ENGINEERING PROGRAMS**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

Engineering is the application of scientific and mathematical principles to develop economical solutions to technical problems, creating products, facilities, and structures that are useful to people. Engineers use imagination, judgement, and reasoning to apply science, technology, mathematics, and practical experience. The result is the design, production, and operation of useful objects or processes. The broad discipline of engineering encompasses a range of specialisations, which focus on the issues associated with developing a specific kind of product, or using a specific type of technology. If you want to be at the centre of a profession that makes a significant contribution to society, you can make no better choice than engineering.

The Bachelor of Engineering offers specialisations in chemical, civil, computer, electrical, environmental, mechanical, mechatronics, software and telecommunications engineering. Students select their specialisation at the start of their first year. Transfer between specialisations is possible under certain conditions. You will have the opportunity to undertake an industry-related project in your final year of study and must also complete a period of industrial experience during the program.

**Why study with us?**
As an engineering student at the University of Newcastle you will have access to world class facilities, and will be taught by high quality teaching staff from around the world who maintain an active role within their industry. The program benefits from a high level of involvement with industry and the profession in its development and delivery, and 96 per cent of students find employment within four months of graduating. Our degree is accredited nationally and internationally, and you are encouraged to internationalise your degree by participating in the University's exchange program. There are scholarships available to help you. You have the choice of studying your first year at either our Callaghan or Ourimbah campus.

**Professional Accreditations**
These degree programs are a accredited by Engineers Australia and other affiliated international organisations. Those studying the chemical specialisation also receive accreditation from the Institution of Chemical Engineers, United Kingdom. Students undertaking the computer specialisation also receive accreditation from the Australian Computer Society. This ensures recognition of your qualifications throughout Australia and in many overseas countries.

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# BACHELOR OF **ENGINEERING (CHEMICAL)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **018788M**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Chemical Engineering?**
Chemical engineering is at the forefront of efforts to address the most significant issues facing the international community in the 21st Century, the provision of potable water, overcoming greenhouse gas emissions, and the establishment of clean energy sources. Chemical engineering is concerned with the processing of gases, liquids and solids for the purpose of producing everyday products from toothpaste to steel, while also applying their skills to solve environmental problems. Chemical engineers are in demand from a broad range of sectors, especially the mining industry where they are urgently needed to manage the processing of the raw materials. Chemical engineering is a well established discipline, with perhaps the greatest accomplishments yet to be realised, especially in the emerging fields of biotechnology, microfluidics and nanotechnology.

**What will you study?**
Throughout the program you will complete a series of core and elective courses covering fundamental process engineering topics such as heat and mass transfer; thermo-fluid engineering; particle technology; reaction engineering; separations involving solids, liquids, and gases; process control; plant design for clean and economical processes; project management; and research. You will have the opportunity to undertake an industry-related project in your final year of study and must also complete a period of industrial experience during the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia, Royal Australian Chemical Institute, Australian Institute of Energy, Institute of Chemical Engineers (Great Britain) and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Chemical engineers can be found in a wide range of industries such as, manufacturing, pharmaceuticals, healthcare, biotechnology, nanotechnology, microfluidics (fluid flow in micro-vessels), biomedical, microelectronics, advanced materials, environmental health, construction and design, pulp and paper, petrochemicals, energy production and reduction in greenhouse gas emissions, food and drink processing, specialty chemicals, water treatment, polymers, ceramics, mining and metallurgical extractive industries, engineering consultancy, business services, and safety. Chemical engineers can also be found in the worlds of banking, insurance, public relations, politics, patent law, media and even in space exploration.

**Sample Program**

**Year 1**

- Introductory Chemistry 1, 2
- Mathematics 111, 112
- Introduction to Engineering Computations
- Integrated Physics
- Introduction to Engineering Computations
- Introduction to Engineering Practice

**Year 2**

- Heat Transfer and Design Energy Systems
- Fluid Mechanics
- Calculus of Science and Engineering
- Transfer Processes Laboratory
- Partial Differential Equations in Engineering
- Particle Processing
- Green Engineering
- Safety and Risk

**Year 3**

- Mass Transfer and Separation Processes
- Thermodynamics
- Engineering Project Management
- Technology and Human Values
- Modelling of Separation Processes
- Research Laboratory
- Directed Elective*
- General Elective*

**Year 4**

- Automatic Control
- Kinetics and Reaction Engineering
- Project Management and Innovation in Process Industries
- Chemical Engineering Project
- Environmental Process Technology*
- General Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **ENGINEERING (CIVIL)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **018786B**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Civil Engineering?**
The civil engineer's job is to solve problems relating to the infrastructure of modern society, and to consider the environmental impact, efficiency and cost effectiveness of this infrastructure. For example, civil engineers may be involved in establishing whether or not a building design is safe, or may inspect and analyse a dam wall to see if it is structurally sound. Alternatively they may be involved in the design and placement of wildlife tunnels in new road works or work in earthquake reconstruction. Civil engineers enjoy excellent career prospects as they are involved in so many facets of everyday life and its associated infrastructure.

**What will you study?**
In each year of the program, theoretical studies are complemented by practical laboratory and field exercises. You will complete 12 weeks of industrial experience during the program and have the opportunity to undertake an industry-related project in your final year of study. Areas of study include structural, geotechnical, water, transportation and environmental engineering, management, and technology and human values.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Civil engineers find employment in consultancy practices, private industry, or government bodies in both the city and the country. They work in design offices, construction or field sites and in various areas of specialisation such as structural, geotechnical or water engineering. Civil engineers design, build and manage society's infrastructure, including roads, bridges, airports, major buildings, dams and water catchments, earthquake reconstruction, flood control works, harbours and wharves. Wide professional recognition ensures that graduates can gain employment in many overseas countries.

**Sample Program**

**Year 1**

- Engineering Mechanics
- Mathematics 111, 112
- Integrated Physics
- Surveying 1, 2
- Introduction to Engineering Practice
- Introduction to Engineering Computations

**Year 2**

- Theory of Structures 1
- Geomechanics 1
- Calculus of Science and Engineering
- Technology and Human Values
- Engineering Computations and Probability
- Civil Engineering Materials
- Fluid Mechanics
- Transportation Engineering and Design

**Year 3**

- Theory of Structures 2
- Steel Design
- Geomechanics 2
- Hydrology
- Reinforced Concrete Design
- Water Engineering
- Stress and Finite Element Analysis
- General Elective*

**Year 4**

- Theory of Structures 3
- Geotechnical and Geo – Environmental Engineering
- Structural Engineering Project
- Water Engineering Project
- Geotechnical Engineering Project
- Engineering Project Management
- Project
- General Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **ENGINEERING (COMPUTER)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **001607E**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Computer Engineering?**
Computer engineering is a major part of the information and communication technologies (ICT) sector, which is bringing evolutionary changes in our societies, entertainment systems and industrial applications. The importance and spread of these technologies are on the rise, encompassing all aspects of human activities. Computer engineers can design and develop applications as diverse as aircraft control systems to high tech toys such as Playstation or the Xbox. Many students find employment in their respective professional organisations before completing the degree.

**What will you study?**
The emphasis is on giving students a well-rounded mix of hardware and software topics.
The hardware side involves a range of studies from basic electronics to microprocessor design and advanced computer architectures. Software courses include different programming languages and data structure, with special emphasis on software for embedded systems. Core courses are from the areas of computer engineering, digital systems, software engineering, signal processing and electronics. You will have the opportunity to undertake an industry-related project in your final year of study and must also complete 12 weeks of industrial experience throughout the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Computer engineering graduates have excellent employment prospects and may be employed in computer design and development, instrumentation and control, ICT infrastructure, defence applications, healthcare systems and communication networks/internet development. Jobs may include research and development, applications development and systems management, digital control systems, image processing, digital signal processing, tracking and surveillance, measurement and sensing, data processing systems, software engineering, biomedical engineering, power systems and heavy industry.

**Sample Program**

**Year 1**

- Electrical Engineering 1
- Introduction to Engineering Practice
- Mathematics 111, 112
- Advanced Physics 1, 2
- Computer Engineering 1
- Introduction to Software Engineering 1

**Year 2**

- Sensors and Actuators
- Introduction to Electronics
- Electrical Circuits
- Calculus of Science and Engineering
- Signals and Systems
- Computer Engineering 2
- Engineering Mathematics 2
- Introduction to Software Engineering 2

**Year 3**

- Programmable Logic Design
- Engineering Project Management
- Introduction to Electrical Engineering Design
- Compiler Designs*
- Advanced Software Process*
- Telecommunications Networks*
- Embedded Systems
- Elective*

**Year 4**

- Final Year Engineering Project
- Technology and Human Values
- Advanced Computer Systems
- Signal Processing*
- Data Security*
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **ENGINEERING (ELECTRICAL)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **018787A**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Electrical Engineering?**
Electrical engineering is a professional career that utilises mathematics, science, technology and problem solving skills to design, construct, and maintain products and services that underpin today's modern society. It is a rapidly advancing area which is both challenging and exciting, as well as being a rewarding field in which to study. Electrical engineering is the major area of expertise behind control and automation, telecommunications, signal processing, analogue and digital electronics, and power generation and distribution. It is also becoming increasingly vital in countries trying to improve their capacity in new and emerging fields such as nano-technology, robotics and renewable energy. Some organisations offer scholarships or cadetships for trainees, and many students are offered jobs before completing their degrees.

**What will you study?**
In the first years of the program students study the fundamental concepts of electrical engineering, which include electrical circuits, electronics, software, mathematics, physics and engineering management. In the later years you are able to choose the majority of your courses from quite a diverse list of electives enabling you to pursue studies in your preferred area of interest. Electives courses include analog, digital and switching electronics, control and automation, computer hardware, electromagnetics, engineering management, microprocessor applications, power systems, signal processing and telecommunications. You will have the opportunity to undertake an industry-related project in your final year of study and must also complete 12 weeks of industrial experience throughout the program.

**Professional Accreditations**
Our degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Electrical engineers are in constant demand across a wide range of industries both nationally and internationally. Graduates have the potential to work in areas as diverse as renewable energy, electronics, robotics, industrial automation, control, electrical drives, power and energy systems, telecommunications and biomedical instrumentation. Graduates from the University of Newcastle are highly regarded by industry, as indicated by their continual high rate of employment.

**Sample Program**

**Year 1**

- Electrical Engineering 1
- Introduction to Engineering Practice
- Mathematics 111, 112
- Advanced Physics 1, 2
- Computer Engineering 1
- Introduction to Software Engineering 1

**Year 2**

- Machines and Sensors
- Introduction to Semiconductor Physics
- Electrical Circuits
- Calculus of Science and Engineering
- Signals and Systems
- Computer Engineering 2
- Engineering Mathematics 2
- Elective*

**Year 3**

- Engineering Project Management
- Electronics
- Introduction to Electrical Engineering Design
- Electric Machines and Powersystems
- Signal Processing*
- Digital Communications*
- Programmable Logic Design*
- Automatic Control*

**Year 4**

- Final Year Engineering Project
- Technology and Human Values
- Electrical Systems*
- Electronics Design*
- Telecommunications Networks*
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **ENGINEERING (ENVIRONMENTAL)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **011012E**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Environmental Engineering?**
Environmental engineers find sustainable solutions for complex environmental problems, including water pollution and soil erosion. They plan, manage and operate engineered systems so that society can co-exist with the environment in a sustainable way. They are experts in assessing whether the design and construction of a project will potentially damage the environment, and how this can be prevented. This involves interaction with the environment and with people. Written and oral communication skills are essential.

**What will you study?**
You will complete major studies in environmental and water engineering as well as specialise in chemical engineering, geotechnical engineering or natural science. Minor studies include biology, chemistry, environmental planning and design, fluid mechanics, land and water management, surface and groundwater pollutant transport, and waste treatment. In the final years, practising engineers work closely with you in design classes, providing real-world insight into environmental engineering. You will have the opportunity to undertake an industry-related project in your final year of study and must also complete 12 weeks of industrial experience throughout the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Environmental engineers are employed with consultants preparing environmental impact assessments for major projects, in critical analysis of these assessments, and in project development.

Newcastle graduate environmental engineers are in high demand. The wide range of skills developed throughout the degree program enables our graduates to work in a large variety of key occupations. Examples include consultancy, design and development, the mining and construction industries, private consultancies, government corporations, and agencies responsible for the environment. In particular, environmental engineering graduates have excellent overseas opportunities.

There are positions with regulatory authorities, where knowledge of pollution generation and abatement systems for various industries is important in regulating discharge controls. Graduates also work in industry on the design of equipment to meet these regulatory controls.

**Sample Program**

**Year 1**

- Introductory Chemistry 1, 2
- Engineering Mechanics
- Mathematics 111, 112
- Surveying 1
- Introduction to Engineering Computations
- Introduction to Engineering Practice

**Year 2**

- Fluid Mechanics
- Environmental Chemistry
- Calculus of Science and Engineering
- Engineering Computations and Probability
- Spatial Data Systems and Remote Sensing
- Geomechanics
- Two courses from either the Chemical Natural Science or Geotechnical Engineering strand

**Year 3**

- Hydrology
- Environmental Process Technology
- Environmental Legislation and Planning
- Hydrobiological Modelling
- Contaminant Hydrogeology
- Water Engineering
- Land Surface Process and Management
- Strand course*

**Year 4**

- Engineering Project Management
- Environmental Engineering Project 1
- Environmental Engineering Project 2
- Project 2
- Four strand courses*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **ENGINEERING (MECHANICAL)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **018795A**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Mechanical Engineering?**
Mechanical engineers work to improve the design, safety and energy efficiency of the machines that support industry and society – machines such as CD players, air conditioners, wheelchairs, cars, lifts and aircraft. This degree program is based around a strong core of fundamental studies in engineering science, design, computing and management that will provide graduates with lifelong skills in these disciplines. It is perhaps the broadest of all engineering disciplines and allows you to choose from the widest possible range of specialisations.

**What will you study?**
You are given the skills required to analyse and design solutions for a diverse range of engineering problems. Major studies include advanced materials and manufacturing, aeronautics, bulk solids handling, design, engineering management and renewable energy. Throughout the program, theoretical studies are complemented by practical laboratory and field exercises. You have the opportunity to undertake an industry-related project in your final year of study and must also complete 12 weeks of industrial experience throughout the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Mechanical engineering graduates are needed by many industries including power generation, mining, mineral processing, metal and materials production, transport, air conditioning and refrigeration, materials handling and manufacturing. Because of the broad scope of mechanical engineering, students usually choose a specialisation. Employment can be in a consultancy, private industry, or government agency dealing with defence, transport or power generation. Typical professional mechanical engineering positions include engineering design, construction and commissioning of mechanical systems, management of operating plant and projects, and supervision and maintenance of manufacturing processes and automated systems.

**Sample Program**

**Year 1**

- Engineering Mechanics
- Mathematics 111, 112
- Electrical Engineering 1
- Introduction to Engineering Practice
- Integrated Physics
- Introduction to Engineering Computations
- Computer Aided Engineering

**Year 2**

- Calculus of Science and Engineering
- Materials Science and Engineering 1
- Sensors and Actuators
- Engineering Mechanics
- Mechanical Engineering Design 1
- Engineering Computations 2
- Dynamics 2
- Thermofluids

**Year 3**

- Computational Mechanics
- Mechanical Engineering Design 2
- Materials Science and Engineering 2
- Transport Phenomena
- Applied Engineering Thermodynamics
- Mechanics of Solids and Particulates*
- Bulk Materials Handling and Transport*
- Elective*

**Year 4**

- Engineering Economics Analysis
- Engineering Project Management
- Technology and Human Values
- Mechanical Engineering Project/ Seminar A, B
- Automatic Control
- Mechanics of Solids
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program

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# BACHELOR OF **ENGINEERING (MECHATRONICS)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **032765A**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Mechatronics?**
From the control of robots to the optimisation of modern vehicles, from the design of appliances to biomechanics, mechatronics engineers become involved in a diverse range of exciting modern technologies.

Mechatronics engineers are concerned with the design, automation and operational performance of electro-mechanical systems. It is a relatively new area of engineering that is changing rapidly, and employment prospects for graduates are excellent.

**What will you study?**
You will complete core courses from the areas of mechanical and electrical engineering. Major studies include control systems, electronic design, mechanical engineering design, mechanics of fluids and solids, and sensors and actuators. Minor studies include computer-integrated manufacturing, computer networks, electrical systems, engineering management, finite element analysis, heat transfer, microprocessor systems, modelling, and simulation. You have the opportunity to undertake an industry-related project in your final year of study and must also complete 12 weeks of industrial experience throughout the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Mechatronics engineers have excellent employment prospects. The demand for qualified professionals with multidisciplinary skills combining knowledge of mechanical and electronic systems has increased in recent years. Mechatronics engineers specialise in integrated computer controlled mechanical and electrical systems found in the manufacturing and mining industries. They are also employed in electrical plants and companies where automation and process control is required. Career opportunities in this fast-changing field exist in both private industry and publicly funded enterprises.

**Sample Program**

**Year 1**

- Engineering Mechanics
- Mathematics 111, 112
- Introduction to Engineering Practice
- Introduction to Engineering Computations
- Electrical Engineering 1
- Advanced Physics 1
- Computer Aided Engineering

**Year 2**

- Calculus of Science and Engineering
- Engineering Mechanics
- Introduction to Electronics
- Mechanical Engineering Design 1
- Thermofluids
- Dynamics 2
- Introduction to Software Engineering 1
- Computer Engineering 1, 2

**Year 3**

- Materials Science and Engineering 1
- Electrical Circuits
- Electronics
- Mechatronics Design
- Embedded Systems
- Sensors and Actuators*
- Automatic Control
- Elective*

**Year 4**

- Mechatronics Project/Seminar A, B
- Engineering Project Management
- Technology and Human Values
- Transport Phenomena*
- Electric Machines and Power Systems*
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **ENGINEERING (SOFTWARE)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **021335C**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Software Engineering?**
Software engineers are concerned with all aspects of building large, complex, software systems for applications in most areas of society including commerce, engineering, government and research. Many of the most interesting and exciting problems of the future will be solved by large software systems. New software systems must be delivered on time, on budget and correctly. Software engineering is closely related to computer science, however is directed more towards the development of software systems rather than the theories and principles of computing.

**What will you study?**
The software engineering program is a 4-year program comprising 320 units in which students complete specialist studies in software engineering, including software process and metrics, object oriented technologies and design patterns, system software, algorithms, software verification, user interface design, project management, and web engineering etc. Minor studies include computer architecture, distributed computing, real time systems, data security, and machine intelligence etc. Throughout the program, theoretical studies are complemented by practical laboratory and field exercises. You will have the opportunity to undertake a full-year, team based, industry-related project in your final year of your study and must also complete 12 weeks industrial experience throughout the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Employment prospects for graduates are excellent, with strong demand locally as well as globally. Graduates work as software engineers in all areas of industry, government, commerce, engineering and research. They find employment in software product development, banking and finance, defence and security, industrial systems, telecommunications, internet and web engineering, marketing and consulting.

**Sample Program**

**Year 1**

- Introduction to Software Engineering 1, 2
- Mathematics 111, 112
- Discrete Mathematics
- Introduction to Engineering Practice
- Computer Engineering 1
- Internet Communications

**Year 2**

- Introduction to Algorithmics
- Comparative Programming Languages
- Formal Languages and Automata
- Introduction to Web Engineering
- Operating Systems
- Software Development
- Database Management Systems
- Elective*

**Year 3**

- Engineering Project Management
- Advanced Software Process
- User Interface Design*
- Computer Graphics*
- Object-Oriented Software Engineering
- Machine Intelligence*
- Introduction to Telecommunications*
- Elective*

**Year 4**

- Technology and Human Values
- Software Architecture
- Final Year Engineering Project
- Advanced Computer Systems*
- Special Topic A*
- Embedded Systems*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **ENGINEERING (TELECOMMUNICATIONS)**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **032766M**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February, July**

**Why choose Bachelor of Telecommunications Engineering?**
Telecommunications engineering is one of the frontier enabling technologies of the information and communications technology (ICT) sector, which is bringing evolutionary changes in our societies, entertainment and human relationships. The importance and spread of this technology is on the rise, encompassing all aspects of human activities. Telecommunications engineers are required to design and develop applications from mobile phone systems to hi-tech internet based entertainment systems. Telecommunications engineers are becoming pivotal in modern societies that are dependent on the ICT sector for versatile and efficient solutions to rapidly changing lifestyles. Many students find employment in their respective professional organisations before completing the degree.

**What will you study?**
You will complete core courses and electives from a number of areas. Core courses are in the areas of mathematics, physics, electrical engineering, electronics, computer engineering, communication systems and networks, software engineering and wireless systems. Throughout the program, theoretical studies are complemented by practical laboratory and project work. You will have the opportunity to undertake an industry related project in your final year of study and must also complete 12 weeks of industrial experience throughout the program.

**Professional Accreditations**
The degree is accredited by Engineers Australia and, through the Washington Accord, by reciprocating bodies in the U.K., U.S.A. and other overseas countries.

**Career Opportunities**
Telecommunications engineering graduates have excellent employment prospects and may be employed in computer networking/internet development, mobile/wireless communications, telecommunications services, broadcasting and ICT systems. Telecommunications engineers will mainly be involved in the design, management and operation of small to large networks to transmit and process various types of information between different sites. Telecommunication graduates will find employment in a range of ICT areas which include computer engineering and systems, information technology related jobs in government and private sectors, electronic engineering and technical analysis.

**Sample Program**

**Year 1**

- Electrical Engineering 1
- Introduction to Engineering Practice
- Mathematics 111, 112
- Advanced Physics 1, 2
- Computer Engineering 1
- Introduction to Software Engineering 1

**Year 2**

- Introduction to Electronics
- Electrical Circuits
- Calculus of Science and Engineering
- Signals and Systems
- Introduction to Telecommunications
- Computer Engineering 2
- Engineering Mathematics 2
- Elective*

**Year 3**

- Signal Processing
- Digital Communications
- Telecommunications Networks
- Introduction to Electrical Engineering Design
- Advanced Electromagnetism for Scientists and Engineers
- Introduction to Software Engineering 2
- Electronics*
- Programmable Logic Design*

**Year 4**

- Wireless Systems and Advanced Communications
- Engineering Project Management
- Final Year Engineering Project
- Technology and Human Values
- Electronics Design*
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program

# BACHELOR OF **ENVIRONMENTAL SCIENCE AND MANAGEMENT**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **059877D**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Environmental Science and Management?**
The Bachelor of Environmental Science and Management is a science degree program with a specialisation in courses dealing with the environment and its management. The degree program contains core (compulsory) courses, a major and electives.

**Why study with us?**
Our degree program provides the opportunity for students to undertake a placement in the workforce during their degree, gaining valuable 'on the job' experience in the environmental sector. Our program also offers the opportunity for students to study environmental courses at other Australian universities and universities in the United Kingdom and Europe as part of their program.

**What will you study?**
The core courses account for half of the program and incorporate specialisations in environmental planning and impact assessment, environmental sampling, data analysis, statistics, environmental values and ethics, and biological science. A major sequence of study is chosen from one of the following:

**Living Systems (Biodiversity, Conservation and Restoration)** students can study a variety of courses including ecology, Australian fauna, microbial biology, marine biology, reproductive physiology and development, biodiversity project, conservation biology, cellular and organ system laboratory skills for biological systems, conservation and management of Australian flora, marine fish and fisheries, and microbiology.

**Physical Systems (Air, Land and Water)** students can study energy and the environment, analytical chemistry, river basin processes, climatology and soils, global change, geographic information systems, environmental geology, coastal dynamics and protection, Earth's sedimentary rocks and environments, and the earth sciences field course.

**Social Systems (Sustainability, Policy and Futures)** students can study a range of courses such as ecology; the sustainable society; environmental economics; planning for sustainability; community resource management; program management, policy, development and evaluation; technology and human values; leisure, tourism and environmental issues; and cities and regions.

**Career Opportunities**
Opportunities include: working as an environmental officer in local, state or national government departments; conducting research into climate, soil science, water, flora and fauna in government or private agencies; and undertaking environmental management in government regulatory units such as forestry, electricity, water resources, soil conservation and national parks and wildlife bodies. Graduates can also work in aerial and field surveying and computer-based data processing through mapping authorities; tourism and recreation-based research and planning; international aid and development projects through international agencies; and preparing environmental impact statements for government and other bodies as a private consultant.

**Sample Program**

**Year 1**

- Organisms to Ecosystems
- Social Development and the Environment
- Environmental Values and Ethics
- Statistics for the Sciences
- Earth's Dynamic Systems
- Environmental Chemical and Physical Processes
- One course from major
- Elective*

**Year 2**

- Ecology
- Environmental Legislation and Planning
- GIS and Remote Sensing
- Energy and the Environment
- Three courses from major *
- Elective*

**Year 3**

- Applied Environmental Science
- Integrated Impact Assessment
- Four courses from major *
- Two electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **ENVIRONMENTAL SCIENCE AND MANAGEMENT (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **061922G**

Location of Study: **Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

The Honours degree is available to high achieving students as an extra year of study. It allows students to further specialise in areas of biological sciences, chemistry, earth sciences and geography and environmental studies, and can lead to enhanced career opportunities.

# BACHELOR OF **EXERCISE AND SPORT SCIENCE**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **062429B**

Location of Study:
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Exercise and Sport Science?**
If you have an interest in developing elite athletes, educating people about the importance of exercise and working with institutes of sport, the University of Newcastle has an exciting degree program. The Bachelor of Exercise and Sport Science is for future fitness leaders, health and nutrition researchers and advocates in exercise and sports science fields.

**Why study with us?**
Students have the opportunity to enrol in a professional placement course where they are given the opportunity to gain valuable experience with business in the sport and health industry.

**What will you study?**
The courses taken in this degree have theoretical and practical components that reflect the very practical nature of Exercise Science and the requirement for clinical exercise testing skills in the health sector.

The program involves study of human anatomy and physiology followed by courses in:

- exercise physiology
- biomechanics
- sport psychology
- exercise testing and prescription
- sports nutrition
- sports management

**Professional Accreditations**
Graduates of the program who have completed the accreditation sequence and who take a further undergraduate course in the area of Motor Control and Learning will be eligible to apply for membership of the Australian Association of Exercise and Sports Science (AAESS) and seek accreditation as an Exercise Scientist. It is planned in the future that the program may be modified to achieve accreditation with AAESS so that graduates automatically become accredited Exercise Scientists. Students will be informed when this takes place.

**Career Opportunities**
Graduates of the Exercise and Sport Science degree can pursue careers with both the public and private sectors in a variety of roles. The health industry employs graduates as health education/promotion officers and cardiac/respiratory technicians. The sports industry offers opportunities for graduates to work as Sport Scientists with sports institutes and professional teams, coaches, sports development officers, fitness consultants and personal trainers. There are also postgraduate opportunities to specialise in sport nutrition, sport psychology and musculoskeletal rehabilitation, which permits accreditation with the Australian Association of Exercise and Sport Science (AAESS) and a Medicare provider number.

**Sample Program**

**Year 1**

- Musculoskeletal Anatomy
- Biomedical Science Parts 1 and 2
- Foundations of Exercise and Sport Science
- Exercise and Health throughout the Life Cycle
- Physics for Biotechnologists*
- General Psychology*
- Elective*

**Year 2**

- Contemporary Sport Management
- Macronutrients
- Exercise Physiology 1 and 2
- Biomechanics
- Exercise and Sport Psychology
- Statistics for the Sciences
- Introduction to Pharmacology

**Year 3**

- Exercise Testing and Prescription for Health
- Exercise Testing and Prescription for Sport
- Sports Nutrition
- Research Methods
- Professional Preparation and Practice
- Advanced Biomechanics
- Electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF FINE ART

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **030184E**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Fine Art?**
The Bachelor of Fine Art prepares students for professional practice in the fine art and art-related fields. It is designed for creative individuals with the interest and ability to pursue a career as a professional artist.

**Why study with us?**
Fine art at the University of Newcastle has a growing reputation as a program of excellence. Our staff and students consistently exhibit in local and national venues, and play a major role in Newcastle's dynamic public art program. The University boasts a vibrant autonomous student exhibition venue (Watt Space Galleries) and a superb art gallery on-campus which hosts important national and international exhibitions. We also have an active Artist-in-Residence program and benefit from established links with national and international exchange programs.

**What will you study?**

**Year 1**

The first year studio program is designed to ensure that each student is able to gain basic knowledge across a range of fine art disciplines, and encounter ongoing studio-based experience. The art history/theory courses introduce students to current fine art theory and research methods. In the studio program, students experience 2D Art (includes drawing, painting and printmaking); 3D Art (includes fibres/textiles, sculpture and ceramics) and photomedia. There are also optional studies in video.

**Year 2**

Students pursue studies in a minimum of two and maximum of six generic studio courses, a minimum of two art history/ theory courses, and the remainder in electives. Elective courses are related to the generic studies in 2D Art, 3D Art, photomedia, video and art history/theory. Students may opt to take one or two elective courses from other schools in the University.

**Year 3**

Students continue to pursue studies in a minimum of two and maximum of six generic studio courses, a minimum of one art history/theory course, and the remainder in electives.

**Career Opportunities**
As well as becoming professional artists, graduates of this program may find employment in arts education, community arts, galleries and museums. The knowledge of digital imaging technology gained through the program is a great asset to future employment in a wide range of professions.

**Sample Program**

**Year 1**

- Art Theory – Modernism
- Post-Modernism and After
- 2-D Arts: Introduction, Concepts and Techniques
- 2-D Arts: Image, Media and Technology
- 3-D Art: Form and Space
- 3-D Art: Process and Practice
- Photomedia: Introductory Photomedia 1, 2

**Year 2**

Choose two of:

- Australian Art History
- Historical Perspectives on Photomedia
- The Arts in Health and Community
- Analysis of the Visual Image
- Museology and Professional Arts Practice
- The 3D Arts Since 1900

Plus

- Two discipline area courses
- Four electives*

**Year 3**

- Contemporary Art Issues
- Two discipline area courses
- Five electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF
# FINE ART (HONOURS)

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **030185D**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **One year**

Commencement: **February, July**

The Honours program is normally undertaken by students with a superior record in the Bachelor of Fine Art degree who wish to pursue the field of fine arts more deeply. Honours programs on the Callaghan Campus are available in: 2-D Art (Painting/Drawing, Printmaking); 3-D Art (Ceramics, Fibres/Textiles, Sculpture); Photomedia; or Art History/Theory.

# BACHELOR OF
# FOOD SCIENCE AND HUMAN NUTRITION

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **055918K**

Location of Study:
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Food Science and Human Nutrition?**
Food scientists and human nutritionists are concerned with ensuring the world has a nutritious, safe and high quality food supply. Many countries have alarming rates of obesity, diabetes, cancer and heart disease. New healthy, enticing and tasty products are needed to help with these emerging health threats and graduates of this program are in the best position to make a difference.

**Why study with us?**
The Ourimbah campus has a relaxed, friendly atmosphere which allows for easy interactions with staff and other students. We have state-of-the art teaching facilities and dedicated world-class research-active teaching staff who are experts in food science and human nutrition.

**What will you study?**
The program provides a balance of courses in human nutrition, food science and food technology, including topics such as essential nutrients, nutritional needs throughout the life cycle, nutrition for optimal health and disease prevention, nutrients and functional foods, food properties including sensory science, food processing and food product development.

You will also receive a strong background in the sciences which underpin food technology and human nutrition, including the chemistry and biology of nutrients and the attributes of foods and how the human body digests, absorbs and uses foods and nutrients. You will have the opportunity to undertake a major in Food Technology, a major in Human Nutrition or a double major in both Food Technology and Human Nutrition.

**Professional Accreditations**
The revised 2009 program and its Food Technology Major will be submitted for accreditation by the Australian Institute of Food Science and Technology (AIFST). Graduates will be eligible to apply for membership with either AIFST or the Nutrition Society of Australia (NSA). Graduates with the Human Nutrition Major will be able to register as an Associate Nutritionist (ANutr), a Register of Nutritionists established by the NSA. Graduates will also be eligible for associate membership of the Dietetics Association of Australia (DAA).

**Career Opportunities**
Graduates can join the local and global food and nutrition industries which offer competitive remuneration rates and the opportunity for travel and personal challenge. Career opportunities as food scientists and nutritionists are available in the food, community health, nutrition education, government regulation, private consultancy and research sectors including professional positions in consumer relations, marketing, management, product development, quality control and assurance, nutrition and food services and research in universities. Graduates also have the option for further studies towards professional or research higher degrees.

**Sample Program – Food Technology Major**

**Year 1**

- Introduction to Biology 1, 2
- Chemistry for Life Sciences 1, 2
- Food and Nutrition 1, 2
- Biomedical Science 1, 2
- Statistics for the Sciences*

**Year 2**

- Biochemistry
- Macronutrients
- Micronutrients
- Animal Food Products
- Plant Food Products
- Microbial Biology
- Lab Skills for Nutritional Sciences
- Applied Statistics and Research Methods *

**Year 3**

- Food Processing and Quality Management
- Food Product Development
- Food Analysis
- Food Packaging
- Four directed courses

**Sample Program – Human Nutrition Major**

**Year 1**

- Introduction to Biology
- Chemistry for Life Sciences 1, 2
- Food and Nutrition 1, 2
- Biomedical Science 1, 2
- Statistics for the Sciences *

**Year 2**

- Macronutrients
- Micronutrients
- Biochemistry
- Animal Food Products
- Plant Food Products
- Microbial Biology
- Lab Skills for Nutritional Sciences
- Applied Statistics and Research Methods *

**Year 3**

- Nutrition in Health and Disease
- Nutrition Through the Life Cycle
- Functional Foods and Health Claims
- Professional Practice
- Four directed courses

A combination of these courses can be taken to complete a double major in Food Technology and Human Nutrition.

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **INFORMATION TECHNOLOGY**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **044439E**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February**

***This program is currently under review. Please check the University web site for updates.**

**Why choose Bachelor of Information Technology?**
Information technology (IT) is concerned with the use of technology in managing and processing information, especially in large organisations. The Bachelor of Information Technology degree program provides students with opportunities to develop skills in traditional business uses of IT as well as it the growing field of digital entertainment. If you are a good communicator, leader and team player and like to work out what makes things tick, IT could be for you.

**Why study with us?**
Our graduates are technically savy, creative and highly employable. Students work on real world projects. Current students have set up an Internet radio station and review audience, content and funding sources to keep the station operational.

**What will you study?**
From the first year, you will work on industry-relevant projects and case studies, involving such areas as digital media, e-commerce and medical information systems. Students are challenged to be entrepreneurial and adopt innovative practices while adhering to professional standards. In this stimulating environment students learn principles of good design – user interfaces, databases and systems – as well as the technologies operating behind modern interfaces. Emphasis is placed on problem-solving, teamwork, and social and professional responsibility. You can choose from five majors – Information Technology Applications, Management, Digital Entertainment, Business Information Systems, and Web Development.

**Information Technology Applications (Callaghan and Ourimbah)** students will study a range of courses including mathematics, web multimedia, systems and network administration, knowledge management, strategic business systems, animation, information technology applications and software development.

**Management (Callaghan, Ourimbah)** students will study a variety of business applications such as marketing, human resource management, accounting, economics, international business, e-business, business research methods, event management, money and finance and strategic business systems.

**Digital Entertainment (Callaghan):** Students will complete courses in media and video production, music video production, web multimedia, animation, digital special effects, design for new media, technology and social change and digital technologies for media and entertainment.

**Business Information Systems (Callaghan, Ourimbah)** examines the use of information technology to foster and support business activities internally and externally.

**Web Development (Callaghan)** students will study a variety of courses including mathematics, software and web engineering, user interface design, computer graphics, web database interfacing and data security.

### Career Opportunities

Career opportunities include interactive web developers, programmers, business analysts and project managers. It is expected that many graduates of this program will go on to leadership roles in companies involved in the development or innovative application of information technologies.

### Sample Program

**Year 1**

- Internet Communication
- Visual Programming
- Foundations of Information Technology 1
- Courses from Major*
- Elective*

**Year 2**

- Information Systems Programming
- Systems, Software and Development
- Database Management Systems
- Courses from Major*
- Electives*

**Year 3**

- Contemporary Issues in Information Technology
- Information Technology Project
- Courses from Major*
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **INFORMATION TECHNOLOGY (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **055919J**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **One years**

Commencement: **February, July**

Students who excel during the Bachelor of Information Technology degree may undertake a further year of full-time (or equivalent part-time) study to obtain an Honours degree. The Honours degree allows students to further develop their specific areas of interest in Information Technology and can enhance career opportunities.

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## BACHELOR OF LAWS (LLB)

FACULTY OF
**BUSINESS AND LAW**

CRICOS Code: **027443F**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Laws?**
As well as providing the academic basis for admission to legal practice, law is now regarded as a useful general education, fostering understanding of how society functions, and developing skills of analytical and logical reasoning. Some graduates choose not to practice law, but their qualifications enhance their employment opportunities in areas of business, government and administration.

**Why study with us?**
Through its first class facilities and innovative, integrated approach to legal education the University of Newcastle ensures that graduates gain all the necessary theory, skills and experience for a career in legal practice. The University of Newcastle Legal Centre is the centrepiece of this clinical program.

Functioning as both a legal practice and a teaching facility, the Centre provides an intensive clinical placement site for students. By working with the Centre's solicitors and dealing with real clients' actual legal problems, students gain skills and experience in the practice of law.

**What will you study?**
The undergraduate Bachelor of Laws degree program (LLB) is offered as a five year full-time program for those who do not have a Bachelor degree, in combination with the following degree programs – Bachelor of Aboriginal Studies, Arts, Business, Commerce, Communication, Science or Social Science. It is also offered as a three year full-time program for people who have completed a tertiary qualification at Bachelor level from a recognised institution.

The Bachelor of Laws degree meets the academic requirements needed to gain admission to the practice of law in New South Wales and provides a broad understanding of how Australian society functions. Newcastle offers diversity within its Bachelor of Laws degree. After completing three years of full-time study in a combined Law program or one year of full-time study in the graduate Law program, you can either continue to complete the requirements for the Bachelor of Laws degree (the LLB program) or apply to enrol in the Bachelor of Laws / Diploma of Legal Practice.

**The LLB Program**
The Bachelor of Laws is a graduate admission program is usually undertaken over three years of full-time. Students must have completed a tertiary qualification at Bachelor level at a recognised institution before they are eligible for admission to this program.

Students will study constitutional law, administrative law, equity and trusts, civil procedure, evidence, company law, property, jurisprudence, professional conduct and seven electives. Bachelor of Laws students who wish to practise law need to complete a postgraduate professional program approved by the Legal Profession Admission Board (LPAB).

**The Professional Program**
Admission to the Professional Program is competitive. It provides practical experience through a clinical program involving students in the conduct of matters undertaken by the University of Newcastle Legal Centre. Students assist with the advice sessions and ongoing caseload under the supervision of qualified solicitors..

Students will study constitutional law, administrative law, equity and trusts, civil procedure, evidence, company law, property, jurisprudence, professional conduct, commercial law, family law, taxation law, trial process two electives and the clinical courses Legal Practice 1 and Legal Practice 2.

Students who complete this program receive a Diploma of Legal Practice as well as the Bachelor of Laws degree. They are eligible to apply for admission to practise as a legal practitioner without further study.

**Professional Accreditations**
Bachelor of Laws graduates who wish to practise law must also complete postgraduate professional training approved by the Legal Practitioners' Admission Board (LPAB).

**Career Opportunities**
For those graduates who do not practise law, their qualifications provide an understanding of how our society functions and their skills in analytical and logical reasoning will enhance their employment opportunities in areas of business, government and administration. Graduates may also secure employment in legal branches of large corporate organisations.

## BACHELOR OF LAWS (THE PROFESSIONAL PROGRAM)

FACULTY OF
**BUSINESS AND LAW**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Five years**

Commencement: **February**

**Sample Program – Bachelor of Laws (LLB)**

**Year 1**

- Legal System and Method – Parts A and B
- Criminal Law and Procedure – Parts A and B
- Torts – Parts A and B
- Contracts – Parts A and B

**Year 2**

- Constitutional Law
- Evidence
- Administrative Law
- Civil Procedure
- Equity and Trusts
- Property
- Company Law
- Environmental Law*

**Year 3**

- Jurisprudence
- Professional Conduct
- Employment Law*
- Competition Law and Policy*
- Equal Opportunity Law*
- Intellectual Property Law*
- Public International Law*
- Family Law*

* Electives
Please refer to www.newcastle.edu.au/program/undergraduate/
for program updates and the full range of electives associated with this program.

**Sample Program – The Professional Program**
Please note that entry into the Professional Program is competitive.

**Year 1**

- Legal System and Method – Parts A and B
- Criminal Law and Procedure – Parts A and B
- Torts – Parts A and B
- Contracts – Parts A and B

**Year 2**

- Constitutional Law
- Evidence
- Administrative Law
- Civil Procedure
- Equity and Trusts
- Property
- Company Law
- Family Law
- Legal Practice 1 – Parts A and B

**Year 3**

- Jurisprudence
- Professional Conduct
- Taxation Law
- Commercial Law
- Trial Process – Parts A and B
- Legal Practice 2 – Parts A and B
- Two law electives*

Please refer to: – www.newcastle.edu.au/program/undergraduate/
for program updates and the full range of electives associated with this program.

# BACHELOR OF MATHEMATICS

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **001608D**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

***This program is currently under review. Please check the University web site for updates.**

**Why choose Bachelor of Mathematics?**
Mathematics is about gaining a clear and precise understanding of the world and how it changes. Graduates in mathematics are highly sought after in government, industry and business because they are able to analyse data, produce models and predict future trends in a variety of areas. The Bachelor of Mathematics is a flexible program that enables you to develop mathematical skills and combine them with other disciplines. Entry to the program assumes the student already has a high level of mathematical ability at Australian HSC or equivalent standard.

**Why study with us?**
Of those students seeking employment, our Bachelor of Mathematics graduates have a 100% employment rate. *(Good Universities Guide 2007)

**What will you study?**
The Bachelor of Mathematics offers a flexible program with strong mathematics content. Students must undertake at least 11 compulsory or directed (chosen from a list) courses in Mathematics. To make up the 24 courses in the program, students choose electives which can be more Mathematics courses or something totally different. The program may include closely related pathways in statistics, computer science, physics and finance. There is also the possibility of studying unrelated courses, such as French or drama.

**Professional Accreditations**
Graduates may seek membership of the Australian Mathematical Society and the Australian Institute of Banking and Finance.

**Career Opportunities**
Mathematics graduates find work in areas such as international finance, merchant banking, medicine and the public sector. Graduates often enter the fields of research, management, or strategic planning, or work in insurance companies, the Futures market or computer related enterprises. The private sector utilises statisticians in management and technical roles in areas such as finance, bioinformatics, biotechnology, health research, marketing, insurance and engineering. In addition, government agencies and research institutions employ statisticians to design, collect, analyse and interpret data. Mathematics or statistics graduates with a co-major in finance are well equipped for work in the financial sector in areas such as securities analysis, risk management, portfolio management, the options market, the Futures market and mergers and acquisitions.

**Various strands are available including:**

- Bioinformatics
- Financial Mathematics
- Statistics

**Sample Program**

**Year 1**

- Advanced Mathematics 1 and 2 (both compulsory)
- Statistics for the Sciences (compulsory)
- Discrete Mathematics (recommended elective)
- Five electives*

**Year 2**

- Calculus of Science and Engineering (compulsory)
- Linear Algebra (compulsory)
- Analysis (compulsory)

At least one of the following:

- Fundamentals of Statistics
- Modelling Dynamical Processes*
- Operations Management*
- Engineering Mathematics II*
- Four elective (which may include the above courses not already taken)*

**Year 3**

At least 4 of the following:

- Algebra
- Number Theory
- Topology
- An Introduction to Hilbert Space
- Linear Operators
- Fractals
- Statistical Inference
- Time Series Analysis*
- At least four electives (which may include the above courses not already taken).*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **MATHEMATICS (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **000628G**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

Students who perform well during the Bachelor of Mathematics degree may undertake a further year of study to obtain an Honours degree. The Honours degree allows students to further develop their specific areas of interest. Honours programs are available in mathematics and statistics and can enhance graduate career prospects.

# BACHELOR OF **MEDICAL RADIATION SCIENCE (DIAGNOSTIC RADIOGRAPHY)**

FACULTY OF
**HEALTH**

CRICOS Code: **032801B**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Diagnostic Radiography?**
Patients who have illness or injury are often referred for diagnostic imaging. Diagnostic radiography involves being part of a health care team who attempt to confirm a diagnosis for these patients. Diagnostic radiography incorporates many different progressive technologies such as plain x-rays, computer tomography, and MRI, in settings such as accident and emergency or in operating theatres. Diagnostic radiography plays an important role in medicine and health care, and contributes significantly to improving health outcomes for the population. Diagnostic radiographers are responsible for performing the most appropriate medical imaging procedure and evaluating the resultant images. As well as an ability to work with futuristic imaging technologies to image the desired patient anatomy, patient care and communication are also important qualities.

**Why study with us?**
Students have access to the latest technologies in diagnostic radiography on campus and learn essential professional skills prior to professional placement. Students will also attend public and private (both hospital based and community based) facilities and be mentored by qualified diagnostic radiographers.

**What will you study?**
The program involves the learning of professional diagnostic radiography, underpinned by the relevant physical, biomedical and behavioural sciences. Areas of study include clinical education, anatomy and physiology, radiation protection, physics and instrumentation and research.

Australia is recognised as a world leader in Medical Radiation Science education and practice. Our program is accredited by the Australian Institute of Radiography. A professional year is required after you graduate from university and after satisfying professional accreditation, you can practice across the world.

**Career Opportunities**
Graduates of the program are highly regarded and are mainly employed in public and private medical facilities. Medical Radiation Science professionals assume clinical roles from graduate practitioners through to experts and specialists, and upper level management roles such as Chiefs or Directors of Medical Radiation Science services in both the public and private sectors. They also take on roles within higher education, industry, and research. Seniority depends on years of service, and the specialist skills, further education, and knowledge of individuals.

**Assumed knowledge:** English & Mathematics or Physics

**Sample Program for Medical Radiation Science/s**

**Year 1**

- Introductory Physics for the Life Sciences
- Introduction to Health Sciences
- Musculoskeletal Anatomy
- Human Bioscience
- Professional Practice
- Physics and Radiation Protection and depending on the program;
- Diagnostic Radiation Methods 1B (Diagnostic Radiography Program)
  or
- Nuclear Medicine Methods 1B (Nuclear Medicine Program)
  or
- Radiation Therapy Methods 1B (Radiation Therapy Program)

**Year 2**

- Neural and Visceral Anatomy
- Instrumentation 2A and 2B (depending on the program)
- Methods 11A and 11B (depending on the program)
- Professional Practice 2A and 2B (depending on the program)
- Studies in Population Health and Health Promotion
  or
- Foundations of Psychology for Health Professionals
  or
- Engaging Communities: Cross-disciplinary Perspectives
  or
- Working with Men and Boys in Human Services

**Year 3**

- Methods 111A and 111B (depending on the program)
- Professional Practice 3A and 3B (depending on the program)
- Research Methods in Health Sciences
- Elective*

*For program updates and the full range of electives associated with each program, visit: www.newcastle.edu.au/program/11017.html (Diagnostic Radiography), h www.newcastle.edu.au/program/11019.html (Nuclear Medicine) or www.newcastle.edu.au/program/11018.html (Radiation Therapy) for program updates and the full range of electives associated with this program.

# BACHELOR OF **MEDICAL RADIATION SCIENCE (NUCLEAR MEDICINE)**

FACULTY OF
**HEALTH**

CRICOS Code: **032802A**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Nuclear Medicine?**
Nuclear medicine is an exciting medical speciality that uses a mix of sophisticated medical imaging technology, people skills and radioactive chemical compounds (radiopharmaceuticals) to image and/or treat a wide variety of injuries or diseases ranging from elite athletes with sports injuries to cancer patients. Nuclear medicine scientists are medical imaging health professionals whose role is to use advanced medical imaging technology to help patients during a difficult time of injury or illness. Nuclear medicine scientists are responsible for the preparation and administration of radiopharmaceuticals, interviewing and performing patient imaging procedures and performing image analysis. The purpose is to assist medical diagnosis and medical decision making.
The nuclear medicine scientist is required to make decisions regarding the nature and extent of individual procedures and to provide medical practitioners, when requested, an informed opinion regarding the results of procedures, assisting the medical practitioner in a correct diagnosis.
As a result advanced communication skills are essential.

**Why study with us?**
Students have access to the latest technologies in nuclear medicine on campus and learn essential professional skills prior to professional placement. Students will also attend public and private (both hospital based and community based) facilities and be mentored by qualified nuclear medicine scientists.

**What will you study?**
You will study nuclear medicine theory, nuclear medicine instrumentation and radiopharmacy, underpinned by anatomy, physiology, psychology, patient care and research. These domains are strongly integrated with the 25 weeks of professional practice completed over the three years. This means you undertake professional practice in each year of the program where you will have hands-on experience to further develop your professional skills.

**Professional Accreditations**
Australia is recognised as a world leader in Nuclear Medicine education and practice. Our program is accredited by the Australian and New Zealand Society of Nuclear Medicine. A professional year is required after you graduate from university and after satisfying professional accreditation you can work and travel the world.

**Career Opportunities**
Graduates of the Nuclear Medicine program are highly regarded and most are employed in public and private medical imaging practices. Nuclear Medicine Scientists assume clinical roles from graduate practitioners through to experts and specialists. They assume upper level management roles such as Chiefs or Directors of Medical Imaging Services in both the public and private sectors. Nuclear Medicine Scientists also assume roles in higher education and undertake research.

**Assumed knowledge:** English & Mathematics or Physics

**Sample Program for Medical Radiation Science/s**

**Year 1**

- Introductory Physics for the Life Sciences
- Introduction to Health Sciences
- Musculoskeletal Anatomy
- Human Bioscience
- Professional Practice
- Physics and Radiation Protection and depending on the program;
- Diagnostic Radiation Methods 1B (Diagnostic Radiography Program)
  or
- Nuclear Medicine Methods 1B (Nuclear Medicine Program)
  or
- Radiation Therapy Methods 1B (Radiation Therapy Program)

**Year 2**

- Neural and Visceral Anatomy
- Instrumentation 2A and 2B (depending on the program)
- Methods 11A and 11B (depending on the program)
- Professional Practice 2A and 2B (depending on the program)

- Studies in Population Health and Health Promotion
  or
- Foundations of Psychology for Health Professionals
  or
- Engaging Communities: Cross-disciplinary Perspectives
  or
- Working with Men and Boys in Human Services

**Year 3**
- Methods 111A and 111B (depending on the program)
- Professional Practice 3A and 3B (depending on the program)
- Research Methods in Health Sciences
- Elective*

*For program updates and the full range of electives associated with each program, visit: http://www.newcastle.edu.au/program/11017.html (Diagnostic Radiography), h http://www.newcastle.edu.au/program/11019.html (Nuclear Medicine) or http://www.newcastle.edu.au/program/11018.html (Radiation Therapy) for programupdates and the full range of electives associated with this program.

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# BACHELOR OF **MEDICAL RADIATION SCIENCE (RADIATION THERAPY)**

FACULTY OF
**HEALTH**

CRICOS Code: **032803M**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Radiation Therapy?**
Radiation Therapy is one of the main treatment options for patients diagnosed with malignant disease (cancer). Cancer can have a physical, functional, emotional and social effect on a patient. Radiation therapists (RTs) are the health care professionals who design and implement courses of treatment for patients with malignant disease with the aim of curing or alleviating the disease burden. Therapists use highly sophisticated and progressive imaging and treatment equipment to provide effective treatment to patients. Courses of treatment are usually given daily over many weeks therefore therapists have high levels of interaction with their patients, and they need advanced communication skills as they have a significant role in monitoring the wellbeing of patients undergoing treatment.

**Why study with us?**
Students have access to the latest technologies in radiation therapy on campus and learn essential professional skills prior to professional placement in cancer care hospitals and practices. Students will also attend cancer care facilities and be mentored by qualified radiation therapy tutors.

**What will you study?**
The program involves learning professional radiation therapy knowledge and skills underpinned by the relevant biomedical and behavioural sciences. Clinical experience is undertaken in a variety of cancer care settings, including large metropolitan and rural public and private practices.

**Professional Accreditations**
Australia is recognised as a world leader in Medical Radiation Science (MRS) education and practice. Our program is accredited by the Australian Institute of Radiography. A professional year is required after you graduate from university and after satisfying professional accreditation, you can practice across the world.

**Career Opportunities**
Graduates of the program are highly regarded and enjoy a high rate of employment. Australian graduate qualifications are recognised around the world. Graduates are mainly employed in public and private medical facilities. Medical Radiation Science professionals assume clinical roles from graduate practitioners through to experts and specialists. They assume upper level management roles such as Chiefs or Directors of Medical Radiation Science services in both the public and private sectors. Medical Radiation Science professionals also assume roles within higher education and industry, and undertake research. Seniority depends on years of service, and the specialist skills, further education and knowledge of individuals.

**Assumed knowledge:** English & Mathematics or Physics

### Sample Program

#### Year 1

- Introductory Physics for the Life Sciences
- Introduction to Health Sciences
- Musculoskeletal Anatomy
- Human Bioscience
- Professional Practice
- Physics and Radiation Protection and depending on the program;
- Diagnostic Radiation Methods 1B (Diagnostic Radiography Program)

or

- Nuclear Medicine Methods 1B (Nuclear Medicine Program)

or

- Radiation Therapy Methods 1B (Radiation Therapy Program)

#### Year 2

- Neural and Visceral Anatomy
- Instrumentation 2A and 2B (depending on the program)
- Methods 11A and 11B (depending on the program)
- Professional Practice 2A and 2B (depending on the program)
- Introduction to Abnormal Behaviour OR Studies in Population Health and Health Promotion

#### Year 3

- Methods 111A and 111B (depending on the program)
- Professional Practice 3A and 3B (depending on the program)
- Research Methods in Health Sciences
- Elective

For program updates and the full range of electives associated with each program, visit: http://www.newcastle.edu.au/program/undergraduate/2008/11017.html (Diagnostic Radiography), http://www.newcastle.edu.au/program/undergraduate/2008/11019.html (Nuclear Medicine) or http://www.newcastle.edu.au/program/undergraduate/2008/11018.html (Radiation Therapy) for program updates and the full range of electives associated with this program.

# BACHELOR OF **MUSIC**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **002546E**

Location of Study:
**City Precinct – the Conservatorium**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Music?**
If you've been studying music or learning a musical instrument, then studying music at university level is an excellent way to continue your studies and prepare you for a career as a professional musician or in a music-related field.

**Why study with us?**
The program aims to develop skills and nurture talent by providing every opportunity to develop individual creativity while receiving high quality training in music. Learn from our staff, most of whom are performers, many with international reputations. Facilities include a 500 seat concert hall, four concert grand pianos, 40 teaching and practice studios and a number of early music instruments such as harpsichords. The Conservatorium of Music also boasts a fine recording studio and music technology laboratory.

**What will you study?**
You receive individual tuition in your principal instrument, attend classes in essential core academic curricula, and have the opportunity to study a variety of electives. The Conservatorium is also able to offer a variety of performance experiences as well as the opportunity to attend concerts by the many world class musicians who regularly visit.

You may specialise in performance (instrumental/voice), composition, creative production or studio teaching, or perhaps undertake a combination of these areas or music technology in a double major. On approval, you may choose to enrol in a double major or a double performance major as your elective area.

**Professional Accreditations**
The degree is accredited by the National Registration and Education Board of the Australian Music Therapy Association, Inc. Graduates may seek membership of the Music Teachers Association, Australian Guild of Composers, Musicology Society of Australia and the National Australian Council of Tertiary Music Schools.

**Career Opportunities**
This program is for those with the interest in, and ability for, a career as a professional musician or in a music-related field. There are many career opportunities, including professional orchestral player, opera company member, community or private music teacher, university lecturer, music technologist in recording or mixing, musical arranger, composer, church musician, conductor, performer, arranger, or composer. With additional study, graduates can also undertake careers as music therapists, arts administrators, public relations officers, music librarians, business managers, or secondary school teachers.

**Sample Program**

**Year 1**
- Principal Study 1, 2 (choose from performance, composition, creative production or studio teaching)
- Introduction to Music Technology
- Ensemble Studies 1
- Studies in Western Music 1, 2
- Electives*

**Year 2**
- Principal Study 3, 4
- Ensemble Studies 2, 3
- Studies in Western Music 3, 4
- Australian Music
- Elective*

**Year 3**
- Principal Study 5, 6
- Ensemble Studies 4, 5
- Studies in Western Music 5
- Electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# MN

## BACHELOR OF **MUSIC (HONOURS)**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **030186C**

Location of Study:
**City Precinct – the Conservatorium**

Program Duration: **One year**

Commencement: **February, July**

The Bachelor of Music (Honours) is normally undertaken by students with a superior record in the Bachelor of Music degree. Vocal students may specialise in operatic studies and piano students may specialise in accompaniment.

Other students may specialise in performance, composition, musicology or a combination of performance and research, and are required to complete a schedule of directed study.

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## BACHELOR OF **NATURAL HISTORY ILLUSTRATION**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **059878C**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Natural History Illustration?**
If you have a love of drawing, are fascinated by the natural world and admire those professional illustrators who through their talent, skill and patience are able to bring to life a flower or a tiny beetle, then this is the degree for you. Designed to be a bridge between art and science, the degree program offers you a unique opportunity to visually interpret the Australian environment. The program encourages students to develop individual interests and pathways, whilst providing a broad skills base.

**Why study with us?**
The field of natural history illustration is highly specialised and this program is the only one of its kind in Australia and one of only a few internationally.

**What will you study?**
Lectures and tutorials are aimed at familiarising students with aspects of field observation, data collection and traditional, as well as multimedia, studio techniques and their application to professional practice. Interdisciplinary links are an important component of the program and students are encouraged to select associated elective courses from the design, fine art and science disciplines. The undergraduate experience will promote the development of individual learning outcomes relevant to the specific interests and vocational needs of students.

**Career Opportunities**
Natural history illustrators are usually employed in the publishing, display, education or exhibition fields. Illustrators may be employed or work freelance in scientific institutions, the publishing industry, educational institutions, libraries, galleries, museums, at archaeological or fossil sites, botanic gardens or for anthropologists, scientists and taxonomists.

**Sample Program**

**Year 1**

- Visual Communication Drawing 1
- Visual Communication Technology 1
- Natural History Field Studies 1 and 2
- Natural History Studio Studies 1 and 2
- Visual Communication Theory and Practice
- Photographic Imaging for Design

**Year 2**

- Natural History Theoretical Studies
- Natural History Field Studies 3 and 4
- Natural History Studio Studies 4
- Scientific Illustration
- Three electives*

**Year 3**

- Natural History Major Project 1 and 2
- Natural History Dissertation
- Professional Practice for Designers
- Natural History External Project
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **NATURAL HISTORY ILLUSTRATION (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **065377G**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

Meritorious students from the Bachelor of Natural History Illustration as well as other related undergraduate programs such as science, fine art or design may undertake a further year of study to obtain an Honours degree. The Honours degree allows students to specialise in areas of scientific, creative or general illustration combining fieldwork and studio practice specific to the visual interpretation of the natural environment.

# BACHELOR OF **NURSING**

FACULTY OF
**HEALTH**

CRICOS Code: **011633J**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Nursing?**
Nurses are an essential part of the health care system and work to promote and maintain the health of individuals and communities. Nursing provides varied career opportunities; nurses fulfill diverse roles such as clinicians, educators, researchers, managers and consultants.

**Why study with us?**
The program has a practical focus and you will attend over 800 hours in clinical settings in community centres, aged care areas, mental health settings and major teaching hospitals throughout the Hunter, Central Coast, Mid North Coast and University Department of Rural Health (UDRH) sites.

**What will you study?**
You will complete courses including nursing therapeutics, foundations of nursing and human bioscience with the option of a specialisation stream in mental health nursing or aged care. Nursing studies are central to this program, and learning in the biological and behavioural sciences supports these. The program uses a flexible delivery mode in the final semester.

**Professional Accreditations**
A nursing degree is a very transportable qualification. NSW registered nurses may apply for registration in many overseas countries. Graduates of this program are eligible to apply for registration with the NSW Nurses and Midwives Board.

**Career Opportunities**
Opportunities for nursing graduates have never been better. Whether it's in the public or private sector, hospitals, clinics, nursing homes, community health-care agencies or local communities, your chances of finding just the right position are excellent. When it's time for that working holiday you can apply for registration in many overseas countries – the perfect way to see the world and sharpen your nursing skills at the same time!

**Assumed knowledge:** Biology or Chemistry and Advanced English

**Sample Program**

**Year 1**

- Foundations of Nursing
- Introduction to Health Clinical Practice
- Partnerships in Health Practice
- Nursing Therapeutics and Health Breakdown
- Nursing Therapeutics and Medications
- Human Bioscience
- Advanced Human Bioscience
- Elective

**Year 2**

- Mental Health Nursing Therapeutics
- Prudence in Nursing Practice
- Nursing Therapeutics and Aged Clients
- Gastrointestinal Nursing Therapeutics
- Prudence in Nursing Research
- Cardiovascular/Respiratory Nursing Therapeutics
- Professional Nursing Elective for example: Health, Social Disadvantage and Substance Abuse

**Year 3**

- Sexuality and Families
- Prudence and Professional Nursing
- Emergency Nursing Therapeutics
- Health Breakdown among Indigenous Populations
- Transition to Professional Practice A and B

**International Registered Nurses Program**

If international students wish to gain registration in New South Wales and possess an overseas nursing qualification and are a registered nurse in their own country, they may apply to study the Bachelor of Nursing program. Credit may be offered for previous studies, following review of appropriate documentation (including all of the following: course outlines with course content & objectives, assessment items, evidence of satisfactory clinical performance, hours of academic work and clinical hours, evidence of licensure and educational qualifications.

**Year 2**

- Nursing Therapeutics and Aged Clients
- Prudence in Nursing Practice
- Gastrointestinal Nursing Therapeutics
- Clinical for International Students*
- Mental Health Nursing Therapeutics
- Cardiovascular/Respiratory Nursing Therapeutics

**Year 3**

- Sexuality and Families*

or

- Health Breakdown among Indigenous Populations*
- Emergency Nursing Therapeutics*
- Foundation Studies in Nursing*
- Prudence and Professional Nursing*
- Transition to Professional Practice A, B*

Please refer to www.newcastle.edu.au/program/10706.html
for program updates and the full range of electives associated with this program.

# BACHELOR OF **NUTRITION AND DIETETICS**

FACULTY OF **HEALTH**

CRICOS Code: **001131C**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**Why choose Bachelor of Nutrition and Dietetics?**
If you are interested in food, nutrition and health, enjoy communicating with people and have an aptitude for science, an exciting future lies ahead when you become an Accredited Practising Dietitian (APD). Dietitians need analytical abilities, good organisational skills and initiative, good written and verbal communication skills, and to be able to work effectively with people.

**Why study with us?**
Your qualification will be recognised at a national and international level, and our program is accredited with the Dietitians Association of Australia. Throughout the program there is a strong emphasis on practical experience in rural health to ensure that you are well equipped with the skills necessary to begin your career. Your final year of study offers a variety of electives according to your area of interest.

**What will you study?**
This program develops problem-solving and communication skills with studies in food, nutrition and dietetics, basic and applied sciences and social sciences. Professional practice is a vital component of the program and students complete more than 1,000 hours of supervised professional practice in a variety of hospitals, community health, business and food service settings across NSW and interstate.

**Professional Accreditations**
Your qualification will be recognised at a national and international level, graduates are eligible for Accredited Practising Dietitian (APD) status as well as membership of the Dietitians Association of Australia, the Public Health Association, Sports Medicine Australia, the Nutrition Society and other bodies.

**Career Opportunities**
Dietitians are employed in a variety of settings including public and private hospitals, community health services, nursing homes, the food industry as well as private practice. Clinical dietitians focus on medical nutrition therapy for individuals. Community and public health dietitians and nutritionists work in multidisciplinary teams focusing on the assessment of community nutrition needs, health promotion and the development of nutrition policies and education programs. Food service managers are based in hospitals, nursing homes and private practice. They need special skills in quality food production, food delivery systems and management. Private practice offers self-employment and is a growth sector of the profession. Other areas include sports nutrition, marketing and public relations.

**Recommended study:** Chemistry

**Sample Program**

**Year 1**
- Biomedical Science Part 1, 2
- Nutrition 1
- Introduction to Health Sciences
- Studies in Population Health and Health Promotion
- Introductory Chemistry 1, 2
- Food Science 1

**Year 2**
- Food Science 2
- Sociology of Food
- Community Nutrition Practice
- Nutrition 2
- Human Pathophysiology
- Human Molecular Science
- Clinical Exercise Physiology

**Year 3**
- Research Methods and Statistics
- Clinical Nutrition 1, 2
- Dietetic Practice
- Foodservice Management
- Programs for Nutrition Education
- Public Health Nutrition
- Nutritional Biochemistry
- Elective

**Year 4**
- Community and Food Industry Practice
- Clinical Practice
- Sports Nutrition*
- Independent Professional Practice*
- Paediatric Nutrition and Dietetics*
- Special topics in Health Sciences
- Nutritional Biochemistry
- Literature Review
- 40 units of Electives

* Electives – please refer to www.newcastle.edu.au/program/10295.html for program updates and the full range of electives associated with this program.

# BACHELOR OF **OCCUPATIONAL THERAPY**

FACULTY OF
**HEALTH**

CRICOS Code: **001132B**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**Why choose Bachelor of Occupational Therapy?**
Occupational therapy is concerned with promoting people's occupational performance, and thus their health. This is done by assisting in their adaptation to the demands of their environment, and promoting their capacity to cope with everyday living tasks. Occupational therapists mainly work with those whose coping abilities have been impaired by disease, physical injury, developmental abnormalities, emotional trauma, psychological problems or social disadvantage. This is a profession that can have a profound effect on people's lives, so respect for individuals and effective communication skills are vital.

**Why study with us?**
During the program you will complete a minimum of 1,000 hours of professional education throughout the program. This ensures a continual integration of practice and theory.

**What will you study?**
The program focuses on adult learners and encourages students to engage in self-directed learning, be creative thinkers and problem solvers. It combines studies in the biomedical, behavioural and occupational sciences.

Professional educational experiences are full-time, last from two to twelve weeks and give you the opportunity to experience services in urban or rural NSW. There may be opportunities to study professional practice abroad.

**Professional Accreditations**
The World Federation of Occupational Therapists and the Australian Association of Occupational Therapists accredit The University of Newcastle Bachelor of Occupational Therapy.

**Career Opportunities**
Occupational therapists work as members of inter-disciplinary or multi-disciplinary health care teams in general hospitals, rehabilitation centres, supported employment services, mental health services and in specialised programs for children, elderly people and people with developmental disabilities. They also work in industry in the fields of occupational health and rehabilitation.

**Assumed knowledge**: Biology & Chemistry

**Sample Program**

**Year 1**

- Introduction to Occupational Therapy
- Biomedical Science Part 1, 2
- Musculoskeletal Anatomy
- Introduction to the Science of Occupation
- Introduction to Health Sciences
- Introduction to Occupational therapy Practice
- Studies in Population Health and Health Promotion

**Year 2**

- Occupational Therapy 2: Introductory Theory and Practice
- Occupational Therapy 2: Specific Prac Skills
- General Psychology
- Occupational Therapy 2: Applied Theory and Practice
- Occupational Science 2
- Psychology and Sociology for OT 2

**Year 3**

- Introduction to Psychosocial Mental Health in OT Practice
- Psychology and Sociology of Mental Health in OT
- Applied Psychosocial Mental Health in OT Practice
- Qualitative Research Methods in Health
- Groupwork in Occupational Therapy
- Statistics for the Sciences
- Elective*

**Year 4**

- Advanced Professional Practice in OT
- Rural and Remote Professional Practice in OT
- OT Program Evaluation
- Occupational Science in International Context
- OT Specialty Practice Topics
- OT Program Design
- Research Project
- Elective*

* Electives – please refer to www.newcastle.edu.au/program/10792.html for program updates and the full range of electives associated with this program.

# BACHELOR OF **ORAL HEALTH**

FACULTY OF **HEALTH**

CRICOS Code: **059910G**

Location of Study: **Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Oral Health?**
The Bachelor of Oral Health is aimed at developing and integrating scientific knowledge and clinical skills. Students will provide preventive treatment to individuals, mindful of the dynamic between oral health and general health, the team approach to care and community needs. Using an evidence-based approach, graduates will have the skills required to undertake research and communicate the outcomes of this research to a wide range of audiences.

**Why study with us?**
This student centred program relies on students working together in brand new, purpose built facilities on the Ourimbah campus, to deliver patient care to local residents. The program caters for all types of students and the University is fortunate to have attracted highly qualified staff to support clinical teaching.

**What will you study?**
You will spend an average of 20 hours each week in formal teaching and clinical activity. Through integrated learning, you will relate oral health science and skills within a population health based approach to oral health care. As the program progresses, you will participate in a range of teaching and learning activities which aim to support oral health care for the individual and the community. You will provide clinical care during the program and will attend a range of placements in clinical and non-clinical settings.

**Professional Accreditations**
Graduates of this program will be dental hygienists, eligible for registration with the Dental Board of NSW and other State Dental Boards.

**Career Opportunities**
Graduates will be eligible to register and practise as dental hygienists in private dental practice and work in oral health promotion in a range of clinical settings. Graduates will also have the opportunity to work as clinical teachers in the tertiary sector, in oral health research and in oral health administration.

**Recommended study:** Biology & Chemistry

**Sample Program**

**Year 1**

- Human Bioscience
- Oral Health and Ill-health
- Introduction to Health Sciences
- Studies in Population Health and Health Promotion
- Head and Neck Anatomy
- Assessment of Oral Health Status
- Communicating Oral Health Messages
- Statistics for the Sciences

**Year 2**

- Caries and Pain Control
- Periodontology
- Elective*
- Introduction to Oral Health Promotion
- Evaluating Oral Health Promotion
- Oral Pathology
- Occlusion
- Radiography

**Year 3**

- Oral Health Practice I, II
- Community Placement
- Oral Health Promotion Project
- Oral Health and Specialist Placement
- Teaching Health Practitioners
- Oral Health Placement
- Elective*

* Electives – please refer to http://www.newcastle.edu.au/program/undergraduate/2008/11576.html for program updates and the full range of electives associated with this program.

# BACHELOR OF **PHYSIOTHERAPY**

FACULTY OF
**HEALTH**

CRICOS Code: **039298M**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**Why choose Bachelor of Physiotherapy?**
Physiotherapy is a health profession concerned with the prevention, assessment and treatment of human movement disorders. Clinical problems encountered by the physiotherapist are wide-ranging and often challenging, but usually involve musculoskeletal, neurological or cardio-respiratory disorders. Physiotherapists must have effective interpersonal skills, including communicative and empathic abilities, and highly developed problem solving skills, in addition to proficient manual skills. There is currently a strong demand for physiotherapists, particularly in the public sector and in regional and rural locations.

**Why study with us?**
Clinical placements start in your first year of study and continue throughout your degree so you are continually putting into practice the theory and hands-on skills you learn throughout the program.

**What will you study?**
The program involves the learning of professional physiotherapy knowledge and skills underpinned by the relevant biomedical and behavioural sciences. A case-based learning approach and innovative educational strategies are used to integrate the clinical and basic sciences. The program includes substantial clinical practice. Clinical experience is undertaken in a variety of health settings, which may include private practices, hospital wards, rehabilitation units, community health centres, and hospital outpatient clinics.

**Professional Accreditations**
Final stage accreditation of the program is currently in process with the Australian Physiotherapy Council in accordance with normal procedure.

**Career Opportunities**
Physiotherapists may work as members of multi-professional health-care teams, in general hospitals, rehabilitation centres, community clinics and private practice. They are also active in the development of preventive health projects and are frequently attached to sporting bodies, schools and industries. There is a recognised national shortage of physiotherapists so graduate career prospects are excellent.

**Assumed knowledge:** Advanced English, Chemistry, Physics & Biology

**Sample Program**

**Year 1**
- Introduction to Physiotherapy
- Physiotherapy II
- Biomedical Science Part 1, 2
- Musculoskeletal Anatomy
- Introduction to Health Sciences
- Studies in Population Health and Health Promotion

**Year 2**
- Physiotherapy III
- Musculoskeletal Physiotherapy I
- Neural and Visceral Anatomy
- Neurological Physiotherapy I
- Cardiopulmonary Physiotherapy I
- Human Pathophysiology
- Physiotherapy Clinical Practice
- Statistics for the Sciences

**Year 3**
- Clinical Exercise Physiology
- Advanced Neurological Physiotherapy
- Cardiopulmonary Physiotherapy II
- Physiotherapy Clinical Practice
- Musculoskeletal Physiotherapy II
- Physiotherapy IV

**Year 4**
- Physiotherapy Clinical Practice
- Statistics for the Sciences
- Physiotherapy in Community Health
- Research Methodology and Design
- Electives*

*Electives – please refer to www.newcastle.edu.au/program/11441.html
for program updates and the full range of electives associated with this program.

# BACHELOR OF **PSYCHOLOGY**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **039305F**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Four years**

Commencement: **February**

**Why choose Bachelor of Psychology?**
Psychology can be broadly defined as the scientific study of behaviour and its causes. It is a diverse discipline that investigates everything from the structure and function of brain cells through to the behaviour of people in social groups.

**Why study with us?**
Our undergraduate program is relatively unique in Australia in providing a strong foundation in the scientific basis of psychology, and also offering undergraduates the chance to acquire competence in a range of professional skills.

**What will you study?**
The Bachelor of Psychology program provides professional psychological training and practical skills, based on a strong theoretical and empirical foundation. In the final year you will have the opportunity to specialise in a specific area of psychology by designing and conducting a research project, and undertaking advanced Honours level coursework, including theoretical and applied special interest topics.

**Professional Accreditations**
Students who complete the program requirements are currently eligible to apply for provisional registration with the Psychologists Registration Board of NSW Health. By completing the accredited sequence of courses over four years in psychology, students will also meet the current requirements for Associate Membership of the Australian Psychological Society Ltd (APS).

**Career Opportunities**
Psychology graduates find work in a variety of areas including human resource management, organisational psychology, training, vocational guidance, child protection, counselling, clinical and neuropsychological assessment. These roles can be in community and government organisations, schools and other educational institutions, commercial organisations and private practices.

**Sample Program**

**Year 1**
- Molecules, Cells and Organisms
- Statistics for the Sciences
- Psychology Introduction 1 and 2
- Introduction to Philosophy of Psychology
- Pre-Professional Psychology 1
- Introduction to Information Systems
- Elective*

**Year 2**
- Applied Statistics and Research
- Cognitive Psychology
- Biological Psychology
- Introduction to Abnormal Behaviour
- Personality and Social Psychology
- Pre-Professional Psychology 2
- Electives*

**Year 3**
- Advanced Research Methods and Statistics in Psychology
- Advanced Psychological Measurement
- Advanced Social and Organisational Psychology
- Advanced Perception and Learning in Psychology
- Advanced Developmental Psychology and Developmental Psychopathology
- Pre-Professional Psychology 3
- Elective*

**Year 4 – Pass Level**
- Advanced Methodology
- Critical Issues and Controversies in Psychology
- Pre-Professional Psychology 4
- Advanced Topics in Biological, Cognitive and Developmental Psychology
- Advanced Topics in Personality, Social, Clinical and Health Psychology
- Critical Review and Analysis of Specialised Research Topic
- Psychology Research Project Part A and Part B

**Year 4 – Honours**
- Advanced Methodology
- Critical Issues and Controversies in Psychology
- Pre-Professional Psychology 4
- Advanced Topics in Biological, Cognitive and Developmental Psychology

or

- Advanced Topics in Personality, Social, Clinical and Health Psychology
- Critical Review and Analysis of Specialised Research Topics
- Psychology Honours Thesis Part A
- Psychology Honours Thesis Part B

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF SCIENCE

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code:
**001609C**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Science?**
Science is enormously exciting. Think space physics, medicinal chemistry, molecular genetics, resource assessment and monitoring... the list goes on. So much is happening and yet there is still an enormous amount left to discover and explore. If you are inquisitive and enjoy finding answers this could be the program for you.

**Why study with us?**
Many of the academic staff involved with this course are at the forefront of their fields. They are highly respected for their teaching methods and encourage students to develop problem-solving skills and become strategic thinkers.

**What will you study?**
There is flexibility to specialise in the following majors:

- Biological Sciences (Callaghan)
- Chemistry (Callaghan)
- Earth Sciences (Callaghan)
- Geography and Environmental Studies (Callaghan)
- Marine Sciences (Ourimbah)
- Mathematics (Callaghan)
- Photonics (Callaghan)
- Physics (Callaghan)
- Psychology (Callaghan, Ourimbah)
- Statistics (Callaghan)
- Sustainable Resource Management (Ourimbah)

**Professional Accreditations**
A major sequence in Chemistry, Mathematics, Photonics or Physics qualifies graduates for membership of the relevant professional organisation. An approved sequence of courses in Psychology followed by an accredited fourth year provides a four-year Australian Psychological Society (APS) accredited program, and satisfies the requirements for conditional registration with the NSW Registration Board. APS accreditation is currently being sought for Psychology major sequence at the Ourimbah campus.

**Majors**
We have a range of suggested Study Pathways and Career Opportunities for the Bachelor of Science relating to each of the major sequences at the following link: www.newcastle.edu.au/faculty/science-it/degree-programs/pathways/index.html

Major **Biological Science**: Students may study ecology, cellular biochemistry, molecular genetics, animal physiology and development, immunology, conservation biology, plant development and physiology, and microbiology.

**Career Opportunities:** Graduates find employment in biomedical areas such as pathology laboratories, biotechnology, biological research institutes, bioanalytical laboratories and government or industry bodies related to the environment or agriculture.

Major **Chemistry:** Students study a range of courses such as analytical, inorganic, organic, physical, applied and environmental chemistry, instrumental chemical analysis, metal complexation, structure and reactivity, molecular organic synthesis, energy and structure, and medicinal and biological chemistry solids.

**Career Opportunities:** Students who specialise in Chemistry can work as analysts in product control development or research, scientific product sales and support, technology management or health.

Major **Earth Sciences:** Student students study a variety of courses such as Earth's dynamic systems, river basin processes, climatology and soils, optical mineralogy and igneous petrology, Earth's sedimentary rocks and environments, coastal dynamics and protection, geology, geographic information systems, and global change.

**Career Opportunities:** Earth scientists gain employment in many fields such as the environmental, minerals and energy industries and with government and semi-government organisations, presenting the opportunity to work for local, national and international agencies and businesses.

Major **Geography and Environmental Studies:** Students can study global poverty and development, Earth's dynamic systems, the sustainable society, environmental legislation and planning, cities and regions, geographies of development, climatology and soils, applied social research, environmental remediation, society and space, and globalisation.

**Career Opportunities:** Graduates can find careers across a diverse range of fields working with private industry and government organisations in areas such as urban and rural planning, social planning, community services, climate, water, soil science, flora and fauna.

Major **Marine Science:** Students undertake studies in marine biology, marine ecology, marine and coastal floral ecology, estuarine ecology, ecological methodology, and marine fish and fisheries.

**Career Opportunities:** Students are employed as marine scientists by local and state government catchment committees, fisheries, environmental authorities and marine parks, the Australian Government, private and industry consultants, universities and organisations with marine and estuarine interests.

Major **Mathematics:** This major sequence can only be taken in conjunction with another major sequence, not including Statistics. Students undertake studies in mathematical software modelling, dynamical processes, operations management, fundamentals of statistics, data analysis, decision analysis, logic and set theory algebra, number theory, topology, linear operators and research topics in mathematics.

**Career Opportunities:** Graduates work in industry, international finance, merchant banking, medicine and the public sector. They often enter the fields of research, management and strategic planning or work in insurance companies, the Futures market, and computer-related enterprises. Skills in mathematics are of value whenever real-world problems in areas such as manufacturing and scheduling have to be solved.

Major **Photonics:** Students can study modern optics, quantum mechanics and electromagnetism; optical design and optoelectronic materials; calculus of science and engineering; optical communications; stability of optical systems; quantum, atomic and molecular physics; and lasers and nanotechnology.

**Career Opportunities:** Students find work in laser optical fibre and component research and development, production, testing and installation, medical application of lasers and detectors, telecommunications and remote sensing, all within government telecommunications support and regulatory agencies.

Major **Physics:** Students study a variety of courses including: astronomy; modern optics; mathematics of physical systems; nuclear physics and applications; quantum mechanics and electromagnetism; electronics; computer modelling; special relativity; optical communications; quantum, atomic and molecular physics; statistical physics; and lasers and nanotechnology.

**Career Opportunities:** Graduates find employment in areas including medical physics, fibre-optics, laser technology, coal technology, measurement technology, computing, data analysis and modelling, finance and management, and research. Research areas include solar energy, solid state physics, astronomy and astrophysics, food and textile research, and medical imaging.

Major **Psychology:** Students may study a range of courses including research methods and statistics in psychology, cognitive psychology, biological psychology, abnormal behaviour, personality and social psychology, psychological measurement, perception and learning in psychology, health psychology, psychopathology and neuro-psychology, and social and organisational psychology.

**Career Opportunities:** Graduates work in many different fields including private industry and government departments in areas such as organisational psychology, human resource management, research and data evaluation, marketing, education and community welfare. Psychologists also work in hospitals, health services, private clinics and in specialist areas such as correctional services and the family court.

Major **Statistics:** This major sequence can only be taken in conjunction with another major sequence, not including Mathematics. Students can study a range of courses which include: calculus of science and engineering; applied statistics and research methods; fundamentals of statistics; statistical inference; generalised linear models; time servies analysis, total quality management; surveys and experiments and applied Bayesian methods.

**Career Opportunities:** Statistics provides training in the core skills of a wide range of professions. The benefit of undertaking a Statistics co-major is the development of broader and deeper ability to analyse, interpret and evaluate data. Skills in statistics are of value wherever new ways to solve problems are required.

Major **Sustainable Resource Management:** Students undertake studies in natural systems, social systems, land systems and biodiversity; water values and sustainability management; resource assessment and monitoring; conservation science; and community resource management.

**Career Opportunities:** Graduates can find employment in government departments in the areas of national parks and wildlife, land and water management, agriculture, the environment, public works and forestry, strategic planning, sustainability, development control, and land and water management. They may also work in private industry as a consultant on environmental and sustainable resource matters, in non-government organisations, or in research organisations in the areas of agriculture, forestry, livestock and soil management.

A Bachelor of Science degree program followed by studies in education may lead to a career in teaching.

* Note: Not all major sequences are available at all campus locations.

**Sample Program**
(http://www.newcastle.edu.au/program/undergraduate/2008/10323.html)

**Year 1**

- Statistics for the Sciences (compulsory)
- Major sequence courses
- Approved science courses
- Electives*

One of the following Mathematics courses:

- Preliminary Mathematics
- Mathematics 1
- Advanced Mathematics 1

**Year 2**

- Science in Practice (compulsory)
- Major sequence courses
- Electives*

**Year 3**

- Major sequence courses
- Approved science courses
- Electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **SCIENCE (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code:
**000738B**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **One year**

Commencement: **February, July**

Students who perform well during the Bachelor of Science degree may undertake a further year of study to obtain an Honours degree. The Honours degree allows students to further develop their specific areas of interest and can enhance career opportunities..

# BACHELOR OF **SOCIAL SCIENCE**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **014637C**

Location of Study:
**Newcastle – Callaghan**
**Central Coast – Ourimbah**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Social Science?**
Social science provides you with the opportunity to analyse, challenge and gain an insight into theories about life cycle, gender, class, race, work, social justice and social organisation.
Social science theories are the result of systematic thinking, observations and reflection, and contribute to political and moral debate in society, rather than dictate precise answers to complex social problems.

**Why study with us?**
The Faculty of Education and Arts is highly respected for its teaching methods, which encourage students to develop problem solving skills and become strategic thinkers. The degree shows you how to think analytically, critically question and synthesise information, and appreciate the importance of cultural diversity in a global age.

**What will you study?**
Students develop skills in planning, implementing and managing social behaviour in the workplace, social policy and social programs. You can major in the following course areas:

**Aboriginal Studies (Callaghan):** Students study various aspects of Aboriginal histories, societies, leadership styles, cultures and issues to do with Aboriginal communities. Studies centre on Indigenous peoples' experiences and perspectives.

**Community Welfare and Human Services (Callaghan and Ourimbah):** Students study policy and practice in welfare, education and community services.

**Economic Policy Analysis (Callaghan):** This major provides students with an understanding of the development and the impact of economic policy in a national and global context.

**Gender Studies (Callaghan and Ourimbah):** Students study the issue of gender in a wide variety of contexts, including social organisation, film, language, performance, history, literature, ecology and social structure.

**Film, Media and Cultural Studies (Callaghan and Ourimbah):** This major focuses on a range of media forms and their roles in the circulation of images and information that shape our lives. Students develop critical analytical skills through applying the historical study of media and popular culture to
current debates about cultural representation and cultural technologies, and their roles in contemporary society.

**Historical Studies (Callaghan and Ourimbah):** This major provides students with the opportunity to study history relevant to the social sciences.

**Human Geography (Callaghan):** This major explores the relationships between people and places in a global context. Students develop an understanding and appreciation of the interactions between people and their environment in terms of globalisation, development, urbanisation, diversity and inequality.

**Industrial Relations and Human Resource Management (Callaghan and Ourimbah):** This major provides students with a critical understanding of management practices, employee relations and organisational behaviour, with a focus on industrial relations and various personnel/ human resource activities in an organisation.

**Leisure and Tourism Studies (Callaghan):** This major enables students to gain a deeper more critical understanding of leisure and tourism within contemporary society. A particular emphasis is given to leisure and tourism in the context of sustainability. Through a combination of lectures, tutorials, workshops and field trips, students develop the knowledge and skills that are necessary if they wish to work in this field.

**Linguistics (Callaghan and Ourimbah):** Students study language as a human communication system, focusing on the structure, acquisition and uses of language, and on the variety of world languages.

**Philosophical and Religious Studies (Callaghan and Ourimbah):** This major provides students with the opportunity to study a range of topics and issues on philosophy and religion within the context of the social sciences.

**Politics and Policy (Callaghan and Ourimbah):** This major enables students to understand the nature and impact of politics in terms of how decisions are made about the allocation of scarce resources and the resolution of social problems.

**Psychology (Callaghan):** The Bachelor of Social Science and Bachelor of Social Science (Honours) are accredited programs with the Australian Psychological Society (APS). Students who complete a 120 unit sequence of accredited psychological courses, as specified, within their program will meet the current Australian Psychological Society (APS) requirements for an accredited sequence of three years.

Students who completed the accredited sequence and an APS accredited fourth year of study such as the Bachelor of Social Science (Honours) in Psychology or the Bachelor of Arts (Honours) in Psychology, will be eligible for Associate Membership of the APS and conditional registration with the Psychologists Registration Board of NSW.

**Sociology and Anthropology (Callaghan and Ourimbah):** This major has two strands. Sociology is the study of contemporary social issues, social institutions, and social relationships to understand social order and social change. Sociologists study the ways we organise our lives with a focus on issues of inequality, power, globalisation, and identity. Anthropologists study cultures ranging from small-scale Indigenous groups to advanced capitalist societies, with a focus on fieldwork studies to understand a person's way of life.

### Professional Accreditations

Students who complete an accredited psychology sequence within their program and go on to complete an Australian Psychological Society (APS) accredited fourth year of study such as the Bachelor of Social Science (Honours) in psychology, will be eligible for Associate Membership of the APS.

### Career Opportunities

Social science graduates gain employment in a broad range of rewarding careers at the local, national and global levels. Graduates can expect to find employment in public sector agencies, community organisations and private firms as social researchers, policy analysts, program managers, project coordinators, human service managers, case managers, welfare officers, community development officers, human resource managers and general administrators.

Please refer to www.newcastle.edu.au/program/undergraduate/ for program updates associated with this program.

# BACHELOR OF **SOCIAL WORK**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **027437D**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**Why choose Bachelor of Social Work?**
Social workers are concerned with personal and social relationships between individuals, families, groups, organisations and communities. They seek to relieve distress, redress inequality, promote social justice and participate in the processes of social change which remove structural disadvantage and create opportunities for people to achieve their own goals. As a social worker you will join a profession that is emotionally and intellectually rewarding and one that will give you the opportunity to really make a difference in people's lives.

**Why study with us?**
In our program, theory, practice and social work values are integrated and emphasis is placed on properly planned, organised and supported field education placements.

**What will you study?**
Students complete core courses in social work, other specified courses in history, law, philosophy, psychology, sociology and anthropology, and electives. The program also offers you a total of 140 days (980 hours) of supervised field education placements in social work agencies or other organisations. Students undertake three placements of 40 days each in the second, third and fourth years of the program.

**Professional Accreditations**
The program is reviewed for reaccreditation by the Australian Association of Social Workers (Ltd). This entails reporting and site visit.

**Career Opportunities**
Professional social workers may gain employment in welfare and charitable organisations, hospitals, health centres, social security and welfare departments, probation and parole services and local government. Many social workers are also employed in public and social administration or as policy makers in a wide range of government organisations.

**Sample Program**

**Year 1**

- Psychology Introduction 1, 2
- Society and Culture: A Sociological Introduction
- Introduction to Sociology and Social Anthropology

or

- Communication and Culture
- Introduction to Social Work 1, 2
- Electives*

**Year 2**

- Ethical Issues
- Field Education 1, 2
- Social Work Theory and Practice 1, 2
- Foundations of Australian Society* or Introduction to Aboriginal Studies
- Electives*

**Year 3**

- Foundations of Law* or Child Law
- Regional Social Policy and Planning
- Field Education 3
- Social Work Research
- Social Work Theory and Practice 3, 4
- Electives*

**Year 4**

- Social Policy and Practice
- Field Education 4
- Social Work Theory and Practice 5, 6
- Electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF
# SPEECH PATHOLOGY

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **029748F**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**Why choose Bachelor of Speech Pathology?**
Speech pathologists are responsible for the assessment and treatment of children and adults with communication and related disorders, for example delayed speech and language development, cleft palate, swallowing disorders, voice disorders, and stuttering. This is a qualification in great demand. It is a challenging but rewarding profession that enables you to work in the public or private health sectors.

**Why study with us?**
This degree program takes you right inside the profession of speech pathology by offering you substantial clinical experience. Placements range from half-day observation visits and full-day weekly experience at local clinics during semester to five to six week placements which may occur in rural or regional locations.

**What will you study?**
The program deals with all acquired and developmental human communication disorders including child language disorders, phonological and articulatory disorders, stuttering, voice disorders, communication disorders of neurological origin swallowing disorders and audiology. Other courses include the study of linguistics, psychology, bioscience, anatomy, and neuroscience.

**Professional Accreditations**
The program is accredited by the Speech Pathology Association of Australia, the professional association for speech pathologists, and is recognised in Canada, the United Kingdom and the United States of America.

**Career Opportunities**
Speech pathologists usually work from hospitals or community health centres but work opportunities in schools and private practice are increasing. The Bachelor of Speech Pathology qualifies graduates for employment throughout Australia, in Britain and in Canada.

**Sample Program**

**Year 1**
- Speech Pathology Introduction 1, 2
- Biomedical Science Part 1
- Neuroscience and Head and Neck Anatomy
- Foundations of Language
- Language Structure and Meaning
- Psychology Introduction 1, 2

**Year 2**
- Clinical Practice
- Speech Pathology in Education and Community Settings 1, 2
- Complex Communication Needs
- Phonetics and Phonology
- Structure of English
- Biomedical Science Part 2
- Introduction to Methods and Statistics in Psychology

**Year 3**
- Speech Pathology 3b
- Clinical Practice
- Speech Pathology in Medical Settings 1, 2
- Cognition Psychology
- Three directed electives*

**Year 4**
- Speech Pathology 4
- Clinical Practice (Part 1), (Part 2)
- Research Review
- Speech Pathology 4
- Three electives*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **SURVEYING**

FACULTY OF
**ENGINEERING AND BUILT ENVIRONMENT**

CRICOS Code: **001610K**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February , July**

**Why choose Bachelor of Surveying?**
Surveyors are involved in the collection, manipulation, storage and sharing of spatial data, in relation to land, sea, space, forensics and medicine, to name just a few. Many industry surveyors are experts in measurement and measurement systems. Graduates from this degree program enjoy 100 per cent employment rates, and very high starting salaries.

**Why study with us?**
This diverse program prepares students for careers related to land information management and the use of the latest technology, including satellites for positioning and remote sensing. It is the only program in Australia to emphasise both urban engineering studies and cadastral surveying. There are also close links with other areas of engineering such as civil, mining and environmental.

**What will you study?**
There is a strong emphasis on practical laboratory and field exercises throughout the program, complementing theoretical studies. You will have access to modern electronic surveying equipment and in your final year of study you will have the opportunity to undertake an industry-related project.

**Professional Accreditations**
The surveying degree is recognised by the Board of Surveying and Spatial Information of NSW and the reciprocating institutes of surveyors in Australia and New Zealand. This qualification can lead to registration throughout Australia and New Zealand. On completion of the degree students are entitled to membership of the Institution of Surveyors, NSW and its affiliated national and international organisations.

**Career Opportunities**
Students have the opportunity to begin work anywhere in the world as the qualification is accepted by most overseas countries. Graduates become professional surveyors and can work in consultancies, private practice, and government organisations. Surveyors can be involved in environmental management, spatial data systems, mapping and photogrammetry, satellite imagery and surveying, and hydrographic studies. Australian surveyors are at the forefront of international land title projects in developing countries. The expansion of computer and satellite technologies throughout all forms of traditional surveying techniques continually creates new and challenging opportunities.

**Sample Program**

**Year 1**
- Engineering Mechanics
- Mathematics 111, 112
- Integrated Physics
- Surveying 1, 2
- Introduction to Engineering Practice
- Introduction to Engineering Computations

**Year 2**
- Geomechanics 1
- Survey and Engineering Law
- Calculus of Science and Engineering
- Electronic Surveying
- Fluid Mechanics
- Transportation Engineering and Design
- Surveying 3
- Survey Computing

**Year 3**
- Hydrology
- Analysis of Observations
- Photogrammetry 1
- Water Engineering
- Spatial Data Systems and Remote Sensing
- Geodesy 1
- Land Boundary Definition
- General Elective*

**Year 4**
- Engineering Project Management
- Astronomy and Satellite Positioning
- Industrial Surveying
- Project
- Land Valuation
- Town Planning
- General Elective*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF TEACHING DOUBLE DEGREE PROGRAMS

FACULTY OF
**EDUCATION AND ARTS**

These double degree programs provide students with skills and knowledge for the teaching profession while developing strengths in the area they wish to teach. Each program consists of an education component and a secondary component, which is specific to their chosen area of study. The education component consists of courses offered under four strands: Teaching and Learning (including Special Education); Professional Preparation; Professional Experience; and Research. The final year of the program consists of teaching studies and professional preparation culminating in an internship.

**Special Education**
Students may apply to complete an alternative program commencing in Year 4 in order to qualify for employment as a special education teacher, in addition to their teaching specialisation.

**Year 4 – Honours**
To qualify for admission to the double degree with Honours in Teaching, a student must achieve a Grade Point Average equal to or greater than 5.5 over the final two years of the double degree program.

**Professional Accreditations**
Graduates of the Bachelor of Teaching double degrees qualify for employment with the New South Wales Department of Education and Training, and Catholic and Independent schools. They may also gain employment in areas such as administration, marketing or training.

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# BACHELOR OF TEACHING / BACHELOR OF ARTS (SPECIALISATION IN PRIMARY OR SECONDARY TEACHING)

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **019639E**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
This double degree program prepares students to teach in primary schools or in secondary schools in the areas of English and social sciences.

**Primary**
The arts component consists of prescribed courses and Key Learning Area (KLA) Extended Study courses.

**Sample Program**

**Year 1**
- Four Education courses
- Foundations of Language
- Foundations of Australian Society
- Foundations in Creative Arts
- Elementary Mathematics

**Year 2**
- Two Education courses
- Teaching and Learning in English K-6
- Foundations in Science and Technology
- Foundations in Physical Development, Health and Physical Education
- Teaching and Learning in Mathematics K-6
- KLA Extended Study courses

**Year 3**
- Special Education
- Professional Experience
- Teaching and Learning in Science and Technology and PDHPE K-6
- Teaching and Learning in Human Society and its Environment K-6
- KLA Extended Study courses

**Year 4**
- Four Education courses
- Teaching and Learning in Creative Arts
- Aboriginal Education: Policies and Issues
- Teacher Research Project
- Internship

**Secondary – English**
This specialisation prepares students for teaching English at the secondary level. The arts component consists of a major in English and a minor in drama, languages, modern history, film studies or another arts course area.

**Secondary – Social Sciences**
This specialisation prepares students for teaching within the Human Society and Its Environment (HSIE) key learning area (KLA). There is a wide range of courses in the HSIE KLA including: Aboriginal Studies; Ancient History; Business Studies; Economics; Geography; Legal Studies; Modern History; Studies of Religion, Sociology and Anthropology and Society and Culture.

For the arts component, students are advised to complete their major study in geography, modern history or economics. The social science electives may be taken from one of these areas or from one of the other HSIE KLA course areas.

**Sample Program for English or Social Science**

**Year 1**

- Four Education courses
- Two English courses – major study or Social Science courses – major study
- Two minor study courses or Social Science electives

**Year 2**

- One Education course
- Teaching and Learning in English 1 or Social Science 1
- Teaching and Learning in English 2 or Social Science 2
- Three English courses – major study or Social Science courses – major study
- Two minor study courses or Social Science electives

**Year 3**

- Two Education courses
- Teaching and Learning in English 3 or Social Science 3
- Four English courses – major study or Social Science courses – major study
- One minor study course or Social Science electives

**Year 4**

- Five Education courses
- Aboriginal and Contemporary Issues in Education
- Teaching and Learning in English 4A or Social Science 4A
- Teaching and Learning in English 4B or Social Science 4B

or

- Teaching and Learning in Second Teaching Area

* Electives and Key Learning Areas – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **TEACHING** / BACHELOR OF **ARTS (SPECIALISATION IN PRIMARY OR SECONDARY TEACHING)**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **032840F**

Location of Study:
**Central Coast – Ourimbah**

Program Duration: **Four years**

Commencement: **February, July**

**What will you study?**
This double degree program prepares students to teach in primary schools or in secondary schools in the area of English.

**Primary**
The arts component consists of prescribed courses and Key Learning Area (KLA) Extended Study courses.

**Sample Program**

**Year 1**

- Two Education courses
- Language and Linguistics
- Foundations in Art Making
- Social and Environmental Studies
- The Australian Experience
- Two KLA Extended Study courses

**Year 2**

- Four Education courses
- English K-6 Curriculum
- Science and Technology in Classrooms
- Two KLA Extended Study courses

**Year 3**

- Two Education courses
- Catering for Children with Special Education Needs
- Teaching and Learning in Mathematics K-6
- Mathematics and Technology
- Nutrition; Health and Exercise for Primary Educators
- Two KLA Extended Study courses

**Year 4**

- Five Education courses
- Creative Arts K-6 Curriculum
- Aboriginal Education: Policies and Issues
- One KLA Extended Study course

**Secondary – English**
This specialisation prepares students for teaching English at the secondary level. The arts component consists of a major (90 units) in English and a minor (50 units) (either drama or history – ancient or modern).

**Sample Program**

**Year 1**

- Three Education courses
- Creative Writing, Art and Performance

or

- The Australian Experience
- Fictions, drama and film: An Introduction
- Two English courses – major study
- One minor study course

**Year 2**

- Four Education courses
- Behaviour and Classroom Management
- Two English courses – major study
- One minor study course

**Year 3**

- Three Education courses
- Catering for Children with Special Education Needs
- Three English courses – major study
- One minor study course

**Year 4**

- Six Education courses
- Aboriginal Education: Policies and Issues
- One English course – major study

* Electives and Key Learning Areas – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **TEACHING /** BACHELOR OF **DESIGN AND TECHNOLOGY**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **023095J**

Location of Study: **Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**

The Bachelor of Teaching/Bachelor of Design Technology prepares students to teach in the area of technological and applied studies. In the design and technology component students can undertake study in the following areas: food technology, textile and design, industrial technology, Graphics/Multimedia, engineering science, computer studies.

**Sample Program**

**Year 1**

- Four Education courses
- Introduction to Workshop
- Communication in the Built Environment 1
- History and Theory in the Built Environment 1
- One elective – Discipline Studies

**Year 2**

- Teaching and Learning in Design and Technology 1, 2
- Workshop Skills
- Design and Technology Environmental Studies
- Communication in the Built Environment 2
- Two electives – Discipline Studies
- Professional Experience

**Year 3**

- Two Education courses
- Design for the Future
- Four electives – Discipline studies
- Professional Experience

**Year 4**

- Five Education courses
- Literacies Across the Secondary Curriculum
- Aboriginal and Contemporary Issues in Education
- Internship

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **TEACHING /** BACHELOR OF **EARLY CHILDHOOD STUDIES**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **039293E**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
The program prepares you to teach children from birth to eight years. It is an integrated program with two components. In the education component you undertake studies in teaching and learning, teaching methods, professional experience and research. In the early childhood studies component you undertake studies in a comprehensive variety of course areas with an early childhood focus. In the first three years, you have experiences in a range field work and practicum of early childhood settings – child care centres, pre-schools and Kindergarten to year two classes. The fourth year culminates in a 10-week internship in a setting of your choice: childcare centre, pre-school with children aged nought to five years or Kindergarten to year two school class with children aged five to eight years.

**Career Opportunities**
Graduates qualify for registration with the NSW Department of Community Services for employment in early childhood services. They also qualify for employment by the NSW Department of Education and Training, Catholic and independent schools. Employment opportunities exist in long day-care centres, pre-schools, schools and a range of other children's services.

**Sample Program**

**Year 1**

- Four Education courses
- Foundations in Creative Arts for Early Childhood
- Foundations of Australian Society
- Foundations of Language
- Elementary Mathematics

**Year 2**

- Three Education courses
- English for Early Childhood Education
- Mathematics for Early Childhood Education
- Foundations in Science and Technology
- Foundation Studies in Health and Physical Education
- 0-5 Professional Experience

**Year 3**

- Three Education courses
- Creative Arts for Early Childhood Education
- Science and Technology for Early Childhood Education
- Children's Services and Social Policy
- Sociology of Children and Families
- K-2 Professional Experience

**Year 4**

- Three Education courses
- Aboriginal Education: Policies and Issues
- HSIE for Early Childhood Education
- PDHPE for Early Childhood Education
- Managing Early Childhood Services
- Internship

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **TEACHING /** BACHELOR OF **FINE ART**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **030180J**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
The Bachelor of Teaching/Bachelor of Fine Art prepares students to teach visual arts. You will have opportunities to study courses such as drawing, painting, sculpture, digital media, ceramics, fibre arts and art history. There are also course selections available in illustration, design or video. Students are able to major in a specific studio area.

**Sample Program**

**Year 1**

- Four Education courses
- Art Theory – Modernism
- Three generic studio courses

**Year 2**

- Two Education courses
- Drawing
- Visual Arts Theory
- One art studio elective
- Two generic studio courses
- Professional Experience

**Year 3**

- Three Education courses
- Contemporary Art Issues
- Art History/Theory Elective
- One art studio elective
- Two generic studio courses

**Year 4**

- Four Education courses
- Literacies across the Secondary Curriculum
- Aboriginal and Contemporary Issues in Education
- Internship

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **TEACHING /** BACHELOR OF **HEALTH AND PHYSICAL EDUCATION**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **019642K**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
The Bachelor of Teaching/Bachelor of Health and Physical Education prepares students to teach personal development, health and physical education. Candidates undertake mandated discipline studies in physical education, health and sports science.

**Sample Program**

**Year 1**
- Four Education courses
- PE Studies 1, 2
- Human Bioscience
- Foundations of Health and PE

**Year 2**
- Two Education courses
- Health Populations and Young People
- Sports Science 2, 3
- PE Studies 3, 4
- Professional Experience

**Year 3**
- Three Education course
- Sports Science 4
- PE Studies 5, 6
- Personal Development Issues in Health
- Professional Experience

**Year 4**
- Three Education courses
- Literacies across the Secondary Curriculum
- Aboriginal and Contemporary Issues in Education
- PE Studies 7
- Internship

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **TEACHING/** BACHELOR OF **MUSIC**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code**: 019641M**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
The Bachelor of Teaching/Bachelor of Music prepares students to teach music. In the Music component you undertake studies such as performance, harmony, aural comprehension, music history, computer literacy and music technology. For the Music studies, you will attend lectures at the Conservatorium, located in the University's Newcastle City precinct.

**Sample Program**

**Year 1**
- Four Education courses
- Practical Music Studies 1, 2
- Studies in Western Music 1, 2

**Year 2**
- Three Education course
- Practical Music Studies 3, 4
- Studies in Western Music 3, 4
- Elective

**Year 3**
- Three Education courses
- Practical Music Studies 5, 6
- Studies in Western Music 5
- Australian Music

**Year 4**
- Four Education courses
- Literacies across the Secondary Curriculum
- Aboriginal and Contemporary Issues in Education
- Internship

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF **TEACHING /** BACHELOR OF **SCIENCE**

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **019637G**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Four years**

Commencement: **February**

**What will you study?**
The Bachelor of Teaching/Bachelor of Science prepares students to teach mathematics or science in secondary schools.

**Sample Programs – Mathematics**

**Year 1**

- Four Education courses
- Mathematics 1110,1120
- Discrete Mathematics
- One elective

**Year 2**

- Three Education courses
- Calculus of Science and Engineering
- Linear Algebra
- Analysis
- Mathematical Software
- Algebra and Geometry

**Year 3**

- Three Education courses
- One elective
- Four Mathematics courses

**Year 4**

- Five Education courses
- Literacies across the Secondary Curriculum
- Aboriginal and Contemporary Issues in Education
- Internship

**Science**
In the science teaching program, the science component consists of:

- A 90 unit major sequence in biology, geology, physics or chemistry;
- A 40 unit minor sequence in one of these course areas, but not the one chosen for the major;
- 20 units of any Group A Bachelor of Science courses; and
- At least one of the major or minor sequences must be physics or chemistry.

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

**Professional Accreditations**
Graduates of an accredited initial teacher education program will be eligible for registration with the New South Wales Institute of Teachers and can pursue careers as teachers or educators in both the New South Wales Department of Education and Training, Catholic Education and Independent school systems; and in public and private sectors both nationally and internationally.

Prior to graduation the Department of Education and Training requires evidence that students have developed computer competencies in the areas of basic skills and pedagogy. Students are required to satisfactorily demonstrate these competencies during specific courses in the program.

# BACHELOR OF THEOLOGY

FACULTY OF
**EDUCATION AND ARTS**

CRICOS Code: **060220B**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February, July**

**Why choose Bachelor of Theology?**
The Bachelor of Theology program offers theology and religious studies courses to satisfy new certification requirements for chaplains and teachers of religious education in state and catholic high schools. We offer a broad choice of theology and religious studies for students interested in progressing to postgraduate education.

**Why study with us?**
Unlike many Bible colleges and Australian universities, the University of Newcastle offers a practical, fresh approach to Theology. Our new program is designed to appeal to various mainline Christian Churches and their students, as well as students from other world Faiths, indigenous and overseas cultures.

**What you will study**
You will study courses in theology and religious studies, and the program is well-integrated with a broad range of liberal arts courses. It will provide an academic foundation for students intending to enter priestly ministry or similar vocations. However, to do so you will need to complete other professional accreditation and training requirements. They are not included as part of this degree.

**Sample Program**

**Year 1**

- Introduction to the Bible
- Introduction to Theological Method
- Forming the Faith: History of the Early Church1
- 5 Directed Electives

**Year 2**

- Christian Liturgy & Workshop
- Christ: Yesterday, Today and Tomorrow
- Late Medieval and Reformation Studies
- Old Testament 2
- New Testament 2
- 2 Directed Electives
- 1 Elective

**Year 3**

- Contemporary Issues in Doctrine and Practice
- The Triune God
- Mission Studies
- Advanced Study in Theology
- 3 Directed Electives
- 1 Elective

**Careers**
Theology graduates are highly sought for a range of careers, including religious ministry, chaplaincy, youth ministry, healthcare work, welfare, and religious teaching in schools and other educational organisations.

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

# BACHELOR OF VISUAL COMMUNICATION DESIGN

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **059024E**

Location of Study:
**Newcastle – Callaghan**

Program Duration: **Three years**

Commencement: **February**

**Why choose Bachelor of Visual Communication Design?**
Visual communication design is an integral part of our culture. It is an exciting and growing industry where vision and creativity are paramount. Mass media, the Internet, film and television, advertising, publishing, industry or commerce – they all need promotional material delivered to them through the creative skills of the designer. With the advent of high-powered computers and sophisticated software, the potential for design is unlimited and so too are the career opportunities.

**Why study with us?**
The program has links with the design industry and students have the opportunity to work on client-based projects. In your final year you choose from an industry placement or an on-campus project and produce a high-standard portfolio for professional recognition in the labour market.

**What will you study?**
In addition to the compulsory courses based around visual communication drawing, technology, photography, principles and process, you can also choose from a wide range of courses including advertising design, design for new media, illustration and ideas, web multimedia, graphic design and design professional studies. The program enables you to major in one of three areas – Digital Design, Graphic Design or Illustration Design.

**Digital Design:** students can study media production, digital technology, media and entertainment, web design and management, digital video production, music video, screen-based digital photomedia, multimedia and animation, and web multimedia.

**Graphic and Illustration Design:** students study a variety of courses including digital communications, 2-D art, image, media technology; web design and management; graphic design; visual communication drawing, theory and practice; and design for advertising as well as illustration and ideas; experimental drawing; scientific illustration; and analysis of the visual image.

### Professional Accreditations

All students are encouraged to become student members of the Australian Graphic Design Association, Design Institute of Australia and/or the Illustrators Institute of Australia whilst studying. After graduating, students may be eligible to become full members which can enhance career opportunities.

### Career Opportunities

The visual communication industry offers career opportunities limited only by the imagination. Designers' responsibilities are vast and varied and can encompass the development of visual material for both print and digital media. This may include conceptual design, print production, advertising, publishing, film and television, the Internet, science and technology, illustration, packaging and signage. Electronic and digital tools with sophisticated software are an integral part of design practice.

### Sample Program

#### Year 1

- Visual Communication Principles 1
- Visual Communication Drawing 1
- Visual Communication Technology 1
- Design Process
- Photographic Imaging for Design
- Contexts of Design and Technology
- Course from Major*
- Elective*

#### Year 2

- Typography
- Visual Communication Design Principles
- Visual Communication Imaging
- Issues in Design
- Visual Communication Technology 2
- Design Studio Photography
- Course from Major*

#### Year 3

- Visual Communication: Forms and Functions
- Design Major Portfolio
- Professional Practice in Design
- Four courses from Major*

* Electives – please refer to www.newcastle.edu.au/program/undergraduate/ for program updates and the full range of electives associated with this program.

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# BACHELOR OF **VISUAL COMMUNICATION DESIGN (HONOURS)**

FACULTY OF
**SCIENCE AND INFORMATION TECHNOLOGY**

CRICOS Code: **032730A**

Location of Study: **Newcastle – Callaghan**

Program Duration: **One year**

Commencement: **February, July**

The Honours degree allows students to further specialise in digital media or graphic design, or illustration, including wildlife, scientific or industrial illustration.

# DEFINITIONS OF COMMON TERMS

**Program:** A program is the generic term for a degree for which a student may study. Programs consist of a collection of courses which form a coherent program of study.

**Courses:** Courses are subjects studied within a degree program. They are a direct unit of study for which academic results may be recorded.

**Faculty:** For academic purposes the University is separated into divisions. The main academic divisions related to teaching and research are called faculties. The University of Newcastle has five faculties.

**Schools:** Faculties are divided into schools, which are defined by disciplines. For example, the Faculty of Science and Information Technology has five schools.

**Electives:** Electives are non-compulsory course subjects offered within a program. Electives offer students the opportunity to broaden their learning experience by allowing access to subjects of their choice. Some programs offer access to electives from programs or faculties outside the degree of enrolment, ie. a student enrolled in a Bachelor of Fine Art might elect to undertake an elective in philosophy.

**Core electives:** Core electives are course subjects which can be chosen, and form a major component of study within a degree.

**Majors:** Majors are non-elective course subjects which form a key component of study within the degree.

**Honours:** Honours degrees are an additional qualification, usually of one years' duration in the field the student gained their undergraduate degree. For example: a student might study for a Bachelor of Arts degree, then continue on and study for an additional year and achieve a Bachelor of Arts [Honours] degree.

**Problem-based Learning (PBL):** Problem-based Learning or PBL was pioneered by the University of Newcastle some 25 years ago. Students apply their knowledge to solve problems they may encounter in a professional context and, in so doing, extend their experience beyond their text books. Elements of the work situation are brought into the classroom by the PBL approach. Students undertake a series of tasks that bring industry problems into the academic environment. The problems increase with complexity as the program progresses. The PBL approach is highly regarded by students and employers and has been adopted by both Australian and international institutions.

**Program areas taught by Problem-Based Learning (PBL):** The PBL method is used in medicine, nursing, building, architecture, law and engineering.

**Term:** Each academic year is divided into terms dependent upon how the courses are delivered. The academic year may be divided into either two semesters or three trimesters. Undergraduate programs are offered on a semester basis.

**Semester:** A semester is half of the academic year, ie. Feb – Jun / July – Nov. First semester is usually followed by the mid-year examinations, while second semester is followed by the end of year examinations. Each semester has a duration of 14 weeks, with a five-week break between each. There is also a two-week break within each semester.

**Trimester:** Trimesters separate the academic year into three, 12 week segments, ie. January – May / May – August / September – November. Trimesters only apply to postgraduate programs and postgraduate examinations are held at the end of each trimester. There is a break of three weeks between each 12-week trimester, which includes the exam period.

# APPLICATION PROCEDURE

Prospective international students interested in applying for admission to a University of Newcastle degree program can either apply directly to the University through International Admissions or through an official overseas representative (agent) of the University. Details of the University's official representatives (agents) are available at: **www.international.newcastle.edu.au/04enquiries.html**
Detailed below are the six stages in the application process.

**Stage 1**
**Applying for a place in a program**
Decide on the specific program(s) you wish to study and complete the application form included in this publication. Complete all relevant sections of the application form and attach certified copies of all academic transcripts and any other items you may wish to include.

Send the completed application form directly to International Admissions at the University or to an official representative of the University in your country.

**Stage 2**
**Wait for a response**
Successful applicants will receive from International Admissions, an offer of a place which will provide information on the tuition fees, health insurance fees, the date of commencement of the program of study, accommodation and the refund policy. (If an application is unsuccessful, applicants will receive an explanatory letter.)

**Stage 3**
**Payment of fees**
In order to accept the offer of a place in a program, you are required to pay a deposit in advance. The payment should be in the form of an international bank draft/cheque made payable to The University of Newcastle. Please write your full name on the back of the bank draft/cheque. The bank draft/cheque can either be sent directly to International Admissions at the University or may be given to an official representative (agent) of the University in your country.

Once payment has been received by the University, you will receive a Confirmation of Enrolment, which is required for completing your application for a student visa at the Australian Diplomatic Post in your country.

**Stage 4**
**Applying for a student visa**
In order to apply for a student visa at an Australian Diplomatic Post, you will need to obtain a student visa application form, either from the Australian Diplomatic Post or an official overseas representative of the University in your country.

You will need to complete all relevant sections of the student visa application form and attach and submit all relevant documentation and visa application fee. **www.immi.gov.au/students/index.htm**

**Stage 5**
**Travelling to Australia and arranging accommodation in Newcastle or on the Central Coast (Ourimbah)**
The University strongly suggests that you seek advice about booking an air ticket as soon as you receive your offer. Orientation week is one week prior to the commencement of semester/ trimester. You should organise your travel arrangements to ensure you attend.

Decide on the type of accommodation you wish to have in Newcastle or on the Central Coast. Information regarding the many types of available accommodation together with key contact details will be provided with your offer letter.

**Stage 6**
**Arriving in Newcastle or at the Central Coast (Ourimbah)**
When you arrive in Sydney, you will need to transfer (either by air, rail or bus) to Newcastle or Ourimbah, depending on where you will be studying. Information on how to transfer from Sydney to Newcastle or Ourimbah will be provided with your offer letter.

Once you have arrived, you should go to the International Student Support team on the Callaghan campus or the International Student Support Officer on the Ourimbah campus as soon as you can. Staff will be able to assist you with opening a bank account, advice on the Orientation Program and where you should go for your enrolment session.

All international students are expected to participate in the University's Orientation Program which occurs one week before classes begin. An Orientation Program for newly arrived international students has been specifically designed and includes information on enrolment, campus facilities and associations, public transport, shopping and recreational activities, a guide to either Newcastle or Ourimbah and the Central Coast (whichever is applicable) and social functions.

# UNDERGRADUATE APPLICATION GUIDE

**1. Course selection**
Before completing the enclosed undergraduate application form you should visit the University website at: www.international.newcastle.edu.au/03studyoptions/undergraduate.html and decide on your program of study.

When deciding on your program of study and commencement semester consider whether you may need to undertake English language tuition or the University's International Foundation program. You can note your preferences for start dates and semesters in section 2 (question 5) of the application form.

**2. Admission requirements**
Assessment for admission to the University is based on your academic qualifications and English proficiency. Some of the qualifications accepted by the University and the relevant scores are listed in the Admission Requirements table in this guide and will give you an indication of your academic eligibility.

Score calculations for the qualifications listed in the table are below:

**A-Levels'** score calculation applies to GCE A-levels, Singapore A-Levels, Hong Kong A-Levels and the Malaysian STPM.

| A-Levels Levels | Advanced Supplementary |
|---|---|
| A = 5 points | A = 2.5 points |
| B = 4 points | B = 2 points |
| C = 3 points | C = 1.5 points |
| D = 2 points | D = 1 point |
| E = 1 point | E = 0.5 points |

**Canada – Ontario Grade 13**
Calculation is based on the grade average of six Ontario Academic Courses if the examination is taken between 1988 and 2002 or the grade average of six University Preparation Courses if taken from 2003 onwards.

**International Baccalaureate**
Students must have been awarded the Diploma and obtain a minimum of 24 points to be considered for entry.

**Malaysian Independent Chinese Secondary Schools – Unified Examination Certificate**
The score calculation is a grade average based on the best five academic subjects attempted with no grade lower than a B5 to be included. The average should not include Chinese or Malay language.

| | | |
|---|---|---|
| A1 | = | 1 point |
| A2 | = | 2 points |
| B3 | = | 3 points |
| B4 | = | 4 points |
| B5 | = | 5 points |

**SAT**
The Scholastic Aptitude Test score (the total result of the SAT 1: Verbal and SAT 1: Mathematical test scores), will only be considered as a basis for admission when accompanied by a final high school transcript.

**Singapore**
Polytechnic Diploma holders can be considered for entry to the University and advanced standing. Calculation of the GPA for Diploma holders is as follows:

| | | |
|---|---|---|
| Dist | = | 7 |
| A | = | 7 |
| B | = | 6 |
| C | = | 5 |
| D | = | 4 |
| E | = | 3 |
| F | = | 0 |

When all the grades have been counted, the total number of each grade is multiplied by the allocated number value. The totals are added together and divided by the total number of subjects to arrive at the GPA.

**Swedish Secondary School Leaving Certificate after 1997**
Calculation of grade average is based on:

| | | |
|---|---|---|
| MVG | = | 4 |
| VG | = | 3 |
| G | = | 2 |
| IG | = | 1 |

When all grades have been counted, the total number of each grade is multiplied by the allocated number value. The totals are added together and divided by the total number of subjects to arrive at the GPA.

**3. English proficiency**
A list of qualifications that meet the University's English proficiency requirements follow and a more comprehensive list can be found on the University website at: **www.international.newcastle.edu.au/03studyoptions/academic_requirements.html**

**IELTS**
International English Language Testing score of 6.0 or higher with no individual subtest score less than 6.0.

**Note**: Bachelor of Laws score 7.0 (min 6.0 in each subtest); Bachelor of Medicine score 7.0 (min 6.0 in each subtest).

**TOEFL**
American Test of English as a Foreign Language (TOEFL) score of 550 or more (minimum score of 4.5 in the TWE) – paper based test. Computer based test requires a score of 213 or more (minimum score of 4.5 Essay Rating). Internet-based test (I-TOEFL) requires an overall score of 90, with no subset score below 20.

**Note:** Bachelor of Laws 600 (TWE 4.5) paper based. Computer based 250 (min 4.5 Essay Rating); Bachelor of Medicine 600 (TWE 4.5) paper based. Computer based 250 (min 4.5 Essay Rating).

**Language of Instruction** Late applications may not be considered for entry until the next semester Two years of successful tertiary study in an overseas tertiary institution, in a non-English speaking country, where the medium of instruction is English; or Successful completion of one year of full-time, or equivalent, higher education level study in an English speaking country. To be considered, this study must have been undertaken within the previous two years.

**4. Completing the application form**
When you have decided on your program of study, complete the enclosed application form. Ensure that your personal details are clear. The Australian Government does require us to keep your home country address on file so make sure these details are included even if you are using an education agent. If you are applying through an agent all correspondence will be sent via your agent.

**5. Certified documents**
All academic transcripts and certificates of completion attached to your application should be certified as true copies of the original. If your documents are not in English we will need officially translated versions as well as certified copies in the original language. If you are submitting an IELTS result as evidence of English proficiency the University must sight your original Test Report Form before enrolment.

**6. Advanced standing/credit**
Consideration of applicants seeking advanced standing is on a case-by-case basis. In the event that advanced standing is granted, the number of units required to complete the degree requirements will be reduced and, consequently, students will need less time to complete their preferred program.

If you are seeking advanced standing in your nominated program you should include with your application the course outline, subject descriptions, methods of assessment, contact hours, duration of the program and a list of text books should be from official educational institution publications or hand-outs.

**7. Letter of offer**

- **Unconditional Offer**
  If you have provided all relevant certified documents, and met the University's academic and English proficiency requirements, the University will send you a letter of offer without any conditions for the next available session.

- **Conditional Offer**
  The University may send you a conditional offer if you have not provided certified documents or evidence of English proficiency or are yet to complete your current course of study. Once you have met the requirements stipulated under "Conditions" in your offer letter, an unconditional offer will be forwarded to you.

- **An offer that includes International Foundation (IF)**
  You may receive an offer that includes International Foundation even though you did not request it. Students who do not meet the requirements for direct entry to an undergraduate degree program are offered the IF as a pathway to their chosen program of study.

- **English Language Programs**
  If you do not meet the University's English Language requirements you will be offered an English language program at the University prior to commencement of your main program of study.

## Undergraduate, postgraduate, Study Abroad and International Foundation Programs

The University will make a refund of the tuition fees deposit for international students in the circumstances described below. After the first term of enrolment, students receive a 100% refund if they withdraw before the census date in a term and no refund if they withdraw after the

| Refund amount | Circumstances | Time frame for payment of refunds | How to apply for a refund |
|---|---|---|---|
| Full refund of tuition fees | ▪ Your application for a student visa is not successful.<br>▪ The University cancels the program after you have started but before you have completed it.<br>▪ The program does not commence on the date the University said it would.<br>▪ The program cannot be completed because the University's registration as an education provider for overseas students is cancelled.<br>▪ The University withdraws an offer of a place. If you have provided incomplete or incorrect information, the University will retain an administration charge of AU$500 plus any agent's fees, if applicable.<br>▪ You are not able to satisfy the conditions set out in your Offer Conditions. If you have provided incomplete or incorrect information, the University will retain an administration charge of AU$500 plus any agent's fees, if applicable. | Refunds are paid within two weeks of your request, or by the program start date, whichever occurs first. | Complete an Application for Refund of Tuition Fees form. Forms can be collected from Revenue, Level 3, Student Services Centre, Callaghan campus or by telephoning +61 2 4921 8876 or by email: revenue@newcastle.edu.au<br><br>Any refunds will be sent to you in your home country and in the local currency, unless you are transferring to another institution in Australia. If you are transferring to another institution, any refund may be paid directly to that institution. |
| Partial refund of tuition fees | ▪ If you notify the University of your intention to withdraw at least 28 days before the start of term, all fees are refundable except an AU$500 administration fee, plus any agent's fees, if applicable. Notification must be in writing.<br>▪ If you notify the University of your intention to withdraw less than 28 days before the start of term, or within 28 days after the start of term, the University will retain AU$3,000 plus any agent's fees, if applicable. The remainder of the fees will be refunded. Notification must be in writing. | Within four weeks of your request. | Complete an Application for Refund of Tuition Fees form. Forms can be collected from Revenue, Level 3, Student Services Centre, Callaghan campus or by telephoning +61 2 4921 8876 or by email: revenue@newcastle.edu.au<br><br>Any refunds will be sent to you in your home country and in the local currency, unless you are transferring to another institution in Australia. If you are transferring to another institution, any refund may be paid directly to that institution. |

# THE UNIVERSITY OF NEWCASTLE REFUND POLICY FOR FULL FEE PAYING INTERNATIONAL STUDENTS IN AUSTRALIA

**Application of policy**
This policy applies to all candidates applying for admission with effect from June 2001; and to all international applicants offered places with effect from June 2001.

**Section 1: Undergraduate, Postgraduate, Study Abroad and UniPath Programs**

**1.1 Full Refund of Tuition Fees** (Payable within two weeks of request, or program start date, whichever first occurs).
The University will make a full refund of tuition fees, in the following circumstances:

(a) Application for a student visa is unsuccessful; or

(b) Applicant is unable to satisfy prescribed conditions stipulated in the offer conditions. In the case of (b), the University reserves the right to retain an administration charge of A$500 and where applicable, any agent's fee, if the applicant has provided incomplete or incorrect information.

**1.2 Partial Refund of Tuition Fees** (Payable within four weeks of receipt of notice of withdrawal).
The University may make a partial refund of tuition fees in the following circumstances:

(a) If written notice of withdrawal is received from a candidate at least 28 days prior to the commencement of the term, all fees are refundable, less an administration charge of A$500 and where applicable, any agent's fee; or

(b) If written notice of withdrawal is received from a candidate less than 28 days prior to the commencement of the term, or within 28 days after the commencement of the term, all fees are refundable less than an amount of A$3,000.

**1.3 No fee refund**
If a student withdraws from a program or course after the fourth teaching week of any term, the University will not refund any of the fees paid for that program or course for that term.

**1.4 Procedure for application for refund**
A student who wishes to apply for a Refund of tuition fees in accordance with this Refund Policy and is located at Callaghan, should do so on the form for this purpose, available from:

- Revenue, Student Services Centre – Level 3, Callaghan Campus. A student who is not located at Callaghan should provide a written application with relevant supporting documentation, eg. embassy visa denial. No refund form is required.

Applications should be faxed to +61 2 4921 7418 or emailed to: revenue@newcastle.edu.au

**1.5 Remittance of refund**
All refunds for which a student is eligible will be forwarded to the student in his or her home country, unless the student is transferring to another institution in Australia (subject to visa conditions), in which case any refund may be remitted to that institution. The University will provide the student with a statement detailing the calculation of the refund.

**1.6 Dispute resolution procedure**
If you disagree with the way the University has calculated the refund, you may lodge an appeal with the Dean of Students, (Phone +61 2 4921 5806 or +61 2 4921 8853); or email: resolutionprecinct@newcastle.edu.au

This internal appeal procedure does not limit your right to seek other legal remedies outside the University.

**Section 2: ELICOS**

**2.1 Full refund of tuition fees** (payable within two weeks of request or course* start date, whichever first occurs).
The University will make a full refund of tuition fees in the following circumstances:

(a) Application for a student visa is unsuccessful;

(b) The University is unable to provide the tuition for which the offer has been made;

(c) An offer of a place is withdrawn by the University;

(d) Applicant is unable to satisfy prescribed conditions stipulated in the Offer Conditions.

In the case of either (c) or (d), the University reserves the right to retain an administration charge of A$500 and where applicable, any agent's fee, if the applicant has provided incomplete or incorrect information.

**2.2 Partial refund of tuition fees** (payable within four weeks of receipt of notice of withdrawal).

The University may make a partial refund of tuition fees in the following circumstances:

(a) if written notice of withdrawal is received from a candidate at least 28 days prior to the commencement of a course* all fees are refundable, less an administration charge of A$500 and where applicable, any agent's fee; or

(b) if written notice of withdrawal is received from a candidate less than 28 days prior to the commencement of a course* all fees are refundable, less an administration charge of A$750 and where applicable, any agent's fee; or

(c) if the University is unable to offer a specific element of a course* after the student arrives owing to insufficient numbers enrolled, a pro-rata refund will be made; or

(d) if a student passes the English for Academic Purposes course* earlier than the length of period for which the student initially enrolled, a pro-rata refund will be made.

**2.3 No fee refund**
The University will not refund tuition fees if written notification of withdrawal from a course* is received after the commencement of the course*. This includes instances where a student may, prior to completion of a course*, sit for an IELTS test, and be successful. *For ELICOS, a "course" is the period for which tuition has been pre-paid.

**2.4 Procedure for application for refund**
A student who wishes to apply for a Refund of tuition fees in accordance with this Refund Policy should do so on the form for this purpose, available from

Revenue, Student Services Centre – Level 3, Callaghan Campus.

A student who is not located at Callaghan should provide a written application with relevant supporting documentation, eg. embassy visa denial. No refund form is required. Applications should be faxed to +61 2 4921 7418 or emailed to: revenue@newcastle.edu.au

**2.5 Remittance of refund**
All refunds for which a student is eligible will be forwarded to the student in his or her home country, unless the student is transferring to another institution in Australia (subject to visa conditions), in which case any refund may be remitted to that institution. The University will provide the student with a statement detailing the calculation of the refund.

**2.6 Dispute resolution procedure**
If you disagree with the way the University has calculated the refund, you may lodge an appeal with the Dean of Students,

(Phone +61 2 4921 5806 or +61 2 4921 8853); email: resolutionprecinct@newcastle.edu.au

This internal appeal procedure does not limit your right to seek other legal remedies outside the University.
*Approved Academic Senate: 25 November 2002*

# KEY CONTACTS

**University Programs, Application Procedures and Processing**
International Admissions
International Division
The University of Newcastle
Callaghan NSW 2308 Australia
T +61 2 4921 6595
F +61 2 4960 1766
E IA@newcastle.edu.au
W www.international.newcastle.edu.au

**The Language Centre**
The Director
The Language Centre
The University of Newcastle
Callaghan NSW 2308 Australia
T +61 2 4921 5376
F +61 2 4921 7068
E Language.Centre@newcastle.edu.au
W www.newcastle.edu.au/centre/elfsc/lc

**International Foundation (IF)**
The Coordinator
International Programs
International Foundation
The University of Newcastle
Callaghan NSW 2308 Australia
T +61 2 4921 6016
F +61 2 4921 8848
E Foundation-international@newcastle.edu.au
W www.newcastle.edu.au/centre/elfsc

# OTHER USEFUL WEBSITES

**Ourimbah Campus:**
www.newcastle.edu.au/campus/ourimbah/

**Academic Program and Course Descriptions:**
www.newcastle.edu.au/program/

**Application Form:**
www.newcastle.edu.au/students/international/our-programs/how-to-apply/

**Official Overseas Representatives:**
www.newcastle.edu.au/students/international/our-programs/how-to-apply/representative/

**Reception Service:**
E: International-Support@newcastle.edu.au

**Student Exchange Opportunities:**
www.newcastle.edu.au/students/exchange/

**Happy Cabby Bookings:**
www.happycabby.com/site/unibooking

**Department of Immigration and Citizenship:**
www.immi.gov.au/students/index.htm

**Newcastle City:**
www.ncc.nsw.gov.au
www.visitnsw.com/area/Newcastle.aspx

**Central Coast Region:**
www.cctourism.com.au
www.visitnsw.com/area/Central_Coast.aspx

**Hunter Regional Tourism Organisation:**
www.huntertourism.com

**Newcastle Beaches:**
www.stickybeek.com.au

International Division
The University of Newcastle
Callaghan NSW 2308 Australia
T +61 2 4921 6595
F +61 2 4960 1766
E international@newcastle.edu.au
W www.international.newcastle.edu.au

Create your own customised e-brochure online at:
http://mybrochure.international.newcastle.edu.au/mybrochure/

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# CONTACT

*Newcastle Beach, Newcastle*