WHAT’S NEXT?
CONNECT: INTERNATIONAL POSTGRADUATE GUIDE 2012/13

UNIVERSITY OF WOLLONGONG
AUSTRALIA
At the University of Wollongong (UOW) we believe in the power of connections.

We know greatness happens when you connect great minds. When you connect people. Connect cultures. Connect disciplines. Connect to the world.

At UOW we want you to succeed. We are committed to providing you with all the connections you need to achieve the future you are after; whether that be accredited qualifications, employment experience, global perspectives or exposure to world-class research.

We believe in cross faculty and interdisciplinary learning and research that equips students with broad-minded thinking, adaptable and applicable skills and hands-on experience that will empower you to be world class in your chosen career.

Research at UOW is internationally regarded, with competitive research funding and cutting-edge facilities. Our research consistently places us in the top 2%* of universities worldwide.

With connections to over 200 universities in 35 countries, UOW is truly an international university. We have students from over 70 nationalities, and have nurtured a welcoming multi-ethnic community that helps students from all backgrounds settle into the Australian lifestyle and strengthen their university experience.

This Guide provides you with an outline of what’s available at UOW, but it’s designed as a starting point. I encourage you to investigate further what we have to offer by talking to our staff, our students or one of our 103,000 alumni. Ask them why UOW would be right for you.

Professor Joe F Chicharo
Deputy Vice-Chancellor (International)

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* UOW is ranked in the Top 2% of universities in the world by its performance in both the 2011 Times Higher Education World University Rankings and the 2011 QS World University Rankings.
In 60 years we have grown from a small technical college serving local needs to an international research and teaching university, and we’re growing. These days, we’re proud to say we’ve got a lot going on, but you won’t be a number. People will know your name. Not because there’s no crowd to get lost in. You’ll be starting the year with 11,000 other students. You’ll be here with people following a passion, paving the way for their careers, turning talent into results. That’s the UOW way.
RANKINGS & RATINGS

At UOW, we’re always proud of the work we are doing. It’s nice when others acknowledge our achievements.

TOP 100 IN THE WORLD FOR EMPLOYERS
UOW is ranked in the top 100 universities in the world in the QS World University Rankings Employer Review 2011. This review rates institutions based on employers’ opinions of their graduates.

TOP 2% OF UNIVERSITIES IN THE WORLD
UOW is also ranked in the top 2% of universities in the world by its performance in both the 2011 Times Higher Education World University Rankings and the 2011 QS World University Rankings.

TWELVE YEARS OF GRADUATE SUCCESS
2011 marks the twelfth year in a row that UOW has scored five stars for our graduates Getting a Job and having Positive Graduate Outcomes*. This shows UOW is a place where students not only get a five-star education, but a five-star chance of gaining a job at the end of their degree.

QS 5-STAR RATING
In 2011 UOW was awarded the maximum ‘Five Stars’ in the QS star rating of universities worldwide.

*2012 Good Universities Guide (Universities & Private Colleges)
JOBS
uow.edu.au/careers

We know jobs are top of mind for our students which is why we have several programs to help get you what you want.

I am currently working for Optus, which is an Australian telecommunications company. My role is a Business Solution Consultant and I am responsible for sending proposals as per business requirements, providing better solutions to customers, weekly reporting of sales and training new staff.

I have found that international students completing a degree from UOW have excellent career support which makes it easier for them to get into internship programs.

Just as I was finishing my Masters degree, UOW introduced the Certificate in Global Workplace Practice. The program was unique in how the University provided students with an opportunity to work in a temporary placement with an Australian firm. As far as I’m concerned the CGWP has been key to my success.

TAMANNA VERMA
MASTER OF PROFESSIONAL ACCOUNTING

UOW CAREERS CENTRAL
Offers programs such as internships; team-based challenges; voluntary work experience; job interview rehearsals and professional resume reviews. UOW career counsellors are available to help you with all this and more.

There are also formal workplace experience components offered through degrees in engineering, health, law and education.

CERTIFICATE IN GLOBAL WORKPLACE PRACTICE (CGWP)
This free program is designed to help you prepare for the challenges of English language, cultural behaviours and expectations of the Australian workplace, as well as develop the skills you need to land the perfect job. It runs for two semesters, before a 12 week work experience placement.

WORK WHILE YOU STUDY
OUR SERVICES

SUPPORT
Our size means that we are a truly student-centred campus with individual attention, available staff, dedicated research supervisors and a personal approach. From the day you become a UOW student, you can expect guidance and support.

ACADEMIC
STUDENT CENTRAL
uow.edu.au/student/ourservices
A one-stop-shop for all assistance for enrolled students.

LIBRARY
www.library.uow.edu.au
Our award-winning library and dedicated library staff are here to support you during your study at UOW.

STUDENT COMPUTER RESOURCE CENTRE
uow.edu.au/its/studentlabs
Information Technology Services (ITS) provides training, user guides and student computer resources, including nine central student computer laboratories equipped with 500 desktop computers, as well as teaching laboratories and two Computer Science laboratories.

LEARNING DEVELOPMENT CENTRE
uow.edu.au/student/services/ld/students
This free service is for students who wish to improve their academic and English language skills by accessing workshops, individual consultations or self-directed resources.

ACADEMIC ADVISERS AND POSTGRADUATE COORDINATORS
Each Faculty has advisers and coordinators to assist you with questions about your subject or course. You can also consult your tutor, lecturer, or the course coordinator.

RESEARCH SUPERVISORS
Are members of academic staff who are responsible for providing support and mentoring to students.

STATISTICAL CONSULTING SERVICE
This free service provides advice on investigation planning, data analysis and appropriate methods of presenting results and conclusions.

PROFESSIONAL TRAINING FOR PHD STUDENTS
These programs include a Graduate Certificate in Business Administration, a Graduate Certificate in Higher Education and the Introduction to Tertiary Teaching program. PhD students can enrol in these programs concurrently with their research degree.

RESEARCH STUDENT CENTRE
Manages postgraduate research enrolments, scholarships and funding, as well as orientation, workshops and information sessions for research students.

SERVICES

UOW SECURITY SERVICE
The Security Service helps provide a safe and secure campus environment with trained and licensed security officers providing emergency response, first aid, after-dark escorts and patrols, operating 24 hours a day, 7 days a week.

HEALTH AND MEDICAL
A range of health services are located on campus, including a doctor, optometrist and dentist.

RELIGIOUS SERVICES
There are a range of religious services on and off campus, including a Muslim prayer space, the Omar Mosque within walking distance of the University and the Nan Tien Buddhist Temple only 15 minutes from campus. In addition, the nearby town of Helensburgh is home to the Sri Venkateswara Hindu Temple. Student-based religious clubs include the Buddhist Society; Catholic Club; Chinese Christian Fellowship; Evangelical Christian Union; Indonesian Christian Fellowship; and the Muslim Students Association.

WOLLONGONG UNIVERSITY POSTGRADUATE ASSOCIATION (WUPA)
Offers facilities and services such as the Postgraduate Resource Centre, which contains study facilities for postgraduate students. It also provides an advocacy and outreach service to assist you during your studies, plus a range of social activities and events.

STUDENT SUPPORT ADVISERS
Provide support and referral services to UOW students. They also provide programs supporting student equity and diversity both within faculties and across campus. They assist students with a range of issues such as orientation to local area, study difficulties, academic concerns, budgeting, homesickness, legal issues and accidents, student visas, health and personal problems, family emergencies and children’s education. The service is free and confidential.

DEAN OF STUDENTS
Oversees the welfare of all students and advocates on their behalf including problems with admission, enrolment, assessment, progression, transferring courses and similar matters.

CHILDCARE SERVICES
On-campus childcare services for children aged 0–6 years, as well as before school and afternoon care for school-aged children. Applications for childcare placement must be made prior to your arrival in Wollongong.
BEYOND THE MAIN CAMPUS

Aside from our main Wollongong campus, UOW has several other locations where you can complete your postgraduate studies.

WOLLONGONG INNOVATION CAMPUS
www.innovationcampus.com.au

The Wollongong Innovation Campus (iC) is a research, business and technology facility that secures Wollongong’s future as a site for world-class collaborations. It was named the best new business and industrial park in Australia at the Property Council of Australia Innovation and Excellence Awards 2011. The campus is located in North Wollongong, only five minutes from both the UOW main campus and the main city area and serviced by free public transport.

Two of UOW’s key research centres in the fields of advanced polymers and superconductors are located in custom-built facilities on the iC. Their capabilities are extended by the Australian Institute for Innovative Materials (AIIM) Processing and Devices facility, which will be dedicated to prototyping and commercialisation of our researchers’ developments.

UOW’s Sydney Business School delivers its Wollongong courses from a custom facility at iC. UOW’s successful Institute for Transnational and Maritime Security has also established a Global Centre of Excellence in Transnational Crime and delivers its courses at the Campus.

SBS SYDNEY CAMPUS
uow.edu.au/sbs/aboutus/UOW055701

The Sydney Business School (SBS) Sydney Campus offers state-of-the-art facilities in a unique learning environment, located in the heart of Sydney’s central business district, overlooking Sydney Harbour. SBS delivers all of its postgraduate degrees in Sydney, as well as at iC in Wollongong, giving students the choice of study location. The Sydney campus provides tailored learning and teaching facilities, together with full administrative support and online links to the main campus, including all electronic catalogues and databases from the main library.

UOW IN DUBAI
www.uowdubai.ac.ae

The University of Wollongong in Dubai (UOWD) is one of the United Arab Emirates’ (UAE) oldest and most prestigious universities, with a proud Australian heritage. UOWD is located in Knowledge Village, an educational precinct a short distance from the heart of Dubai city.

At UOWD, you will receive a Western education and benefit from the considerable resources and trusted name of the University of Wollongong. Today, as an independent UAE institution of higher education, UOWD attracts students from around the world. Approximately 3,300 students, comprising more than 92 nationalities, enjoy the quality academic experience that is UOWD.
CONNECT: WOLLONGONG
WOLLONGONG

Wollongong is one of Australia’s largest cities, where you can experience both the Australian bush and coast and the world-famous unique Australian wildlife.

The city has a multi-ethnic population, a diverse community that welcomes UOW’s international students. This means there is a wide range of food and culture available, and the strong community spirit of Wollongong ensures a full calendar of events and festivities throughout the year.

THE CAMPUS

Our Wollongong campus is situated in a uniquely Australian bush setting right alongside the beach. Students experience a study environment that contrasts a beautiful natural environment surrounding state-of-the-art facilities. The main campus houses the full range of support services offered by UOW, including academic support, accommodation, sports, culture and entertainment – everything you need to completely experience campus life.

28,673
total student enrolment (2011)

476
degrees on offer

69
kilometres to Sydney Opera House as the bird flies

22°C
average daily temperature

103,075
UOW alumni

2,031
subjects

2.4
kilometres to North Wollongong beach

27°C
average summer temperature

124
partner universities for international exchange

92%
of students indicated that they would recommend UOW in 2011

1951
UOW founded

410,148
population of Illawarra area
WOLLONGONG LIFE

Wollongong has a lot to offer including the beach, live music, good food and theatre. Below are a few suggestions to help you get acquainted with our city.

For more information on Wollongong, visit uow.edu.au/future/international/whywollongong
See our Welcome to Wollongong video at uow.edu.au/future/video/international

ST GEORGE ILLAWARRA DRAGONS AND WOLLONGONG HAWKS
Tickets to see Wollongong’s two premier sporting teams start at $15 for students.

NAN TIEN TEMPLE
Visit the largest Buddhist temples in the southern hemisphere 10 minutes south of Wollongong.

UNIMOVIES
Located on campus, UniMovies has the biggest screen in Wollongong. You can watch the latest releases (and occasional double-bills) for as low as $4. Try the popular ‘Dippin’ Dots’, ice cream imported all the way from Kentucky.

MT KEIRA
Standing above UOW is Mt Keira. You can walk or ride a number of tracks to the top and be rewarded with some of the best views of the city.

BEACH
There is free parking at the beach or you can catch the free bus to get there.

HANGDOG ROCK CLIMBING
Hangdog Rock climbing offers uni students cheap deals on Tuesday nights.

LEE AND ME
Take a table on the balcony facing the sea and spend a warm afternoon drinking home-made lemonade.

AMIGOS MEXICAN
Amigos is a Wollongong institution, famous for their Taco Tuesday.

STUART PARK
With free barbecue facilities right next to North Beach, Stuart Park makes for a great afternoon spent enjoying Wollongong with friends.

KIAMA
For a day trip, ride the train to Kiama to see the amazing natural blowhole or visit the markets every third Sunday of the month.

SEA CLIFF BRIDGE
Walk above the ocean as you cross one of the region’s most famous landmarks.

WOLLONGONG CITY GALLERY
The gallery is located in the middle of the city and the building itself is a work of art.
TRANSPORT

GETTING AROUND WOLLONGONG IS SAFE, EASY AND CHEAP.

WALK

Most destinations in Wollongong are an easy walk away.

BICYCLE

UOW is introducing lots of new bike racks for secure and convenient bike parking. There are lots of second-hand bikes up for sale or adoption.

TRAIN

North Wollongong station is a 15-minute walk away, or for the time-pressed, take the free shuttle bus from station to campus.

BUS

Wollongong is well connected with city buses going to all its suburbs. A free ‘city loop’ shuttle runs all day and into the night, linking UOW with the town’s hotspots.

CAR

UOW runs a carpooling program, so get two or more friends in your car with you and you get free parking on-campus.

Shuttle Route

Free Service
Departs every 10 minutes 7am–9am & 3pm–6pm

Offpeak: every 20 minutes until 9pm
Weekends: every 20 minutes 8am–6pm
UOW LIVING

At UOW Living you will benefit from a multicultural environment of high academic achievement, involvement and personal development. You have the choice of catered, flexi-catered or self-catered styles, all in community-based environments.

Our residences are located conveniently, some are walking distance from the main campus and others are a short trip by the free shuttle bus.

UNIVERSITY-MANAGED RESIDENCES

WEERONA COLLEGE, INTERNATIONAL HOUSE AND CAMPUS EAST

Weerona College and International House offer fully catered (meals provided) residences to students, and Campus East offers a flexi-catered system, a style of catering where you can use the services when you need to and only pay for the meals you eat.

Campus East has designated postgraduate rooms in flexi-catered and self-catered units. See the Accommodation Services website for more detail.

Each residence offers students academic support such as peer mentoring programs and tutorial sessions. Residences also provide a range of developmental support for student overall well-being.

GRADUATE HOUSE, GUNDI AND THE MANOR

These are all smaller self-catered communities, while Campus East offers units in a larger community. This postgraduate community is diverse and includes singles, couples and families from around the world. The community has regular social activities and study groups and developmental programs are available to all residents.

All of these facilities have:

- independent cooking facilities in each unit
- single study bedroom (furnished)
- furnished living and dining rooms
- convenient locations – all residences are a short distance by shuttle bus to UOW, and some are within walking distance.

KOOLOOBONG, KEIRAVIEW & MARKETVIEW

For those seeking more independence in a self-catered room with the advantages of group living and the security of University management support, options include Kooloobong on the UOW Campus or Keiraview, which is located on the fringe of Wollongong CBD within walking distance of shops, the beach and some of the best cafes and restaurants in Wollongong.

Marketview, the most recent addition to UOW managed residences, opened in 2012 and is located in the heart of Wollongong.

At all three residences students are able to enjoy events and benefit from ongoing academic and social programs.

We will continue our expansion of student accommodation with the addition of a new residential development within five minutes’ walk from the main campus. Please check the website for more details. uow.edu.au/about/accommodation

APPLYING FOR UOW ACCOMMODATION

Applications for university residences are made online at www.apply-accom.uow.edu.au

In order to secure a place in the residences, applications should be made as early as possible.

A free airport pick-up service from Sydney International Airport (60 minutes away) is provided for all commencing students.

HOMESTAY

For those who prefer a family-oriented lifestyle and like the idea of living with a local family, Homestays (accommodation in a private home) are available. Contact UOW for details.

PRIVATE ACCOMMODATION

Affordable private accommodation is readily available in Wollongong. There are two styles: shared and single. Occupants of most shared accommodation will divide household expenses such as rent and electricity.

UOW’s Accommodation Services provides comprehensive information about private and shared accommodation on its website at uow.edu.au/about/accommodation/other_accomm/private

The website above also contains information on temporary accommodation for students who have not organised permanent housing before they arrive in Wollongong. The listed accommodation can be used while students look for a permanent place to live.
## RESIDENCE OVERVIEW

<table>
<thead>
<tr>
<th>Accommodation Type</th>
<th>Meals</th>
<th>Number of Residents</th>
<th>Single/Shared</th>
<th>Weekly Fees</th>
<th>Distance to Bus Stop</th>
<th>Distance to Train Station</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRADUATE HOUSE</strong></td>
<td>Self-catered units</td>
<td>78</td>
<td>78 units, mixed size</td>
<td>From $185</td>
<td>100m (FREE shuttle)</td>
<td>1km</td>
</tr>
<tr>
<td><strong>GUNDI</strong></td>
<td>Self-catered units</td>
<td>34</td>
<td>5 six bedroom and 2 x two bedroom apartments</td>
<td>From $163</td>
<td>150m (FREE shuttle)</td>
<td>1.5km</td>
</tr>
<tr>
<td><strong>THE MANOR</strong></td>
<td>Self-catered rooms</td>
<td>9</td>
<td>Single rooms in home like environment with shared cooking, living and bathroom facilities</td>
<td>$199</td>
<td>30m (FREE shuttle)</td>
<td>30m</td>
</tr>
<tr>
<td><strong>WEERONA</strong></td>
<td>Fully catered (19 meals a week)</td>
<td>204</td>
<td>35 twin share rooms and 134 single rooms</td>
<td>From $245</td>
<td>100m</td>
<td>1km</td>
</tr>
<tr>
<td><strong>INTERNATIONAL HOUSE</strong></td>
<td>Fully catered (19 meals a week)</td>
<td>218</td>
<td>14 twin share rooms and 190 single rooms</td>
<td>From $245</td>
<td>200m (FREE shuttle)</td>
<td>200m</td>
</tr>
<tr>
<td><strong>CAMPUS EAST</strong></td>
<td>Flexi-catered units and self-catered units</td>
<td>615</td>
<td>Shared units range from two to five bedrooms with shared bathrooms</td>
<td>From $179 (self-catered) From $228 for flexi-catered Additional $65 to $75 per week for meals in flexi-catered rooms</td>
<td>300m (FREE shuttle)</td>
<td>400m</td>
</tr>
<tr>
<td><strong>KEIRAVIEW</strong></td>
<td>Self-catered rooms</td>
<td>48</td>
<td>Single rooms with private ensuite and TV</td>
<td>From $215</td>
<td>150m (FREE shuttle)</td>
<td>800m</td>
</tr>
<tr>
<td><strong>KOOLOOBONG</strong></td>
<td>Self-catered units</td>
<td>190</td>
<td>Unit-style with 5 bedrooms and shared bathrooms</td>
<td>From $163</td>
<td>Located on UOW campus 100m</td>
<td>1.2km</td>
</tr>
<tr>
<td><strong>MARKETVIEW</strong></td>
<td>Self-catered rooms</td>
<td>144</td>
<td>Single rooms with private ensuite and flat screen TV</td>
<td>From $219</td>
<td>150m (FREE shuttle)</td>
<td>900m</td>
</tr>
</tbody>
</table>

## RENTAL AFFORDABILITY PER WEEK

Wollongong enjoys a very reasonable cost of living significantly lower than many other cities in Australia. Here we have compared weekly rental affordability across several cities based on government data:

- Sydney $450
- Brisbane $370
- Melbourne $350
- Newcastle $215
- Wollongong $200

Source: Dept of Housing (2011), Rent and Sales Report

We have also provided a sample of our students’ monthly rent and personal expenses showing a range of different living arrangements. See below.

### Average Cost of Living in Wollongong per Month – 2011

<table>
<thead>
<tr>
<th>Accommodation Type</th>
<th>Rent</th>
<th>Food prepared at home and other groceries</th>
<th>Food &amp; drinks bought at uni</th>
<th>Entertainment</th>
<th>Local travel</th>
<th>4 x Train tickets to Sydney</th>
<th>Bills, e.g. electricity</th>
<th>Text books</th>
<th>Personal ISP / cell phone</th>
<th>Personal purchases e.g. clothing</th>
<th>Total living cost/month $A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 bedroom apartment – own room, Central Wollongong &amp; UOW area</td>
<td>420</td>
<td>240</td>
<td>60</td>
<td>150</td>
<td>0</td>
<td>44</td>
<td>100</td>
<td>50</td>
<td>100</td>
<td>70</td>
<td>$1,234</td>
</tr>
<tr>
<td>4 bedroom shared house – own room, Central Wollongong &amp; UOW area</td>
<td>440</td>
<td>120</td>
<td>60</td>
<td>150</td>
<td>0</td>
<td>44</td>
<td>50</td>
<td>50</td>
<td>75</td>
<td>70</td>
<td>$1,059</td>
</tr>
<tr>
<td>4 bedroom shared house – shared room (2 people), Central Wollongong &amp; UOW area</td>
<td>360</td>
<td>120</td>
<td>50</td>
<td>150</td>
<td>0</td>
<td>44</td>
<td>50</td>
<td>50</td>
<td>75</td>
<td>70</td>
<td>$969</td>
</tr>
<tr>
<td>Home stay, Outside of Central Wollongong &amp; UOW region</td>
<td>1,100</td>
<td>0</td>
<td>30</td>
<td>150</td>
<td>100</td>
<td>44</td>
<td>0</td>
<td>50</td>
<td>50</td>
<td>70</td>
<td>$1,584</td>
</tr>
<tr>
<td>Uni accommodation (Campus East) – including approx. 19 meals per week</td>
<td>1,200</td>
<td>0</td>
<td>30</td>
<td>150</td>
<td>0</td>
<td>44</td>
<td>0</td>
<td>50</td>
<td>50</td>
<td>70</td>
<td>$1,584</td>
</tr>
<tr>
<td><strong>Average cost of living per month</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,284</td>
</tr>
</tbody>
</table>
CONNECT:
STUDY OPTIONS
**RESEARCH**

Research students at UOW have direct access to academics who play a pivotal role in the latest research developments, and you will be able to play an active and exciting part in research projects of international importance. In most cases, you will be allocated two supervisors to ensure maximum support for your research project.

UOW continues to develop its reputation in key niche areas of research including intelligent polymers and superconductors; biomolecular, physical and chemical sciences; intelligence and security; innovative engineering; medical and clinical research; transnational crime prevention; smart foods; public health; preventative health and health services; medical radiation physics; Asia – Pacific social transformation studies; and environmental conservation.

For those interested in an academic or research career, our research programs will ensure you achieve an advanced level of practice. For more information about research programs, see [uow.edu.au/research/rsc/prospective](https://uow.edu.au/research/rsc/prospective).

**TYPES OF RESEARCH DEGREES**

**DOCTOR OF PHILOSOPHY (3 YEARS)**

The UOW Doctor of Philosophy (PhD) is a three-year research-only program. Candidates’ work must make an original contribution to the body of knowledge in a specific discipline. Students are required to demonstrate their capability for independent research leading to the production of a written thesis of their research findings. For students interested in a four-year PhD program, see the Doctor of Philosophy Integrated over the page.

**PROFESSIONAL DOCTORATES (3–4 YEARS)**

These prepare professional leaders with research experience in their chosen area of study. Students usually undertake a thesis and approved study that may include specified coursework and/or practical work and/or performance. UOW offers Professional Doctorates in the areas of Business Administration, Public Health, Education, Psychology and Creative Arts.

**MASTERS BY RESEARCH (1–1.5 YEARS)**

The standard duration of the Masters by Research is 1.5 years, comprising two-thirds research (48 credit points) and one-third coursework (24 credit points). Advanced standing for some or the entire coursework component may be granted to those who have completed a substantial piece of written research, for example in a Bachelor (Honours) or Masters by Coursework degree. If advanced standing is granted for the full coursework component, the duration of the Masters by Research is one year.

**VISITING RESEARCH PRACTICUM PROGRAM**

The Visiting Research Practicum Program is designed for students from overseas universities who wish to come to UOW to obtain unpaid research experience or professional/industrial practice with a UOW research team. This professional practicum is for a limited period (usually between three and six months) and may be a formal requirement for the award of a degree at the student’s home university. A limited number of Visiting Research Practicum Scholarships are available each year to cover the supervision fee.

Application forms and further information are available at [uow.edu.au/future/studyabroad/research](https://uow.edu.au/future/studyabroad/research).

**ENTRY REQUIREMENTS FOR RESEARCH DEGREES**

Admission to a research degree normally requires the completion of a recognised four-year Bachelor (Honours) degree awarded at Class II, Division 2 or higher in a discipline relevant to the intended area of research. Completion of a Masters by Coursework degree containing substantial research or research methodology may also be considered. Some research courses have additional entry requirements.

These are included in the course descriptions in this course guide. Applicants to a PhD may in some cases be required to commence their enrolment in the relevant Masters by Research course and then apply to transfer to the PhD if they achieve a suitable standard.

DOCTOR OF PHILOSOPHY INTEGRATED (4 YEARS)
The Doctor of Philosophy (Integrated) is a four-year research degree which integrates a traditional three-year PhD thesis with one year of coursework subjects, combining generic research training and discipline-specific content into a single degree.

The coursework allows candidates to improve their research skills while allowing additional time to develop a detailed research topic, therefore providing greater certainty and better completion outcomes in the thesis.

The coursework also allows candidates to take individual subjects in a specific discipline area, thereby providing a deeper level of content from which to draw potential research themes. International students intending to become university researchers and teachers in their home country will benefit from exposure to Australian teaching methods through these subjects.

The PhD Integrated is therefore ideal for applicants who:

- want a flexible program that includes ‘taught’ subjects in a specific discipline area of their interest
- want or need further time and to develop a detailed research proposal
- need to develop their research training skills in order to demonstrate their capacity to undertake the major research thesis.

ENTRY REQUIREMENTS
Applicants should have a minimum of four years of study at degree level, either a four-year Bachelor degree, or a Bachelor degree plus Masters by Coursework, with a minimum Credit average (65% or GPA 3.0 out of 4.0), or equivalent.

Applicants for the PhD Integrated do not need to submit a detailed research proposal or referees’ reports. They should, however, provide a brief Supporting Statement of approximately 200 words outlining the broad area of intended future research and reason for wishing to enrol in a research program.

For further information on English language requirements, visit uow.edu.au/future/international/apply/english

COURSE STRUCTURE

YEAR ONE: COURSEWORK
All students complete one year (48 credit points) of coursework in the first year. This comprises research training skills and individual coursework subjects. Research skills are tailored for each faculty, but typically include: research methodology; literature review, critical analysis, or laboratory projects; and advanced topics or a minor research project.

The individual subjects are normally chosen from options within the Masters by Coursework degrees within the relevant faculty, thereby allowing you to obtain deeper content knowledge in a specific discipline area.

YEARS 2–4: RESEARCH
The research component is the same as for the three-year PhD program and leads to production of a written thesis. In order to progress to the research component, PhD Integrated students must complete the first year with an average of 65%, including 65% in each research training skills subject. Students progressing to the research component will have developed their specific research topic before commencing the research component.

Students not meeting the progression requirement into second year may be offered an alternative of transferring into a Masters program.

HOW TO APPLY FOR A RESEARCH PROGRAM

1. FIND A SUPERVISOR AND AN ACADEMIC UNIT
Your first step is to determine your preferred field of study and find the faculty or academic unit that will best meet your requirements. The University’s research strengths are listed below and detailed in the faculty sections of this brochure. You are encouraged to visit the staff web pages of each faculty to identify a potential supervisor who matches your area of research interest.

2. FIND A RESEARCH TOPIC
You must contact a potential supervisor of postgraduate studies or Faculty Head to discuss the broad plan for your research project prior to applying for admission. A list of Heads of Postgraduate Studies can be found at uow.edu.au/research/rsc/prospective

You will need to develop and submit a clear research proposal with your application. This proposal must summarise the topic/field of research you would like to pursue, including your proposed methodology and motivations for wanting to undertake this research.

For a guide on writing your research proposal, see uow.edu.au/future/international/apply/how

3. APPLY FOR ADMISSION
You can apply through an authorised UOW representative in your home country or directly to the university at apply.uow.edu.au All UOW research applications are online only.

The online application provides full details of the documents you must provide together with transcripts of all your academic qualifications:

- a one-page research proposal as detailed above
- a curriculum vitae which includes details of your previous research experience and academic prizes/awards, employment history, and a list of relevant written work and publications
- two referees’ reports.
UOW RESEARCH

RESEARCH THEMES

- Environmental Sustainability
- Innovative Materials Engineering & Manufacturing
- Health & Medical Research
- Information & Mathematical Sciences
- Society, Policy & Culture

RESEARCH STRENGTHS

The University is identified with the following areas of research strength:

Australian Health Services Research Institute
ahsri.uow.edu.au

Centre for Archaeological Science
cas.uow.edu.au

Centre for Health Initiatives
uow.edu.au/health/chi

Centre for Medical Bioscience
uow.edu.au/science/research/cmb

Centre for Medical Radiation Physics
uow.edu.au/eng/phys/cmrp

Centre for Medicinal Chemistry
uow.edu.au/science/research/cmc

Centre for Statistical and Survey Methodology
www.cssm.uow.edu.au

Engineering Manufacturing
uow.edu.au/eng/research/manufacturing

Engineering Materials Institute
uow.edu.au/eng/research/emi

GeoQuEST Research Centre
uow.edu.au/science/eesc/geoquest

Information and Communication Technology Research (ICTR) Institute
www.ictr.uow.edu.au

Institute for Conservation Biology & Environmental Management (ICBEM)
uow.edu.au/science/biol/icb

Institute for Innovation in Business and Social Research (IIBSoR)
iibsor.uow.edu.au

Institute for Mathematics and its Applications (IMIA)
imia.uow.edu.au

Institute for Social Transformation Research (ISTR)
uow.edu.au/arts/research/istr

Institute for Superconducting & Electronic Materials (ISEM)
isem.uow.edu.au

Institute for Transnational and Maritime Security
uow.edu.au/research/itams

Intelligent Polymer Research Institute / Centre of Excellence for Electromaterials Science (ACES)
ipri.uow.edu.au / www.electromaterials.edu.au

Interdisciplinary Educational Research Institute
ieri.uow.edu.au

EXTERNALLY FUNDED CENTRES

- Bluescope Steel Metallurgy Centre (Si)
- Centre for Human and Applied Physiology
- Defence Materials Technology Centre (DMTC)
- Energy Pipelines CRC
- Sustainable Buildings Research Centre (SBRC)
- ARC Centre of Excellence in Geotechnical Science and Engineering
- Bushfire CRC
- Capital Markets CRC
- CRC for Rail Innovation
- CRC for Polymers
- Desert Knowledge CRC
- Hearing CRC
- Smart Services CRC

Details of other research centres are included in the Faculty pages of this guide and on the UOW Research & Innovation website uow.edu.au/research/strengths
COURSEWORK

UOW Coursework programs are designed to help you make a real impact on your working environment. You will develop a practical and relevant skills base—critical in today’s workplace—from a range of courses which present the latest findings and contemporary practices from around the globe.

Many UOW Coursework programs take a cross-disciplinary approach, allowing you to tailor your qualification to a specific area of interest. You can elect to develop your expertise in a particular area to suit your current vocational goals or to change your career direction. A number of Masters programs also include the option to complete a research project.

COURSEWORK DEGREES

Coursework programs have all (or the majority) of their requirements met by the completion of face-to-face classroom subjects in a particular discipline or professional area. Assessment may be based on a combination of written assignments, presentations, formal examinations, class participation or practical exercises. Individual courses may offer students the chance to include a research subject.

There are three main types of coursework degrees:

MASTERS BY COURSEWORK (1–2 YEARS)

Direct admission normally requires a recognised Bachelor degree in the same discipline as the Masters degree, or in a related discipline. There are some exceptions which are open to students with a Bachelor degree in an unrelated major, including the MBA, Master of Commerce, Master of International Business, Master of Professional Accounting and Master of Computer Studies.

In other cases students will be required to qualify for entry to a Masters degree by successful completion of a Graduate Diploma or Graduate Certificate. In many cases the credit from these programs will transfer into the relevant Masters degree.

Courses that offer credit exemption into other postgraduate courses are grouped together at the end of each faculty section.

GRADUATE DIPLOMA (1 YEAR)
GRADUATE CERTIFICATE (6 MONTHS)

The courses leading to these awards vary in their purpose, and are designed for students who may be:

- seeking to take a different educational direction from their Bachelor degree; OR
- those without a recognised Bachelor degree but with other academic qualifications and/or relevant professional experience who wish to progress to a Masters degree; OR
- seeking a professional development course at postgraduate level.

TWO-YEAR POSTGRADUATE STUDY OPTIONS

The options for two years of study in postgraduate coursework include:

- packages of two one-year Masters degrees
- two-year single Masters courses
- double Masters courses offered over two years
- the opportunity to complete one Masters course and move into a second Masters course, with the benefit of credit transfer from the first course.

These are available within and across these fields of study:

- commerce and business
- informatics and computing
- engineering
- health and behavioural sciences
- science

Full details of these courses are under highlighted “two-year programs” in the faculty sections of this guide.

Students seeking to qualify for visas to remain in Australia after their studies are completed on the basis of “two years of full-time study” should be aware that by being awarded the full credit exemption available through a credit transfer arrangement, the pattern of resulting study may not meet the Australian Department of Immigration and Citizenship (DIAC) definitions of “full-time study”.

COURSE STRUCTURES

Coursework degrees at UOW are based on a credit point structure. Individual subjects are allocated a credit point value: the majority of subjects have a value of 6 or 8 credit points (cp) each. A typical structure for a one-year coursework degree is the completion of eight subjects worth 6cp each, totalling 48 credit points. Details of the credit points required to complete each degree are shown next to the duration for each course. You should note the following when reading the course structure information:

- not all elective subjects are available in all years
- you should verify details of the latest course structures and subjects within the relevant faculty via the online Course Handbook at uow.edu.au/handbook/current/pg
- individual subjects shown in the course structures may have their own prerequisites which have to be satisfied before enrolment is permitted in that subject.
Postgraduate study in Arts will equip you with the capacity for rigorous and disciplined analysis. You will develop your skills in critical enquiry and creative reflection and be open to cultural diversity. UOW’s Faculty of Arts fosters an international outlook and graduates will be able to adapt easily to changing environments in the national and international arena.

Many of our postgraduate coursework students have already established careers and are seeking to sharpen their skills or gain work-related qualifications.

Recent graduates work as policy analysts, researchers in Foreign Affairs and Trade, advisers to politicians, research historians with large companies, and in the welfare sector. We have numerous graduates with careers in journalism and publishing, international aid, the diplomatic corps, heritage consultancy, legal services, environmental projects, strategic planning, community development, arts administration and academia.

The Faculty of Arts is internationally regarded for its excellence in teaching and research in Australian, Asian, Postcolonial, Hegemony, Media and Communications Studies. Our research students have opportunities to join a research program in the Centre for Asia – Pacific Social Transformation Studies (CAPTRANS), an Australian Research Key Centre for Teaching and Research.

SCHOOLS WITHIN THE FACULTY

SCHOOL OF ENGLISH LITERATURES & PHILOSOPHY
uow.edu.au/arts/selpl

The School of English Literatures & Philosophy incorporates the following programs: English Studies Program; Science, Technology and Society; and the Philosophy Program. Our courses combine study of language, culture, knowledge and ethics, which leads to a variety of exciting career paths.

SCHOOL OF SOCIAL SCIENCES, MEDIA & COMMUNICATION
uow.edu.au/arts/ssmac

The School of Social Sciences, Media & Communication incorporates the following disciplines: Media and Cultural Studies, Digital Communication and Sociology. The courses offered by our School contribute to the understanding and solutions to many of contemporary society’s complex issues and problems. The School’s courses provide skills relevant to a number of career sectors: social policy and administration, social activism, media and cultural industry; as well as communication, digital communication, public relations, and marketing.

LANGUAGE CENTRE
uow.edu.au/arts/language

Proficiency in more than one language is an advantage in today’s globalised economies. The Language Centre offers subjects in Asian and European languages and academics in the Centre have strong reputations for teaching excellence.

For more information on the Faculty of Arts see uow.edu.au/arts

For information on specific courses and subjects available in the Faculty go to uow.edu.au/handbook/current/pg/arts

SCHOOL OF HISTORY & POLITICS
uow.edu.au/arts/histpol

The School of History & Politics offers students the interpretive tools with which they may attempt to understand the past and the present. Offerings include areas such as social movements, political theory/economy, war and state development, labour studies, global studies, employment relations and varieties of history including culture and civilisations. Our subjects explore a wide variety of topics from dictatorships to the latest anti-globalisation protest.
RESEARCH CENTRES AND INTERESTS

INSTITUTE FOR SOCIAL TRANSFORMATION RESEARCH
uow.edu.au/arts/research/istr

The Institute is dedicated to expanding our capacity to understand and engage with our rapidly changing social, cultural and geopolitical environment. ISTR aims to build Australia’s capacity to understand and engage with globalising forces in an increasingly technological landscape.

Research conducted by ISTR is practical and project-based, involving collaboration across disciplines including politics, sociology, philosophy, cultural studies, literary studies, language and linguistics, creative arts, geography, media studies, history, anthropology, economics and law.

ISTR projects are at the cutting edge of creative and community-engaged research in the humanities, creative arts and social sciences, and have a shared focus on understanding the impact of globalisation on the pace of social and cultural transformation in our region and across the globe.

ISTR broad themes:
- Social thought and action
- Creative practice and cultural innovation
- Regional change and transformation

Associated research centres:
- Centre for Asia – Pacific Social Transformation Studies (CAPTRANS)
- Centre for Australian Aotearoa New Zealand Studies
- Centre for Research on Men and Masculinities (CROMM)

For more information on the Faculty’s research interests, including Literature, Identity and Culture (LIC) please see uow.edu.au/arts/research

DOCTOR OF PHILOSOPHY (PHD)
CRICOS 003086C

Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF ARTS – RESEARCH
CRICOS 042530D

Duration 1-1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

The Doctor of Philosophy and Master of Arts – Research programs may be undertaken in: Asia – Pacific Studies; Australian Studies; Communications; Digital Communication; Employment Relations; Global Labour Studies, English Literatures; History; International Studies; Italian; French; Japanese; Spanish; Linguistics; Media and Cultural Studies; Philosophy; Ethics; Politics; Postcolonial Literatures; Science, Technology and Society; Social Change and Development; Gender Studies; Sociology.

Interdisciplinary topics as negotiated with the Head of Postgraduate Studies are also available for study.

COURSEWORK DEGREES

MASTER OF INTERNATIONAL STUDIES ADVANCED
CRICOS 064300C

Duration 1.5 years (72cp)
Starting sessions Autumn/Spring

MASTER OF INTERNATIONAL STUDIES
CRICOS 064299B

Duration 1 year (48cp)
Starting Autumn/Spring

Entry Requirements Recognised Bachelor degree with a major or minor sequence in a relevant discipline. Students with a qualification from another field or appropriate professional experience will also be considered.

Note: Direct entry to the Master of International Studies Advanced requires a UOW Bachelor of International Studies (BIS) degree with a WAM of 70% or more. Students enrolled in the Master of International Studies (48cp) who achieve a WAM of 70% or more will also be considered for entry.

This multidisciplinary program develops professional and academic experience in public affairs, diplomacy, government relations, development practices/protocol, journalism and NGOs. The program combines theoretical perspectives with empirical studies and policy oriented perspectives. Graduates will develop a strong understanding of the dynamics of internationalisation, globalisation, development and social change.

Upon completion of the Master of International Studies, the Advanced degree offers the opportunity to undertake a 15,000–20,000 word research thesis or an extensive international internship and a complete report.

COURSE STRUCTURE

Compulsory subjects:
- International Law and Diplomacy
- Transforming Asia
- International Economic Relations
- Social Change and Development

Plus two of the following:
- Politics of International Relations
- Politics in the South Pacific
- Diplomatic History
- Principles of Social Impact Assessment
- Globalisation and Citizenship
- Labour and Migration
- Comparative Public Policy
- Advanced Topics in International Studies

Students in the Advanced program also complete one of the following:
- Thesis in International Studies
- Internship in International Studies
At the Sydney Business School (SBS) we have built on the traditional strength and reputation of the University of Wollongong and developed a strong reputation for providing innovative educational opportunities.

At SBS we have established strong ties with the business community and our academic staff have a range of national and international business and industry experience. This expertise has resulted in the development of academic programs that will prepare you for careers in a number of business disciplines, and develop your ability to negotiate complex business environments with a strong focus on leadership.

Opportunities for lifelong learning at the SBS include a varied academic portfolio of an MBA, six professional Masters programs and three doctoral programs (DBA/PhD/PhD Integrated).

The SBS has ranked in the QS 2011 Business School Ratings’ global top 200 business schools for the third year running. We are now the third highest Australian business school.

The Sydney Business School’s MBA is one of only eight university MBA programs to be accorded the highest ranking in the Graduate Management Association of Australia’s (GMAA) star rating classification.

In 2011, SBS was awarded the Australian Supply Chain and Logistics Award (ASCL) for Training Education and Development by the ACT and Southern NSW Division of the Supply Chain & Logistics Association of Australia (SCLAA) in recognition of our contribution to developmental programs relevant to the supply chain and logistics industry and our ongoing commitment to supporting the industry.

SBS offers a range of professional short courses and executive education to corporate, industry and government partners. Current partnerships include a Supply Chain Executive Program for logistics professionals, offered in conjunction with Efficient Consumer Response Australia (ECR) and global IT company Accenture.

Internationally, our School is involved in partnerships with overseas educational organisations in France, Spain, Thailand, UK and USA. Nationally, SBS is a founding member of the Australian National Business School.

SBS LOCATIONS

The Sydney Business School operates from two main locations, UOW’s Innovation Campus (iC) in North Wollongong and Sydney CBD.

SBS at iC combines the lifestyle advantages of the coastal location in Wollongong with custom teaching facilities close to UOW main campus. SBS Sydney combines the convenience and vibrancy of an inner-city location with the proven quality of a UOW education. SBS courses are also delivered at the University of Wollongong in Dubai (UOWD) in the United Arab Emirates.

AUSTRALIAN NATIONAL BUSINESS SCHOOL

www.anbs.com.au

The Sydney Business School is a founding member of the Australian National Business School (ANBS), a consortium of six Australian universities dedicated to the provision of high quality, innovative management education. Through our membership of ANBS our students have access to the combined resources of the member universities. Being a member of the ANBS the School also offers students the opportunity to participate in the annual intensive Southeast Asian summer school, which provides students and managers from throughout the world with an opportunity to strengthen their understanding of global management issues, with a particular focus on Asia. This program generally involves two weeks of intensive study in Penang, Malaysia.

PROFESSIONAL LINKS

The SBS has been accredited by and/or gained membership of a number of professional bodies in order to ensure the quality of its programs. These include:

- Chartered Institute of Logistics and Transport in Australia (CILTIA)
- Chartered Institute of Logistics and Transport in UK (CILTUK)
- Chartered Institute of Purchasing and Supply (CIPS)
- Hong Kong Logistics Association (HKLA)
- UAE Ministry of Higher Education
- Australian National Business School (ANBS)
- Logistics Association of Australia
- Australia & New Zealand Academy of Management
- Australian Industry Group
- Dubai Quality Group
- Australian Business in the Gulf

Information on the SBS can be found at: uow.edu.au/sbs

Detailed course and subject information can be found at: uow.edu.au/handbook/current/pg/sbs
RESEARCH CENTRES AND INSTITUTES

AUSTRALIAN HEALTH SERVICES INSTITUTE (AHSRI)
ahsri.uow.edu.au

AHSRI is a self-funded health services research and development (R&D) Institute. It comprises eight research centres including the Centre for Health Service Development (CHSD). AHSRI operates within the faculty structure of the University of Wollongong and remains as part of the Sydney Business School. The Institute aims to improve the management and provision of health and community services in Australia by achieving greater equity in resource distribution, fairer access to services, better continuity within and across the health and community care sectors, and the use of evidence to assist management decision-making.

CENTRE FOR SUPPLY CHAIN SOLUTIONS
uow.edu.au/SBS/research

This Centre is one of Australia’s leading research institutions dedicated to supply chain management. The mission of the Centre is to develop and analyse successful strategies for improving competitiveness through successful management of global supply chains. The Centre conducts applied research to solve the challenging supply change problems encountered by businesses. It has attracted large amounts of funding from public companies including BlueScope, Toll Holdings and Manugistics.

AUSTRALIAN INSTITUTE OF BUSINESS WELLBEING (AIBWB)
uow.edu.au/sbs/aibwb

The AIBWB combines psychology with business by examining individual and organisational wellbeing and their interaction, known as business wellbeing. The Institute explores the connection between the wellbeing of employees and the wellbeing of an organisation and conducts related research involving governance and ethics, business excellence, positive organisational scholarship and social marketing within organisations.

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PHD)
CRICOS 059329K

Duration 3 years
Starting sessions Autumn/Spring
Location Innovation Campus – Wollongong
Entry Requirements Listed on page 19.

DOCTOR OF PHILOSOPHY (PHD) INTEGRATED
CRICOS 072794J

Duration 4 years
Starting trimester 1
Location Innovation Campus – Wollongong
Entry Requirements Listed on page 19.

DOCTOR OF BUSINESS ADMINISTRATION (DBA)
CRICOS 047714A

Duration 3 years
Starting trimester 1
Location Innovation Campus – Wollongong
Entry Requirements An MBA or Masters degree related to business or management plus relevant work experience. Applicants should also submit a 2000-word proposal describing their preferred areas of research interest. Research interests should be related to topics listed on the SBS website.

The DBA focuses on professional business practice, providing managers with research skills that can be applied to issues of organisational leadership.

The DBA differs from a PhD as it comprises one-third coursework subjects (48cp) and two-thirds research (96cp). The coursework component provides students with the opportunity to develop a detailed research topic and the skills and research methodologies necessary to successfully complete the research component.

MASTER OF BUSINESS – RESEARCH
CRICOS 068082J

Duration 1.5 years
Starting trimester 1
Location Innovation Campus – Wollongong, Sydney
Entry Requirements Recognised Bachelor degree with an average mark of at least 60%.

COURSEWORK DEGREES

All MBA programs are available in Sydney and Wollongong (Innovation Campus).

MASTER OF BUSINESS ADMINISTRATION ADVANCED
CRICOS 048696M

Duration 2 years (six trimesters) (96cp)
Starting trimesters 1, 2, 3

MASTER OF BUSINESS ADMINISTRATION (MBA)
CRICOS 013031G

Duration 16 months full-time (four trimesters) (72cp)
Starting trimesters 1, 2, 3

GRADUATE DIPLOMA IN BUSINESS ADMINISTRATION
CRICOS 029140E

Duration 1 year full-time (three trimesters) (48cp)
Starting trimesters 1, 2, 3

GRADUATE CERTIFICATE IN BUSINESS ADMINISTRATION
CRICOS 029139J

Duration 4 months full-time (one trimester) (24cp)
Starting trimesters 1, 2, 3

Entry Requirements A recognised Bachelor degree with an equivalent average mark of 60%, plus a minimum of two years’ relevant full-time professional experience.

NOTE: In the case of students progressing to the MBA from one of the degrees featured on page 28, the requirement is at least one year full-time of relevant professional experience.

Business Administration courses are fully integrated, allowing progression between each course level as shown:

Course Progression
MBA Advanced 16 subjects
MBA 12 subjects + 4 more subjects = MBA Advanced
GradDip BA 8 subjects + 4 more subjects = MBA
GradCert BA 4 subjects + 4 more subjects = GradDip BA

The MBA will further develop managerial skills for experienced professionals. The program is academically rigorous and instructed by lecturers with a wealth of international industry experience.
UOW MBA graduates obtain key management skills ranging from strategic analysis and decision making to corporate governance, strategic finance, marketing and an appreciation for global business challenges. Our graduates are equipped to make strong and informed managerial decisions in the increasingly competitive global business environment.

The Sydney Business School’s MBA is one of only eight university MBA programs to be accorded the highest ranking in the Graduate Management Association of Australia’s (GMAA) star rating classification. The GMAA is the nationally recognised Professional Association for graduates with MBA and other postgraduate business qualifications in Australia.

COURSE STRUCTURE
MBA core subjects:
- Accounting for Managers
- Managing People in Organisations
- Marketing Management
- Economic Analysis of Business
- Financial Strategy
- Corporate Governance
- International Business Strategy
- Strategic Decision Making

An additional four elective subjects are chosen from other SBS or postgraduate-level approved university subjects to extend the range of disciplinary studies, or to focus on one specific area.

MBA Advanced students complete the MBA plus an additional four 6cp electives, specialising in one of the following disciplines:
- General Management *
- International Business *
- Logistics *
- Project Management *
- Retail Management *
- Accounting
- Finance
- Economics
- Human Resource Management
- Information Systems
- Management
- Marketing
- Engineering
- Engineering Management
- Environmental Engineering
- Engineering Asset Management
- Health Management
- Public Health
- Internet Technology
- Electronic Commerce
- Information Technology Management
- Information and Communication Technology

* All specialisations are available at Wollongong Innovation Campus. General Management, International Business, Logistics, Project Management and Retail Management are the only specialisations offered at Sydney campus.

CREDIT EXEMPTION
Credit exemption of up to three subjects is available for members of the following professional accounting bodies, providing they meet specified criteria:
- Australian Society of Certified Practising Accountants (ASCPA)
- Institute of Chartered Accountants in Australia (ICAA)
- Association of Chartered Certified Accountants (ACCA)
- Chartered Institute of Management Accountants (CIMA)
- Hong Kong Society of Accounting (HKSA)
- Chartered Institute of Secretaries
- Australian Institute of Company Directors

PROGRESSION INTO THE MBA
The Sydney Business School offers the opportunity to complete two Masters degrees in a maximum of two years through its credit transfer arrangements into the MBA from these degrees.

Faculty/School | Course | Page
---|---|---
Commerce | All coursework Master degrees | 33
Sydney Business School | Master of International Business, | 28
| Master of Retail Management, | 29
| Master of Project Management, | 29
| Master of Science (Logistics), | 29
| Master of Management | 29

Engineering | Master of Engineering Management, | 50
| Master of Engineering Practice | 

Health & Behavioural Sciences | Master of Health Leadership and Management | 56

Informatics | Master of Information Technology Management | 63

Entry Requirements for the above degrees can be found in the relevant faculty page as noted.

In addition to the entry requirements for the first degree, students must also meet the MBA professional experience requirement: in the case of students progressing to the MBA from one of the degrees above, the requirement is at least one year full-time of relevant professional experience.

IMPORTANT NOTE
Students seeking to qualify for visas to remain in Australia after their studies are completed on the basis of “two years of full-time study” should be aware that by being awarded the full credit exemption available, the pattern of resulting study may not meet the Australian Department of Immigration and Citizenship (DIAC) definitions of “full-time study”.

Such students are advised to take a further eight subjects in the MBA.

MASTER OF INTERNATIONAL BUSINESS (MIB)
CRICOS 026342G

Duration 1 year full-time (three trimesters) (48cp)

Starting trimesters 1, 2, 3

Location Innovation Campus – Wollongong, Sydney

Entry Requirements: A recognised Bachelor degree with an equivalent average mark of 50%.

The Master of International Business (MIB) examines issues impacting primarily on the Asia – Pacific region. Business operation in this region is continually being transformed, providing many challenges for implementing international business strategies. The MIB program prepares students to succeed in managerial and professional positions in the global economy. UOW MIB graduates will understand complexities of global culture and recognise how they can impact on the success of their business.

COURSE STRUCTURE
- International Financial Management
- Managing in Multi-National Companies
- Marketing in a Global Economy
- International Business Environment*
- International Business Strategies

* A prerequisite for International Business Strategies
Plus an additional three electives from the following:

- Supply Chain and Operations Management
- Innovation Topics and Cases
- Contemporary Issues in International Business
- Project Management
- Retail Management
- Retail Marketing
- Quality Management
- Business Spanish Language and Culture
- Business Chinese Language and Culture

**MASTER OF MANAGEMENT**

CRICOS 048588D

Duration 1 year full-time (three trimesters) (48 cp)

Starting trimesters 1, 2, 3

Location Innovation Campus – Wollongong, Sydney

Entry Requirements A recognised Bachelor degree with an equivalent average mark of 60%.

The Master of Management enables practising managers to enhance their career opportunities by tailoring a degree that satisfies individual professional needs. The course comprises eight subjects chosen from the overall portfolio of subjects offered by the SBS, allowing for greater flexibility of subject content and skills training. Programs of study are negotiated on an individual basis with the Program Director.

**MASTER OF PROJECT MANAGEMENT**

CRICOS 061946M

Duration 1 year full-time (three trimesters) (48 cp)

Starting trimesters 1, 2, 3

Location Innovation Campus – Wollongong, Sydney

Entry Requirements A recognised Bachelor degree with an equivalent average mark of 60%.

The Master of Project Management provides students with skills that are easily transferable to key industry sectors such as manufacturing, construction, government and the service sectors. Graduates will be able to provide organisations with improved ability to plan, implement and control their business activities. Organisations will look for such skills in order to enhance the performance of their businesses.

**COURSE STRUCTURE**

- Accounting for Managers
- Managing People in Organisations
- Information Systems for Managers
- Supply Chain and Operations Management
- Management Project
- Project Management
- Advanced Project Management
- Quality in Management

**MASTER OF RETAIL MANAGEMENT**

CRICOS 061990G

Duration 1 year full-time (three trimesters) (48 cp)

Starting trimesters 1, 2, 3

Location Innovation Campus – Wollongong, Sydney

Entry Requirements A recognised Bachelor degree with an equivalent average mark of 60%.

Retailing is one of the fastest growing areas for employment. Globally, competition is increasing with the growth of the Internet, new forms of technology and consumers who are looking for better value and higher quality service. As a result, retailers require managers with the necessary skills to meet these challenges.

The Master of Retail Management equips students with strategies for dealing with issues unique to retail and the education necessary to succeed in leadership roles within the sector.

**COURSE STRUCTURE**

- Retail Management
- Retail Marketing
- Accounting for Managers
- Managing People in Organisations
- Marketing Management
- Information Systems for Managers
- Supply Chain and Operations Management
- Management Project

**MASTER OF SCIENCE (LOGISTICS)**

CRICOS 042635F

Duration 1 year full-time (three trimesters) (48cp)

Starting trimesters 1, 2, 3

Location Innovation Campus – Wollongong, Sydney

Entry Requirements Bachelor degree in a relevant discipline, typically Commerce, Engineering, Maths or IT, with an equivalent average mark of 60%. Applicants with a Bachelor degree in another discipline may be admitted with two years’ relevant industry experience.

The Master of Science (Logistics) provides professionals working in logistics and operations management with the skills to manage the flow of materials and information within and between organisations and their business environment. Students will learn how to implement a supply chain strategy, develop skills in forecasting, production, service planning and scheduling and understand client buying behaviours in order to achieve operational excellence. An emphasis is given to information technology systems and computer programs as these are increasingly integral to successful supply chain delivery.

**COURSE STRUCTURE**

- Supply Chain and Operations Management
- Quantitative Methods for Decision Making
- Strategic Supply Chain Management
- Logistics Systems
- Procurement Management
- Project Management
- Quality in Management
- Accounting for Managers

**PROFESSIONAL RECOGNITION**

The Master of Science (Logistics) is accredited by the Chartered Institute of Logistics and Transport and the Chartered Institute of Purchasing and Supply.

**LANGUAGE SUBJECTS**

Students in any of the SBS Masters degrees may apply to take either Business Chinese Language and Culture OR Business Spanish Language and Culture in the place of one core subject. These language subjects are intended for those who wish to acquire knowledge of the Chinese or Spanish language for use in a practical business context, and for those seeking to build business relationships with Chinese or Spanish speaking people at a managerial level. The language functions and business vocabulary presented in the subjects are appropriate to a number of commercial situations.
PATHWAY TO MASTERS COURSES AT SBS

GRADUATE CERTIFICATE IN BUSINESS
CRICOS 061244G

Duration 4 months full-time (one trimester) (24cp)
Starting trimesters 1, 2, 3
Location Innovation Campus – Wollongong, Sydney
Entry Requirements Bachelor degree in any area or other combination of academic qualifications and/or relevant professional experience (for example: two-year full-time academic qualifications plus two years’ relevant professional experience; or three years’ full-time academic qualifications).

The Graduate Certificate is a pathway program leading to entry to the Master of International Business, Master of Management, Master of Project Management, Master of Retail Management and Master of Science (Logistics). The Graduate Certificate may be suitable for students who do not meet either the English language requirement for direct entry to a Master degree or the academic requirements for direct entry into Master degrees.

COURSE STRUCTURE
- Statistics for Decision Making
- Foundations in Business Studies
- Introduction to Contemporary Business Practice
- Communication for International Business

PROGRESSION TO MASTERS COURSES
Students completing the Graduate Certificate in Business with an average mark of at least 60% will automatically qualify for entry.

GRADUATE CERTIFICATE IN BUSINESS ADMINISTRATION
CRICOS: 029139J

GRADUATE CERTIFICATE IN INTERNATIONAL BUSINESS
CRICOS: 047005G

GRADUATE CERTIFICATE IN LOGISTICS
CRICOS: 042560J

GRADUATE CERTIFICATE IN PROJECT MANAGEMENT
CRICOS: 061989M

GRADUATE CERTIFICATE IN RETAIL MANAGEMENT
CRICOS: 061988A

GRADUATE CERTIFICATE IN MANAGEMENT
CRICOS: 020195G

Graduate Certificate programs are designed as professional foundation courses for students wanting a postgraduate qualification that can be completed in as little as four months. Students complete four postgraduate-level subjects (24 credit points) selected from the relevant Masters degree.

Starting trimester 1, 2, 3
Entry Requirements As for the corresponding Masters program.
Location Innovation Campus – Wollongong, Sydney

PROGRESSION TO MASTERS COURSES
Students who wish to extend their studies can, on successful completion of the Graduate Certificate, proceed to the relevant Masters course, which can be completed with a further four to eight months of study.

TWO-YEAR PROGRAMS
The following options are available to those interested in completing two years of study.

TWO-YEAR COURSES
- MBA Advanced

1+1 PROGRAMS
You may combine single SBS Masters degrees to form a two-year study program and receive a 25% subject exemption in your second Masters degree. The following Masters courses can form two-year programs, in any order:
- Master of International Business
- Master of Science (Logistics)
- Master of Management
- Master of Retail Management
- Master of Project Management

IMPORTANT NOTE
Students seeking Graduate Skilled Migration on the basis of “two years of full-time study” should be aware that by being awarded the full credit exemption available, the pattern of resulting study may not meet the Australian Department of Immigration and Citizenship (DIAC) definitions of “full-time study”. Such students are advised to take a further eight subjects in their second Masters degree.

See page 28 for the full list of Masters degrees which can be combined with the MBA to form a two-year program of study.
Studying Commerce at UOW is a positive investment in your future—our postgraduate degrees are internationally recognised professional qualifications that provide a sound foundation for a wide range of career options.

Our programs put you in touch with the major issues and developments affecting organisations and society. We prepare you to work, research and manage in a variety of business contexts including government and non-profit organisations. You will be provided with the latest insights and research available. Our programs are designed to give you the analytical, strategic and leadership expertise you need in today’s business world.

Our Faculty purpose is to inspire socially innovative commerce, linking business innovation across private, non-profit and government sectors for the collective wealth and wellbeing of our planet. This principle is underpinned by an understanding of genuine corporate social responsibility, environmental sustainability, personal and business ethics, and human rights.

The Faculty of Commerce has a strong reputation within Australia and overseas for the quality of our teaching and research and our reputation is reflected in the business community’s demand for our graduates.

The Commerce International Unit provides ongoing support for international students, with dedicated staff to assist all enquiries from small questions to major issues.

For additional information on the Faculty, please visit uow.edu.au/commerce

For course information please visit uow.edu.au/handbook/current/pg/commerce

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**COMMERCE KEY RESEARCH AREAS**

**INSTITUTE FOR INNOVATION IN BUSINESS AND SOCIAL RESEARCH (IIBSOR)**

iibsr.uow.edu.au

IIBSr was created in 2009 as a Research Strength of the University of Wollongong. The Institute brings together leading resources from three outstanding University of Wollongong Research Centres:

- Centre for Business Services Science (CBSS)
- Market Research Innovation Centre (MRIC)
- Centre for Applied Systems Research (CASR)

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**SOCIAL INNOVATION NETWORK (SINET)**

research.uow.edu.au/sinet

The SInet stands for the development of new concepts, strategies and tools that empower people and organisations to improve quality of life. The SInet provides a focus for interdisciplinary research across the social sciences within the University of Wollongong in the pursuit of social innovation.

**MARKETING RESEARCH INNOVATION CENTRE (MRIC)**

uow.edu.au/commerce/smm/mark/mric

The MRIC’s mission is to make a significant contribution to the development of marketing research methods.

**PEOPLE AND ORGANISATION RESEARCH CENTRE**

uow.edu.au/commerce/smm/mgmt/porc

Members have a broad range of interests and projects are clustered within the Centre according to orientation: change, critical studies, identity, international, and new and precarious systems.

**ACTIVITY THEORY USABILITY LABORATORY (ATUL)**

uow.edu.au/commerce/research/atul

ATUL is the hub of an open, global community of researchers who interpret the world through Activity Theory.

**CENTRE FOR KNOWLEDGE MANAGEMENT**

uow.edu.au/commerce/research/ckm

The Centre for Knowledge Management has developed a set of Knowledge Accounts that measures the value of people’s knowledge in order to develop practical solutions to real knowledge management issues.
OTHER RESEARCH GROUPINGS

SCHOOL OF ACCOUNTING AND FINANCE

CHINESE COMMERCE RESEARCH CENTRE (CCRC)

uow.edu.au/commerce/research/ccrc

The primary aim of CCRC is to undertake research in the areas of finance, accounting and business by using the Chinese dataset with its seemingly unique institutional settings.

SOCIAL ACCOUNTING AND ACCOUNTABILITY RESEARCH CENTRE

uow.edu.au/commerce/research/saarc

SAARC members research the social, environmental and political implications of accounting.

SCHOOL OF ECONOMICS

HEALTH, ENVIRONMENT, DEVELOPMENT AND GROWTH ECONOMICS (HEDGE)

uow.edu.au/commerce/research/hedge

HEDGE is an economics-based research centre with a focus on interrelationships between health, environment, international relations, growth and wellbeing.

CENTRE FOR HUMAN AND SOCIAL CAPITAL RESEARCH (CHSCR)

uow.edu.au/commerce/research/chscr

CHSCR supports research into all aspects of human and social capital, including its acquisition, its costs and benefits and its implications for economic and social wellbeing.

CENTRE FOR SMALL BUSINESS AND REGIONAL RESEARCH (CSBRR)

uow.edu.au/commerce/research/csbrr

CSBRR brings together researchers from across the University of Wollongong and other institutions and bodies both in Australia and internationally who are interested in this field.

SCHOOL OF MANAGEMENT AND MARKETING

CENTRE FOR APPLIED SYSTEMS RESEARCH (CASR)

uow.edu.au/commerce/smm/mgmt/casr

CASR actively promotes social innovation in the analysis, design, implementation and evaluation of intra- and inter-organisational systems both organisational and technical.

CENTRE FOR RESEARCH IN SOCIALLY RESPONSIBLE MARKETING (CRSRM)

uow.edu.au/commerce/research/crsrm

CRSRM is focused primarily on social marketing, corporate social responsibility and sustainability, and covers the public, private and non-profit sectors.

CAPITAL MARKETS COOPERATIVE RESEARCH CENTRE (CMCRC)

www.cmcrc.com

This Centre aims to develop new technologies and knowledge that drive the future of capital markets.

Read more on the Faculty’s research interests at uow.edu.au/commerce/research

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PHD)

CRICOS 001247B

Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.
- Accountancy
- Economics
- Finance
- Management
- Marketing

DOCTOR OF PHILOSOPHY (PHD) INTEGRATED

CRICOS 072855A

Duration 4 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF ACCOUNTANCY – RESEARCH

CRICOS 042547F

MASTER OF ECONOMICS – RESEARCH

CRICOS 042548E

MASTER OF FINANCE – RESEARCH

CRICOS 042549D

MASTER OF MANAGEMENT – RESEARCH

CRICOS 042545G

MASTER OF MARKETING – RESEARCH

CRICOS 042552J

Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.
COURSEWORK DEGREES

MASTER OF COMMERCE

CRICOS 060472D

Duration 1 year (48 cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree.

This program is designed for non-Commerce graduates in order to give them the fundamental skills to obtain a stand-alone qualification. The Master of Commerce allows graduates to enter careers in either small- or large-scale business contexts as well as facilitating entry to a more specialised degree offered through the Faculty’s double Masters programs.

Note: Students who gain admission to the Master of Commerce on the basis of a recognised Bachelor degree in business, accountancy or finance, and who complete the first session with an average mark of 60%, have the option to fast-track entry into a specialist Commerce degree.

COURSE STRUCTURE

All students complete the following compulsory subjects:

- Accounting Foundations for Professionals
- Economics for Professionals
- Marketing Management
- Fundamentals of Management

A student may complete the Master of Commerce without a specialisation, choosing a further four subjects from across the Faculty’s postgraduate subjects.

Alternatively, a student can complete the Master of Commerce with a specialisation in one of these areas:

<table>
<thead>
<tr>
<th>Major</th>
<th>Subjects In Specialisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Commerce</td>
<td>Electronic Commerce and the Economics of Information, eBusiness Technologies, Internet Applications for Marketing; together with another postgraduate subject from the Faculty of Commerce</td>
</tr>
<tr>
<td>Organisational Innovation</td>
<td>Management of Change, Innovation and Entrepreneurship; together with two of the following: Creating and Marketing New Products, Human Resources Development, Strategic Management, Organisational Behaviour, Organisational Analysis, Small Business Management, Leading Organisations – Politics, Power and Change Agency, Special Topics A</td>
</tr>
<tr>
<td>Regional Development</td>
<td>Small Firms and the Economy, Regional Development, Tourism Marketing; together with one of the following: Advanced Topics in the Economics of Development, Innovation and Technology in the New Economy, Innovation and Entrepreneurship, Small Business Management</td>
</tr>
<tr>
<td>Public Relations</td>
<td>See page 37</td>
</tr>
<tr>
<td>Finance</td>
<td>See page 35</td>
</tr>
</tbody>
</table>

PATHWAY TO MASTERS COURSES IN THE FACULTY OF COMMERCE

GRADUATE CERTIFICATE IN COMMERCE

CRICOS 055108M

Duration 6 months (24cp)
Starting sessions Autumn/Spring
Entry Requirements A recognised Bachelor degree in any area OR a combination of three years’ academic/professional qualifications AND three years of full-time work experience in a business context.

The Graduate Certificate in Commerce is designed to provide a pathway to Masters degrees within the Faculty of Commerce. It will provide students with the necessary skills and knowledge across a range of essential commerce subjects.

COURSE STRUCTURE

- Accounting Foundations for Professionals
- Economics for Professionals
- Marketing Management
- Fundamentals of Management

PROGRESSION TO MASTERS COURSES

On completion of the Graduate Certificate in Commerce with an overall average of 60%, students may apply to transfer into either the Master of Commerce or the Master of Commerce – Master of Professional Accounting. Successful applicants will be required to complete a further 24 credit points of coursework from the Master of Commerce schedule or 72 credit points of coursework from the Master of Professional Accounting schedule.

Students who hold a degree in business or commerce from a recognised tertiary institution and who achieve an overall average of 60% in the Graduate Certificate in Commerce may be eligible to transfer into a specialised Commerce Masters program other than the Master of Commerce.
ACCOUNTING

MASTER OF ACCOUNTANCY
CRICOS 042526M

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in accountancy with an equivalent average mark of at least 60%. Applicants with a combination of other university qualifications plus relevant professional experience may also be considered.

The Master of Accountancy is an advanced program which builds on students’ accounting skills, particularly in the areas of auditing, applied financial and management accounting, and international accounting. It develops in-depth understanding and capacity to critique the research and practice of accounting.

COURSE STRUCTURE
Students complete the following compulsory subjects:
- Theoretical Constructions of Accounting and Finance
- Financial Accounting
- Empirical Research Methods
- Management Accounting

Plus four electives from the following:
- International Accounting
- Social and Environmental Accountability
- Management Planning and Control Systems
- Management and Information Systems
- Insolvencies
- Accounting Regulation
- Commerce Research Proposal

MASTER OF PROFESSIONAL ACCOUNTING (MPA)
CRICOS 067241F

Duration 1.5 years (72cp)
Starting sessions Autumn/Spring

MASTER OF COMMERCE – MASTER OF PROFESSIONAL ACCOUNTING
CRICOS 067241G

Duration 2 years (96cp)
Starting sessions Autumn/Spring
Entry Requirements A recognised Bachelor degree in any area. UOW assesses overseas qualifications in accordance with Australian Education International – National Office of Overseas Skills Recognition (AEI-NOOSR) guidelines. Direct entry to the MPA requires a degree assessed as equivalent to an Australian Bachelor as determined by AEI-NOOSR. If your qualification is not considered equivalent under these guidelines, you may be offered the MCom – MPA program.

The MPA is designed for non-accounting graduates to gain the qualifications required to practice as an accountant. Students will develop an understanding of legal, practical and theoretical, issues surrounding the practice of accounting.

The MCom – MPA double Masters program combines an MPA with a Master of Commerce, with a focus on professional practice. This combination was developed as a response to industry demand for graduates with these skills. This double degree not only provides students with fundamental commerce skills but also addresses the cultural and communication issues that will help international students implement accounting knowledge in the Australian workforce.

COURSE STRUCTURE
Compulsory subjects from the MPA component include:
- Accounting Foundations for Professionals
- Applied Financial Accounting
- Theoretical Foundations of Accounting
- Applied Management Accounting
- Management and Information Systems
- Professional Practice – Auditing and Risk Assurance
- Professional Practice – Taxation
- Economics for Professionals
- Statistics for Decision Making
- Managerial Finance
- Law of Business Organisations
- Legal Studies for Professionals

Additional subjects completed by MCom – MPA students:
- International Professional Practice (Commerce)
- Marketing Management
- Fundamentals of Management

PROFESSIONAL RECOGNITION
The MPA is accredited by CPA Australia and the Institute of Chartered Accountants in Australia (ICAA). You are advised that if you intend to apply for membership with either institution, you must also meet any additional membership requirements the institutions may have, which includes recognition of your previous qualifications.

MASTER OF FORENSIC ACCOUNTING
CRICOS 046874C

Duration 1 year (48 cp)
Starting session Autumn
Entry Requirements Recognised Bachelor degree in accountancy with an equivalent average mark of at least 60%. Applicants with a combination of other university qualifications plus relevant professional experience may also be considered.

UOW’s Master of Forensic Accounting is a globally unique course. Professionals in the corporate world need the skills to identify governance shortcomings and act upon them accordingly. Students study methods of investigation, collection and analysis of data, and systems methodology for investigation into unethical and fraudulent business activities. The program prepares students to deal with disputes involving legal and accounting issues and gives them the ability to produce reports with an appropriate legal framework. The Master of Forensic Accounting further provides independent accounting expert witness skills including preparation for court appearances and cross-examination.

The course provides an international focus for the application of forensic accounting techniques in specialised areas including banking, police, transnational fraud, financial terrorism and eCommerce.

COURSE STRUCTURE
Students complete the following compulsory subjects:
- Introductory Forensic Accounting
- Forensic and Litigation Framework
- Fraud and Failure
- Investigative Processes
- Advanced Investigative Techniques
- Independent Accounting Expert Reports
- Evidence and the Forensic Accountant
- Compliance, Assurance and Governance

PROFESSIONAL RECOGNITION
Recognised by CPA Australia and the Institute of Chartered Accountants in Australia (ICAA).
FINANCE

MASTER OF COMMERCE (FINANCE)
CRICOS 060472D

Duration 1 year (48 cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree.

COURSE STRUCTURE
In addition to the four compulsory subjects from the Master of Commerce, students take four finance subjects in the second session.

All students complete one compulsory subject:
- Managerial Finance

Plus one of the following:
- Investment Management
- Portfolio Management

Plus two electives from the following:
- Financial Statement Analysis for Business
- Banking Theory and Practice
- Entrepreneurial Finance
- Multinational Financial Management
- International Banking
- Special Topic in Finance

MASTER OF APPLIED FINANCE
CRICOS 029141D

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in finance with an equivalent average mark of at least 60%. Applicants with a combination of other university qualifications plus relevant professional experience may also be considered.

This program is designed for business graduates wishing to develop their knowledge of either banking or investing at the graduate level.

COURSE STRUCTURE
All students complete the following compulsory subjects:
- Financial Statement Analysis for Business
- Advanced Managerial Finance

Students may specialise in one of the following major areas of study:

BANKING
The banking specialisation focuses on bank management and lending.

Compulsory subjects:
- Banking and Financial Institutions Law
- Banking Theory and Practice
- International Banking
- Bank Lending and Securities

INVESTING
The investing specialisation addresses investment analysis and portfolio management.

Compulsory subjects:
- Investment Management
- Multinational Financial Management
- Portfolio Management
- Portfolio Simulation

In addition to the two compulsory subjects and the subjects listed above for each major, students choose a further two subjects to enhance their understanding of finance through the study of statistics for decision making, banking theory and practice, entrepreneurial finance, international banking, bank lending and securities, banking and financial institutions law and stochastic methods in finance.

PROFESSIONAL RECOGNITION
Recognised by the Financial Services Institute of Australasia (FINSIA).

MASTER OF COMMERCE – MASTER OF APPLIED FINANCE
CRICOS 067071J

Duration 2 years (96 cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree.

This double degree program allows students to develop generalist business skills in commerce and an expertise in applied finance.

COURSE STRUCTURE
In addition to the four compulsory subjects from the Master of Commerce, students take a managerial finance subject together with three non-finance subjects in the second session. In the final year students specialise in finance and/or banking subjects (see Master of Applied Finance subject listing above).

PROFESSIONAL RECOGNITION
The Master of Applied Finance (Banking/Investing) is recognised by the Financial Services Institute of Australasia (FINSIA).

MASTER OF FINANCIAL MATHEMATICS
CRICOS 050301F

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree with a major in mathematics or statistics, or the Master of Mathematical Studies.

See Faculty of Informatics page 67.
MASTER OF STRATEGIC HUMAN RESOURCE MANAGEMENT
CRICOS 037087E

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in commerce, business or equivalent with an average mark of at least 60%. Applicants with a combination of other university qualifications plus relevant professional experience may also be considered.

Human resource managers are focused on the achievement of effective learning organisations in a world of rapid local and global change. This course provides the skills necessary to examine structures, systems, culture and leadership; to implement organisational change; to manage employment relations; and to leverage competitive advantage in the global marketplace through contemporary HRM practice.

COURSE STRUCTURE
Students complete the following compulsory subjects:
- Human Resources Development
- Strategic Management
- Strategic Human Resource Management

Plus five electives from the following:
- Organisational Behaviour
- Management of Change
- Organisational Analysis
- Personal Learning: The Reflective Manager
- Performance Management
- Management of Occupational Health and Safety
- Job Analysis, Recruitment and Selection
- Negotiation, Advocacy and Bargaining
- Cross Cultural Management

Two electives may be replaced by a 12cp research project.

PROFESSIONAL RECOGNITION
Accredited by the Australian Human Resources Institute.

MASTER OF STRATEGIC MANAGEMENT AND MARKETING
CRICOS 053935C

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in commerce, business or equivalent with an average mark of at least 60%. Applicants with a combination of other university qualifications plus relevant professional experience may also be considered.

The economic environment of the 21st Century is driving a need for change in the practice of management in all sectors of the economy. Managers need knowledge of the principles of marketing and how to communicate with customers; conversely, marketing managers require an understanding of the principles of management. This course provides a thorough grounding in the theory and practice of both areas.

This is a cross-discipline degree designed to give students professional knowledge in both areas.

COURSE STRUCTURE
Students complete the following compulsory subjects:
- Consumer Behaviour
- Research for Marketing Decisions
- Strategic Brand Management
- Strategic Management
- Management of Change
- Organisational Analysis

Plus one of the following:
- Human Resources Development
- Strategic Human Resource Management
- Innovation and Entrepreneurship
- Small Business Management
- Cross Cultural Management

Two electives may be replaced by a 12cp research project.

PROFESSIONAL RECOGNITION
Accredited by the Australian Human Resources Institute.
INTERNATIONAL POSTGRADUATE GUIDE

MASTER OF STRATEGIC MARKETING
CRICOS 042627F

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in commerce, business or equivalent with an average mark of at least 60%. Applicants with a combination of other university qualifications plus relevant professional experience may also be considered.

In this era of globalisation and rapid technological development, marketing is increasingly important for all types of organisations: businesses, governments and NGOs all need to focus on customer value through the products and services they create. Students have the opportunity to study a wide range of advanced topics in marketing and gain both generalist and specialist marketing skills that are professionally oriented.

COURSE STRUCTURE
Students complete the following compulsory subjects:
- Strategic Brand Management
- Consumer Behaviour
- Marketing Strategy
- Research for Marketing Decisions

Plus four electives from the following:
- Internet Applications for Marketing
- Business to Business Marketing
- Social Marketing
- Managing Services and Relationship Marketing
- Marketing Communications
- Creating and Marketing New Products
- International Marketing Strategy
- Contemporary Issues in Marketing
- Tourism Marketing
- Retail Marketing Management
- Corporate Identity and Branding
- Interactive Public Relations
- Public Relations for Innovation and Change

MASTER OF COMMERCE (PUBLIC RELATIONS)
CRICOS 060472D

Duration 1 year (48 cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree.

COURSE STRUCTURE
In addition to the four compulsory subjects from the Master of Commerce, students take four public relations and marketing subjects in the second session.

All students complete three compulsory subjects:
- Corporate Identity and Branding
- Interactive Public Relations
- Public Relations for Innovation and Change

Plus one of the following:
- Social Marketing
- Consumer Marketing
- Marketing Communications
- Special Topic in Marketing A

MASTER OF COMMERCE – MASTER OF STRATEGIC HUMAN RESOURCE MANAGEMENT
CRICOS 067072G

MASTER OF COMMERCE – MASTER OF STRATEGIC MANAGEMENT AND MARKETING
CRICOS 067075E

MASTER OF COMMERCE – MASTER OF STRATEGIC MARKETING
CRICOS 067070K

Duration 2 years (96cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree.

This double degree program allows students to undertake complementary study in related commerce fields while gaining expertise in one or more fields of management and marketing.

COURSE STRUCTURE
In addition to the four compulsory subjects from the Master of Commerce, students take four subjects in the second session from outside their area of specialisation. In the final year they take specialised marketing and/or management subjects relevant to the specialisation of the second year (see one-year specialised Masters courses above for a guide to subject listing).

PROFESSIONAL RECOGNITION
The Master of Strategic Human Resource Management is accredited by the Australian Human Resources Institute.

TWO-YEAR PROGRAMS
In addition to the Master of Commerce double degrees described above, students may be eligible for admission to the Master of Business Administration (which can be completed with a further eight subjects or one year of study) if they:
- have completed one of the Masters coursework programs offered by the Faculty of Commerce; and
- have at least one year of full-time professional experience or equivalent.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Accountancy</td>
<td>Master of Business Administration</td>
</tr>
<tr>
<td>Master of Applied Finance</td>
<td></td>
</tr>
<tr>
<td>Master of Commerce</td>
<td>Master of Strategic Management and Marketing</td>
</tr>
<tr>
<td>Master of Forensic Accounting</td>
<td>Master of Strategic Marketing</td>
</tr>
</tbody>
</table>

IMPORTANT NOTE
Students seeking to qualify for visas to remain in Australia after their studies are completed on the basis of “two years of full-time study” should be aware that by being awarded the full credit exemption available, the pattern of resulting study may not meet the Australian Department of Immigration and Citizenship (DIAC) definitions of “full-time study”.

COMMERCE
The Faculty of Creative Arts will give you the opportunity to work in and across the rapidly growing sector of creative industries or pursue highly directed, individual creative careers.

In 1985, the Faculty established Australia’s inaugural Doctor of Creative Arts degree focusing on practice-led research. Since then, the vitality of our research teams has led to a distinctive contribution to artist-driven research and scholarship through Australian Research Council Discovery and Linkage grants. Australia Council fellowships and grants have supported the highest level of individual performance, publication and exhibition.

As a Creative Arts student at UOW, you will have opportunities to work and study with artists and media practitioners in a vibrant research culture with significant opportunity for interdisciplinary and cross-artform collaboration. Our coursework and research programs are tailored to meet individual needs within a professional environment.

The Faculty is particularly keen to encourage students with professional, journalistic, artistic or academic experience to extend their work and renew their thinking. We look forward to welcoming you to the Faculty of Creative Arts.

For more information on the Faculty of Creative Arts: uow.edu.au/crearts

For information on specific courses and subjects available in the Faculty go to: uow.edu.au/handbook/current/pg/crearts

RESEARCH CENTRES AND INTERESTS

INSTITUTE FOR SOCIAL TRANSFORMATION RESEARCH
uow.edu.au/arts/research/istr

The Institute is dedicated to expanding our capacity to understand and engage with our rapidly changing social, cultural and geopolitical environment. ISTR aims to build Australia’s capacity to understand and engage with globalising forces in an increasingly technological landscape.

Research conducted by ISTR is practical and project-based, involving collaboration across disciplines including politics, sociology, philosophy, cultural studies, literary studies, language and linguistics, creative arts, geography, media studies, history, anthropology, economics and law.

ISTR projects are at the cutting edge of creative and community-engaged research in the humanities, creative arts and social sciences, and have a shared focus on understanding the impact of globalisation on the pace of social and cultural transformation in our region and across the globe.

ISTR broad themes:
- Social thought and action
- Creative practice and cultural innovation
- Regional change and transformation

Associated research centres:
- Centre for Asia – Pacific Social Transformation Studies (CAPSTRANS)
- Centre for Australian Aotearoa New Zealand Studies
- Centre for Research on Men and Masculinities (CROMM)

RESEARCH PROGRAMS

DOCTOR OF CREATIVE ARTS (DCA)
CRICOS 001248A

Duration 3 years
Starting sessions Autumn/Spring

MASTER OF CREATIVE ARTS – RESEARCH
CRICOS 044409M

Duration 1–1.5 years
Starting sessions Autumn/Spring

Entry Requirements In addition to the general entry requirements listed on page 19, applicants must be able to demonstrate evidence of high artistic attainment in one of these areas:
- Creative Writing
- Graphic Design
- Media Arts
- Performance (Theatre)
- Visual Arts

The focus of study in the Doctor of Creative Arts and Master of Creative Arts – Research programs is the interaction of theory, criticism and practice from a creative perspective. There is a greater emphasis on the creative component in these programs than the other research programs listed below.
DOCTOR OF PHILOSOPHY (PHD)
CRICOS 028401G
Duration 3 years
Starting sessions Autumn/Spring

DOCTOR OF PHILOSOPHY (PHD) INTEGRATED
CRICOS 072906F
Duration 4 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF ARTS – RESEARCH
CRICOS 042539F
Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

While the Doctor of Creative Arts and the Master of Creative Arts – Research are intended for artist practitioners of substantial skill and experience, the PhD and Master of Arts – Research programs are intended for scholars or artists/scholars who have a solid academic and/or artistic background, and who wish to develop either or both fields to a Masters or doctoral level.

JOURNALISM

DOCTOR OF PHILOSOPHY (PHD)
CRICOS 028401G
Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

The PhD in Journalism comprises submission of a scholarly thesis of 80,000–100,000 words.

MASTER OF ARTS – RESEARCH (JOURNALISM)
CRICOS 042539F
Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

The Master of Arts – Research (Journalism) is a flexible degree for professional journalists who wish to acquire a tertiary qualification, research news media industry practice, new communication technology or organisational structure, and for those seeking entry into the doctoral program. Students complete 24cp of coursework and a thesis of approximately 50,000 words or an equivalent workload where submission is by a combination of thesis (25,000 words) and practical work.

For major study areas in Journalism areas please refer to the Faculty Handbook under Doctor of Philosophy uow.edu.au/handbook/current/pg/crearts

COURSEWORK DEGREES

MASTER OF CREATIVE ARTS
CRICOS 000290G
Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree with an appropriate major. Applicants should have professional experience in their chosen area of study.

The Master of Creative Arts focuses on the attainment of high-level practical skills in a chosen discipline area. Normally, two units of coursework plus a major presentation are undertaken. Each student is allocated a supervisor(s) who advises on development and documentation of a self-directed presentation. It may be possible for individuals with appropriate expertise to undertake studies involving more than one discipline area.

Available areas of study are:
- Creative Writing
- Graphic Design
- Performance (Theatre)
- Visual Arts

COURSE STRUCTURE

Students are required to complete 48 credit points of 900-level subjects consisting of two 12 credit point coursework subjects plus a 24 credit point Major Presentation.

The following is intended as a guide for the Major Presentation:

Creative Writing
Students will present either a work of short prose fiction (25,000 words); or collection of poetry (48 single-spaced pages); or a (60-minute) theatre/film/television script.

Graphic Design
As an example of content, graphic designers would submit ten graphic design works; interactive designers would produce a major interactive website or multimedia piece, or several smaller sites or multimedia works. An analytical commentary of approximately 1,500 words should accompany the Major Presentation.

Theatre
The Major Presentation is the planning and implementation of a practical presentation of the student’s work. Students will give a public presentation accompanied by a 2,500 word analysis of the process undertaken with appropriate annotation and commentary. All aspects of the presentation including content and duration must be negotiated with the supervisor(s).

Visual Arts
As an example of content, painters should submit at least eight major pieces, plus drawings and supporting material of exhibition standard. Equivalent amounts of work will be expected of students working in other areas of the visual arts. A catalogue essay of approximately 2,000 words must accompany the Major Presentation.

APPLICATION REQUIREMENTS

Application requirements for Creative Arts are listed on the inside of the back cover.
Studying in the Faculty of Education at UOW is the foundation of a fulfilling career—one that empowers students of all ages and backgrounds with the gift of education. Our student-centred approach has won international recognition and ensures you maximise your potential, whether you are embarking on your career or professionally developing it.

All of our programs are designed to suit the developmental needs of teachers, trainers and educational designers. Our programs will not only enhance your teaching skills, they will open doors to career development in schools, roles as an educator in the field, and in educational design in higher education contexts.

Our programs reflect the high level of expertise and industry links the Faculty has been able to forge through its research. Research programs are supervised by academics in touch with the latest global trends in education teaching and methodologies. Our coursework degrees offer sound theoretical foundations and extensive practical skills that address the broader aspects of education and training, including strategic planning, management, administration and policy.

The Faculty will provide you with exposure to critical issues in contemporary educational theory and practice and enable you to address these issues in your own teaching contexts.

For more information on the Faculty of Education please visit uow.edu.au/educ

For information on specific courses and subjects available in the Faculty go to: uow.edu.au/handbook/current/pg/educ

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**RESEARCH CENTRES**

**INTERDISCIPLINARY EDUCATIONAL RESEARCH INSTITUTE**

ieri.uow.edu.au

IERI is a research strength of UOW. The Institute emphasises interdisciplinary collaborations across four intersecting themes: Learning, Design and Technologies; Physical Activity and Nutrition; Language and Literacy; and Social Inclusion. These themes are incorporated across a range of settings.

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**AUSTRALIAN CENTRE FOR EDUCATIONAL LEADERSHIP**

uow.edu.au/educ/research/centres/CEL

This Centre recognises the vital link between quality educational leadership and quality schooling informed by good practice, sound research and relevant and credible professional development and training.

**CENTRE FOR CANADIAN – AUSTRALIAN STUDIES (CCAS)**

uow.edu.au/arts/ccas

CCAS has an excellent reputation for conducting Canada-related and comparative research; supporting the inclusion of Canadian content into teaching programs; attracting and supporting Canadian students in Australia; and enhancing cultural and intellectual linkages between Australia and Canada.

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**RESEARCH DEGREES**

**DOCTOR OF PHILOSOPHY (PHD)**

CRICOS 001246C

Duration 3 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

**DOCTOR OF PHILOSOPHY (PHD) INTEGRATED**

CRICOS 072795G

Duration 4 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

**DOCTOR OF EDUCATION**

CRICOS 016127J

Duration 3 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

Applicants to the Doctor of Education must also have completed a minimum of three years’ relevant professional experience.
MASTER OF EDUCATION – RESEARCH
CRICOS 042629D

Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

The research programs above are intended for those with education qualifications who wish to undertake advanced study and research in education.

The Doctor of Philosophy is completed by research and candidates are also encouraged to participate in colloquia and seminars run through the Faculty for research students.

The Doctor of Philosophy Integrated combines a traditional three-year PhD thesis with one year of coursework.

The Doctor of Education comprises both coursework (48cp) and research (96cp).


Current areas of research interest within the Faculty include: curriculum change and evaluation; early childhood education; gifted education; information technology in education; learning and the learner; literacy and TESOL; outdoor education; physical and health education; professional learning; educational leadership; and special education.

GRADUATE DIPLOMA

The Graduate Diploma is a recognised entry level teaching credential for students who wish to work in Adult Education or non-school TESOL settings.

Graduate Diploma majors are offered in:

- Adult Education
- Higher Education
- Vocational Education
- TESOL

Duration 1 year (48cp)
Starting sessions Autumn/Spring/Nov – Distance only
Delivery mode See delivery modes page 43.
Entry Requirements: Recognised Bachelor degree in any discipline.

PATHWAY TO A MASTER OF EDUCATION:

Students who complete a Graduate Diploma may qualify for entry to the Master of Education, which will generally require a further six months (1 semester) of study.

The Master of Education is a higher degree for teachers and educators wishing to pursue advanced studies in their area of interest. The program offers many areas of specialisation and students have the opportunity to choose elective subjects from any of these areas. Many subjects require the application of research and theoretical insights into actual practice; it is therefore desirable that students have some full-time workplace/teaching experience.

COURSE STRUCTURE

All Master of Education students take the following subject:
- Introduction to Research and Inquiry (6cp)

In addition, students complete at least 24cp from a single specialisation (major study) and 18cp worth of electives from any specialisation in the Master of Education.

SPECIALISATIONS (MAJOR STUDY AREAS)

ADULT EDUCATION/ HIGHER EDUCATION/ VOCATIONAL EDUCATION AND TRAINING

Designed for professionals working in this sector, this course provides workplace-based, relevant qualifications for trainers and educators through work-based projects aimed at sustaining innovation and change in their own organisations.

EARLY YEARS EDUCATION

Focusing on early childhood education (0–5 years), the course is designed for qualified teachers to expand their career opportunities or increase their skill levels to become managers of early childhood centres. It enables relevant professionals to meet workforce requirements in line with Australian Government directions in early childhood education and care reform.

LITERACY EDUCATION

Students in this major will develop an understanding of the current English curriculum and increase their knowledge of literacy and language theories. The program focuses on incorporating these into appropriate teaching practices. Graduates will then be able to make an informed decision when selecting methods of teaching. All subjects are presented online.

INTERDISCIPLINARY STUDIES IN EDUCATION

This program provides the opportunity to combine studies from a number of specialist areas and to explore issues in the foundation areas of educational psychology and sociology.
TESOL BY DISTANCE
UOW’s Teaching English to Speakers of Other Languages (TESOL) Distance programs have been running for over 25 years and offer an articulated pathway from initial postgraduate TESOL qualifications through to research degrees.

All subjects are offered online using interactive web-based resources requiring no on-campus attendance.

The subjects offer a balance of practical ideas and recent research to inform teaching practice, and subjects include assessment tasks such as case studies, portfolios of work, reflective reports/essays and website postings.

Students have the chance to explore and research areas of interest in TESOL, and in addition to textbooks, can access all required readings and resources through the UOW Library website.

For each subject a student is allocated a specialist tutor to keep in touch with by phone, email and website discussion. Teaching practicum can be completed in the student’s own workplace or at institutions negotiated with the student.

Students will identify a teaching institution for practicum, with which the Faculty of Education can then negotiate. Students can undertake their practicum with their current employer provided qualified TESOL supervision is available. If no TESOL qualified supervisor is available, students work with their UOW distance tutor who acts as a supervisor and maintains contact through email and video/audio recording.

INFORMATION & COMMUNICATION TECHNOLOGY IN EDUCATION & TRAINING
MASTER OF EDUCATION (INFORMATION TECHNOLOGY IN EDUCATION AND TRAINING)
CRICOS 000289M

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus, distance

This program provides learners with the opportunity to engage with the latest thinking and research in technology in education. Subjects in the program enable in-depth exploration of emerging and established technologies and how they can be used effectively in classrooms, online and in other educational contexts. The program covers the full life cycle of technology-based educational innovations from analysis of need, to design, creation, implementation and evaluation of a product or learning environment. This program is internationally renowned for research and teaching as well as for the innovative software its members have designed (such as StageStruck and Exploring the Nardoo).

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Program</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Education (TESOL)</td>
<td>Introduction to Research and Inquiry; together with four subjects from the list below; plus three more electives from any other Master of Education specialisation.</td>
</tr>
<tr>
<td>Graduate Diploma in TESOL</td>
<td>Methodology in Second Language Teaching, Theories of Second Language Learning; together with Field Experience in TESOL or Professional Experience in TESOL; plus four electives from the list below.</td>
</tr>
<tr>
<td>Graduate Certificate in TESOL</td>
<td>Four subjects from the list below.</td>
</tr>
</tbody>
</table>

Elective subjects:
- English Language: Learners’ Problems
- Teaching Speaking and Listening
- Second Language Literacy
- Teaching Pronunciation and Prosody
- Teaching English in International Contexts (Distance students only)
- Management, Policy and Curriculum in TESOL (Distance students only)
- Materials and Technology in Second Language Teaching
- Text and Context
- Assessing and Evaluating in TESOL Environments
- Theories of Second Language Learning*
- English in Specific Contexts
- Engaging Contexts of ESL Education

Graduate Certificate in Computer Based Learning
CRICOS 022891M

Duration 6 months (24cp)
Starting session Autumn
Delivery mode On-campus, distance

This program has been designed (such as Introduction to technology in education) to introduce students to the field of technology in education, allowing them to gain an understanding of the role of technology in learning and teaching. Students will have the opportunity to explore and research areas of interest in technology in education, and in addition to textbooks, can access all required readings and resources through the UOW Library website.

For each subject a student is allocated a specialist tutor to keep in touch with by phone, email and website discussion. The program provides learners with the opportunity to engage with the latest thinking and research in technology in education. Subjects in the program enable in-depth exploration of emerging and established technologies and how they can be used effectively in classrooms, online and in other educational contexts. The program covers the full life cycle of technology-based educational innovations from analysis of need, to design, creation, implementation and evaluation of a product or learning environment. This program is internationally renowned for research and teaching as well as for the innovative software its members have designed (such as StageStruck and Exploring the Nardoo).

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Program</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Education (Information Technology in Education and Training)</td>
<td>Introduction to Research and Inquiry, Research Project Report, Introduction to Technology in Education; together with two subjects from the list below; plus two electives from any Master of Education specialisation.</td>
</tr>
<tr>
<td>Graduate Certificate in Computer Based Learning</td>
<td>Introduction to Technology in Education; together with three electives from the list below.</td>
</tr>
</tbody>
</table>
Elective subjects:
- Emerging Issues in Educational Technology
- Instructional Strategies and Design
- Multimedia and Interface Design
- Online Learning and Teaching
- Evaluation of Technology-Based Learning

**EDUCATIONAL LEADERSHIP**

**MASTER OF EDUCATION (EDUCATIONAL LEADERSHIP)**

CRICOS 000289M

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus, distance. See table below to right.

**GRADUATE CERTIFICATE IN EDUCATIONAL LEADERSHIP**

CRICOS 029915G

Duration 6 months (24cp)
Starting sessions Autumn/Spring
Delivery mode On-campus, distance. See table below to right.

Graduate studies in Educational Leadership provide a broad understanding of educational issues and specialised study to those who aspire to be leaders in an educational setting. It is suited to those who wish to occupy a policy or evaluation role within a variety of educational enterprises.

**COURSE STRUCTURE**

<table>
<thead>
<tr>
<th>Program</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Education (Educational Leadership)</td>
<td>Introduction to Research and Inquiry, Foundations of Educational Leadership; Introduction to Educational Management; together with three electives from the list below; or three electives from any Master of Education Specialisation.</td>
</tr>
<tr>
<td>Graduate Certificate in Educational Leadership</td>
<td>Foundations of Educational Leadership; Introduction to Educational Management; plus two electives from the list below.</td>
</tr>
</tbody>
</table>

Elective subjects:
- Program Evaluation
- Leadership of Effective Change
- Leadership of Curriculum and Instruction
- Mentoring Beginning Teachers
- Leading, Developing & Managing People
- Law for Educational Leaders

**SPECIAL AND GIFTED EDUCATION**

**MASTER OF EDUCATION (SPECIAL EDUCATION)**

CRICOS 000289M

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus, Distance. See table to right.

**GRADUATE CERTIFICATE IN SPECIAL EDUCATION**

CRICOS 0298830

Duration 6 months (24cp)
Starting sessions Autumn/Spring
Delivery mode On-campus, Distance. See table to right.

**GRADUATE CERTIFICATE IN GIFTED EDUCATION**

CRICOS 036455E

Duration 6 months (24cp)
Starting sessions Autumn/Spring
Delivery mode On-campus, Distance. See table to right.

The comprehensive Masters program is specifically designed to provide professional training for participants to take up special education positions in schools. Graduates will be equipped with the breadth of skills required of fully accredited special education teachers.

Students are provided with the knowledge and skills needed to support the full range of learning needs of students with special need. They will learn to plan, implement and evaluate whole school interventions.

**COURSE STRUCTURE**

<table>
<thead>
<tr>
<th>Program</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Education (Special Education)</td>
<td>Introduction to Research and Inquiry, together with four electives from the list below; plus three electives from any Master of Education specialisation.</td>
</tr>
<tr>
<td>Graduate Certificate in Special Education</td>
<td>Four electives from the list below.</td>
</tr>
</tbody>
</table>

Elective Subjects:
- Introduction to Inclusive Education: Strategies, Policies and Legislation*
- Teaching Gifted Children*
- Giftedness in Special Populations*
- Professional Experience in Special Education*
- Learning Theories and Exceptionality
- Investigating Issues in Special Education/Inclusive Education
- Assessment and Instruction of Individuals with High Support Needs
- Models of Behaviour Management
- Approaches to Reading Difficulties: Theories and Strategies
- Language and Communication Difficulties: Theory and Practice

* Compulsory subjects for the Master of Education (Special Education).

**AWARDS AND DELIVERY MODES**

For details on delivery modes see page 79.

<table>
<thead>
<tr>
<th>Program</th>
<th>Master of Education</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Education/Vocational Education and Training</td>
<td>On-campus and distance</td>
<td>On-campus and distance</td>
<td>Distance only for international students</td>
</tr>
<tr>
<td>Early Years Education</td>
<td>*On-campus and distance</td>
<td>Distance only for international students</td>
<td>N/A</td>
</tr>
<tr>
<td>Literacy Education</td>
<td>*On-campus and distance</td>
<td>Literacy Leadership – distance only</td>
<td>N/A</td>
</tr>
<tr>
<td>Interdisciplinary Studies</td>
<td>On-campus and distance</td>
<td>On-campus only</td>
<td>N/A</td>
</tr>
<tr>
<td>TESOL</td>
<td>On-campus and distance</td>
<td>On-campus and distance</td>
<td>On-campus and distance</td>
</tr>
<tr>
<td>IT in Education and Training</td>
<td>On-campus and distance</td>
<td>Computer Based Learning – On-campus and distance</td>
<td>N/A</td>
</tr>
<tr>
<td>Special Education</td>
<td>On-campus and distance</td>
<td>On-campus and distance</td>
<td>N/A</td>
</tr>
<tr>
<td>Educational Leadership</td>
<td>On-campus and distance</td>
<td>On-campus and distance</td>
<td>N/A</td>
</tr>
<tr>
<td>Gifted Education</td>
<td>On-campus and distance</td>
<td>*On-campus</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Applicants must contact course coordinator for subject availability.
**PRIMARY AND SECONDARY TEACHING**

**GRADUATE DIPLOMA IN EDUCATION (PRIMARY)**

**CRICOS 063258G**

**Duration** 1 year (72cp)

**Starting session** Mid-January

**Delivery mode** On-campus. See table on page 43.

**Entry Requirements:** A Bachelor degree which includes a pattern of studies that meets the NSW Department of Education and Training requirements for the proposed teaching area.

**GRADUATE DIPLOMA IN EDUCATION (SECONDARY)**

**CRICOS 063259G**

**Duration** 1 year (54cp)

**Starting sessions** Mid-February

**Delivery mode** On-campus. See table on page 43.

**Entry Requirements:** A Bachelor degree which includes a pattern of studies that meets the NSW Department of Education and Training requirements for the proposed teaching area.

The Graduate Diploma in Education is a professional course in education for graduates who seek teaching qualifications in either primary (Years K–6) or secondary (Years 7–12) teaching. The structure of the program seeks to combine the practical and theoretical elements of teaching by engaging students in professional aspects, including methods work and classroom practices from the beginning of the course. It includes lectures, seminars, tutorials, individual assignments, group exercises and 55 days (eleven weeks) of full-time professional experience in schools.

Both Diplomas offer professional experience and subjects in:

- Learning and Behaviour
- Educational Sociology
- Personal Development
- Learners with Special Needs
- Quality Teaching

Diploma of Education (Primary) students will take Key Learning Area (KLA) subjects in:

- Maths KLA
- Numeracy KLA
- Science and Technology KLA
- Human Society and its Environment KLA
- Creative Arts KLA

Diploma of Education (Secondary) students will elect two secondary methods in an approved combination chosen from the following:

- Business Studies
- Computer Studies
- Creative Arts (music, or visual arts or drama)
- English
- French
- Geography
- History
- Legal Studies
- Maths
- Science
- Society and Culture

**PROFESSIONAL RECOGNITION**

The qualifications are recognised by the NSW Department of Education and Training (DET), the Catholic Education Office, independent schools and employing authorities in other states and in other countries, including Canada.

The Faculty of Education also offers a GRADUATE DIPLOMA IN EDUCATION CONVERSION (PRIMARY and SECONDARY) program of one year. These two courses are designed for those teachers who wish to move from primary teaching to secondary teaching (or vice versa), and are only available to those already accredited as primary or secondary teachers.

**PHYSICAL AND HEALTH EDUCATION**

**MASTER OF PHYSICAL AND HEALTH EDUCATION**

**CRICOS 054116G**

**Duration** 1 year (48cp)

**Starting sessions** Autumn/Spring

**Delivery mode** On-campus, distance. See table on page 43.

**Entry Requirements** A four-year undergraduate degree with a recognised teaching credential in Physical and Health Education. Special consideration may be given to students who have substantial relevant professional experience.

**GRADUATE CERTIFICATE IN PHYSICAL AND HEALTH EDUCATION**

**CRICOS 055830G**

**Duration** 3 months (24cp)

**Starting sessions** Special (January)

**Delivery mode** On-campus. See table on page 43.

**Entry Requirements:** Recognised three-year Bachelor degree, or other tertiary qualifications and/or appropriate professional experience.

The Master of Physical and Health Education is for practitioners in sport, recreation and physical and health education related fields to upgrade their qualifications and stay up-to-date with developments in their field.

The Graduate Certificate in Physical and Health Education is designed as a bridging program to update knowledge in relation to Adolescent Health and Practical Studies for domestic and international students.

**ARTICULATION**

Those who intend to enrol in the Graduate Diploma in Education may not require all four subjects in the Graduate Certificate to meet DET requirements; those students can choose not to complete the Graduate Certificate and will continue into the Graduate Diploma in the Autumn session while completing the required subjects.

**IMPORTANT NOTE**

Teacher education students must complete a Prohibited Employment Declaration before undertaking practical teaching experience as required by the Child Protection (Prohibited Employment) Act 1998.
Prosperity in the 21st Century will rely more on creative minds than on the relative abundance of natural resources. Engineers will provide innovative solutions to the energy, food, shelter, communication and environmental needs of a world population expected to double by 2030. Engineers will be challenged to interact more with people, finance and management as well as delivering technical expertise.

As a result of providing practical industrial solutions to industry over many decades, the Faculty of Engineering has developed postgraduate coursework to train professional engineers in the areas of Mechanical, Materials, Mechatronics, Civil, Mining, Environmental Engineering, and Physics. Well-designed laboratories, practical implementation of skills and an emphasis on innovation ensure graduates have the skills to meet modern engineering challenges.

The Faculty’s international research has seen long-term collaboration with partners such as Australian Nuclear Science & Technology Organisation (ANSTO), Bluescope Steel, BaoSteel Co, Fujitsu, Johns Hopkins University Medical School (US), Pacific Power, Defence Science & Technology Organisation (DSTO), CIGWELD, AGL and US Navy Academy.

This world-class research has led to the creation of a number of Centres of Excellence, which has attracted a critical mass of researchers engaged in significant, well-funded projects with superior equipment infrastructure. This expertise filters straight into the classroom and research labs, important for Master coursework, Masters research and doctoral studies.

This concentration of high quality research has ensured that the Faculty of Engineering is part of the Go8 – Group of Eight & Associates, the top research faculties in Australia.

For more information about research in Engineering at the University of Wollongong, download a brochure at uow.edu.au/eng/research/brochure

For information on specific courses and subjects available in the Faculty go to: uow.edu.au/handbook/current/pg/eng

RESEARCH CENTRES AND INSTITUTES

Below is a brief overview; for information about research projects in the Faculty, refer to uow.edu.au/eng/research

ENGINEERING MANUFACTURING

uow.edu.au/eng/research/manufacturing

Engineering Manufacturing Research (EMR) is based on several key manufacturing research groups in Metal Working, Welding and Joining and Bulk Materials Handling. These strategic areas are supported by a Power Quality and Reliability Centre and an Intelligent Mechatronics Group. Extensive use is made of computer aided design, numerical modelling and computer simulation techniques, and this is supported by experimental work in several well-equipped laboratories.

Research Groups include:

- Centre for Engineering Mechanics
- Intelligent Mechatronics
- Integral Energy Power Quality Centre
- Centre for Bulk Solids and Particulate Technologies
- Welding Engineering Research Group
- Energy Futures Network
- Advanced Structural Engineering
- Construction Materials

Advanced Structural Engineering and Construction Materials (ASEACM) researchers generate solutions to some of the most extreme situations that structures are subjected to. ASEACM is developing novel structural solutions in blast engineering, resources and offshore engineering.

Fundamental work by the ASEACM group on improving the strength of concrete structures has resulted in a number of patents for helically reinforced concrete beams. The group has also done groundbreaking work in the use of novel materials such as metallic glasses and fibre reinforced polymers to improve the performance of columns and beams under extreme loads. This work enables structures to withstand the large forces generated by earthquakes and both accidental and intentional explosions. Our laboratories are equipped for full-scale beam tests and large impact tests.
Projects include:
- Advanced analysis and design of structures
- High performance concrete
- High performance metallic alloys
- Ground-structure interaction investigating the interaction between foundations with soil under variable loading, and reinforcement systems with rock.

**ENGINEERING MATERIALS INSTITUTE**

<uow.edu.au/eng/research/emi</u>

The Engineering Materials Institute (EMI) incorporates the BlueScope Steel Metallurgy Centre (BSMC) which co-ordinates research of specific relevance to the steel industry. Materials innovations are often a central part of new product development and current research is involved in the development of advanced materials for automotive, building/construction, pipelines and even biomedical applications.

Research Groups include:
- Materials Process Engineering Group (MPEG)
- Rolling Mechanics Group
- Polymer Properties Group
- Pyrometallurgical Research Group
- Special Materials Applied Research & Technology Group
- Engineering Alloy Design Group

**INSTITUTE FOR SUPERCONDUCTING & ELECTRONIC MATERIALS**

<uow.edu.au/eng/research/ISEM</u>

The Institute for Superconducting and Electronic Materials (ISEM) has secured more than $10m in funding since 1994 from the Australian Research Council (ARC), and the private and public sectors. It has more than 20 full-time researchers, 30 postgraduate students and visiting researchers from Australia, Europe, Middle East and South-East Asia. ISEM is maintaining its outstanding research quality through collaboration with numerous worldwide renowned institutions, such as University of Cambridge (UK), Ohio State University (USA) and National Institute for Materials Science (Japan).

Research Groups include:
- Applied Superconductivity
- Energy Storage
- Spintronic and Electronic Materials
- Thin Film Technology
- Nano Structured Materials
- Terahertz Science
- Solid State Physics

**CENTRE FOR MEDICAL RADIATION PHYSICS**

<mrp.uow.edu.au</m>

The Centre for Medical Radiation Physics is internationally recognised and has attracted competitive funding from the National Health & Medical Research Council (NHMRC), the ARC and the National Space Biomedical Research Institute (NSBRI) at the National Aeronautics Space Administration Centre (NASA) as well as industry support. CMRP has close links with two major hospitals, St George Cancer Care Centre and Illawarra Cancer Care Centre, which provide opportunities for transnational research and medical physics training.

Projects centre around:
- Radiation oncology – radiotherapy physics
- Radiation detection and instrumentation
- Micro- and nano-dosimetry and hadron therapy

**SUSTAINABLE BUILDINGS RESEARCH CENTRE (SBRC)**

<sbrc.uow.edu.au</sbrc>

In addition to research, the SBRC aims to collaborate and link with industry in order to improve the energy efficiency of our new and existing building stock. The SBRC will lead the way in sustainable building research through delivery of advanced retrofit technologies, integrated component testing, skills training and research into the impacts of day-to-day behaviours of building occupants.

**DEFENCE MATERIALS TECHNOLOGY CENTRE (DMTC)**

<dmtc.com.au</dmtc>

The Defence Materials Technology Centre brings together expertise in the materials sciences from the Australian Government, industry and leading Australian universities to make a significant contribution to improving Australian Defence Force (ADF) capability across military platforms in the battlespace. It is doing so by developing world leading materials engineering capabilities to develop, integrate and sustain new materials and manufacturing technologies across existing and planned defence platforms.

The Defence Materials Technology Centre includes five research programs: air platforms; maritime platforms; armour applications; propulsion systems; and personnel survivability. The research aims are:
- Development of new materials such as high-strength steels, multi-functional composites
- Manufacturing processes such as forming, joining, surface engineering and robot automation
- Prediction and assessment of performance
- Embedded electronic systems for health monitoring and system performance

The Centre also has technology transfer programs to assist non-defence applications such as civilian aerospace, marine, power generation and general manufacturing industries.

**COOPERATIVE RESEARCH CENTRES (CRCs)**

**CRC ENERGY PIPELINES**


The Energy Pipelines CRC key focus is on current and future energy pipelines, particularly for the transport of natural gas and CO₂ for sequestration. The major themes are materials, life extension, design and construction and safety and security of supply.

**CRC FOR RAILWAY INNOVATION**


UOW is the leading partner in the efficiency of rail industry. The CRC for Railway Innovation is a joint venture of Australia’s leading rail industry companies and universities to advance research and development, and increase the efficiency of the nation’s rail industry.

The key rail partners are RailCorp (NSW), Queensland Rail and Australian Rail Track Corporation.
Selected CRC-Rail projects at the University of Wollongong:

- Ballast-track interaction and the effective use of geosynthetics
- Foundation soil properties and stabilisation
- Dynamic analysis of track and assessment of its capacity
- Onboard wheel-wear and wheel-rail-noise assessment system
- Development of novel insulated joints
- Improving rail infrastructure by introducing native vegetation and ‘green’ corridors
- Stress-strain and filtration characteristics of sub-ballast

SMART INFRASTRUCTURE FACILITY

SMART Infrastructure Facility is the National Centre for Infrastructure Solutions. SMART provides a world-class comprehensive research and teaching facility, aimed at transforming the way infrastructure-related disciplines are taught and researched. SMART research laboratories include Energy, Rail, Water, Engineering, Infrastructure Monitoring, Imaging and Simulation.

For more information on SMART, see page 78.

AUSTRALIAN INSTITUTE FOR INNOVATIVE MATERIALS (AIM)

The AIM houses two of the University of Wollongong’s flagship research groups—the Intelligent Polymer Research Institute and the Institute for Superconducting and Electronic Materials.

ENERGY FUTURES NETWORK

research.uow.edu.au/energyfutures

This Network was established to accelerate further development of our multidisciplinary energy-related research projects. Membership of the Network includes researchers from UOW faculties including Engineering, Science and Informatics and external partners.

GEOTECHNICS AND RAILWAY ENGINEERING RESEARCH CENTRE

uow.edu.au/eng/research/geotechnical

The Research Centre for Geomechanics and Railway Engineering has been built around several interdisciplinary research phases to undertake research with regard to the design and performance of major infrastructure, such as dams and transportation systems.

The key research areas are:

- Soft soil engineering and ground improvement
- Rail track engineering
- Dams and foundation engineering
- Rock engineering and mining geomechanics and mine planning
- Minimisation of geo-hazards and geo-environmental impact
- Computational and numerical geomechanics

AUSTRALIAN INSTITUTE OF MINING AND METALLURGY

(AUSIMM ILLAWARRA BRANCH)

uow.edu.au/eng/ausimm

The AusIMM Illawarra Branch places special emphasis on activities for mining engineers, geologists, metallurgy and materials engineers, environmental engineers and students studying all five disciplines at the University of Wollongong and the Illawarra TAFE.

RESEARCH PROGRAMS

DOCTOR OF PHILOSOPHY (PHD)

CRICOS 001245D

Duration 3 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

DOCTOR OF PHILOSOPHY (PHD) INTEGRATED

CRICOS 072905G

Duration 4 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

MASTER OF ENGINEERING – RESEARCH

CRICOS 042554G

Duration 1.5 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

MASTER OF SCIENCE – RESEARCH (PHYSICS)

CRICOS 042555F

Duration 1–1.5 years

Starting sessions Autumn/Spring

Entry Requirements Listed on page 19.

MASTER OF ENGINEERING

CRICOS 042657M

Duration 1 year (48cp)

Starting sessions Autumn/Spring

Entry Requirements A recognised four-year Bachelor of Engineering degree in a relevant major with an average mark of 75%.

This program prepares future researchers with in-depth training in specialist areas of engineering. It involves a combination of research dissertation and four subjects in one of the following engineering strengths:

- Civil Engineering
- Environmental Engineering
- Materials Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Mining Engineering
The engineering sector in Australia is experiencing a significant shortage of skilled professionals. With extensive private and public infrastructure projects, engineers with strong professional practice, advanced technical skills and an understanding of organisational and management needs of industry are heavily in demand.

The Faculty of Engineering has designed a series of degrees to meet the needs of industry. Graduate engineers will find a study pattern to introduce and enhance the skills required for their future career.

**MASTER OF PROFESSIONAL ENGINEERING**

The Master of Professional Engineering is a two-year program of expert skills and competencies required for the professional engineer. The program is designed to train and enhance professional practice, advance technical and specialist skills, and provide an opportunity for industrial experience or research.

The Master of Professional Engineering is made up of three stages:

- Core Professional Development
- Major – Technical Enhancement
- Professional Options

**CORE PROFESSIONAL DEVELOPMENT**

All students complete the following core subjects (42 cp):

- Innovation and Design
- Engineering Project Management
- Engineering Computing
- Strategic Management for Engineers and Technologists
- Sustainability for Engineers, Scientists and Professionals
- Professional Practice
- Industry Practice for Professional Engineering

**Professional Practice subject in the MPE**

The Professional Practice component of the MPE is designed to provide students with skills and knowledge to prepare them for the Australian engineering workplace. Engineering workplace practices, regulatory requirements and recruitment processes are all covered in this subject, as well as communication, marketing and career development, to support graduates seeking employment in the future.

Topics include:

- Intercultural communication skills
- Australian workplace culture and practices
- Communication skills for the job search and recruitment processes in the Australian context
- Engineering regulatory environment, including OHS and site visits

On successful completion of the subject, students meeting the MPE’s work placement eligibility criteria will receive help from UOW Careers Central to secure a work placement. Work placements can be up to 12 weeks in length, can be paid or unpaid and must be in an industry relevant to students’ area of study.

**MAJORS – TECHNICAL ENHANCEMENT**

Students select one major from the following list and complete six subjects (36cp) from that major as required. The subjects indicated are a guide to topics available; for further information see the Course Handbook.

**ASSET MANAGEMENT MAJORS**


**CIVIL ENGINEERING MAJORS**


**ENVIRONMENTAL ENGINEERING MAJORS**


**MATERIALS ENGINEERING MAJORS**


**MECHANICAL ENGINEERING MAJORS**


**MECHATRONIC ENGINEERING MAJORS**


**MINING ENGINEERING MAJORS**


Major in Electrical, Computer or Telecommunications are available under the Faculty of Informatics; please see page 64.
COURSE OPTIONS AND PATHWAYS

COURSEWORK DEGREES

ENTRY

Enter with Bachelor of Engineering (equivalent to Australian degree)

YEAR ONE

Master of Professional Engineering
• Professional Practice
• Advanced Technical Skills via Majors

Master of Engineering Practice
• Professional & Organisational practice for Engineers
• Advanced Technical Skills via Majors

Master of Engineering Management
• Management & Organisational practice for Engineers

YEAR TWO

Articulate into Year 2 of the Master of Professional Engineering

Master of Engineering Management

Master of Engineering Practice

MBA with advanced standing for up to 6 subjects (see page 28)

Master of Science (Logistics)

Enter the engineering workplace as professional engineer**

CAREERS

# Subject to meeting the entry requirement.
* Subject to a 75% average in coursework.
** Graduates are required to complete the accreditation process with Engineers Australia.

RESEARCH DEGREES

Bachelor of Engineering (Honours)

Master of Engineering Practice
Master of Professional Engineering

Doctor of Philosophy (3 years)

Master of Engineering Research (1.5 years)

Master of Engineering (1 year)

Career as a researcher in industry or universities
PROFESSIONAL OPTIONS
A further 18 credit points from one of the following pathways:

Pathway 1
- Internship and Professional Practice Report and/or
- Research Dissertation and/or
- Engineering Management electives

Pathway 2
- Research Dissertation and/or
- Engineering Management electives

Note: Internship, Professional Practice and Research Dissertation are subject to meeting the entry requirement.

MASTER OF ENGINEERING PRACTICE
CRICOS 020204M

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements A recognised four-year Bachelor of Engineering degree.

The Master of Engineering Practice is designed to develop the key professional skills of engineering leaders of the future. The core subjects are designed to produce graduates with strong engineering professional practice, in conjunction with the choice of specialist studies in majors outlined below.

COURSE STRUCTURE
All students complete a core of four subjects (24cp) chosen from the following:
- Innovation & Design
- Engineering Project Management
- Strategic Management for Engineering & Technologists
- Engineering Computing
- Modelling of Engineering Management Systems

Students then complete a further four subjects (24cp) from one of the following engineering majors:
- Asset Management
- Civil
- Engineering Logistics
- Environmental
- Manufacturing
- Materials
- Mechanical
- Mechatronics
- Mining

Subjects available within each major are as listed in the Master of Professional Engineering above.

Students may choose to replace two electives with a dissertation (subject to academic approval) to complement the Masters with a research project.

MASTER OF ENGINEERING MANAGEMENT
CRICOS 051350M

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements A recognised four-year Bachelor of Engineering degree, or other qualifications together with at least four years’ experience in a senior management position.

The Master of Engineering Management is aimed at engineers who see their careers progressing into management. The course provides a very strong grounding in some of the most modern management thinking applicable to engineering and manufacturing industries. Graduates of this degree will be able to work in teams with, and understand, managers from other disciplines including finance, human resources and marketing. They will be equipped to advance their careers into senior managerial positions.

COURSE STRUCTURE
Core subjects:
Students complete five 6cp subjects chosen from the list below:
- Innovation and Design
- Engineering Project Management
- Modelling of Engineering Management Systems
- Strategic Management for Engineers and Technologists
- Financial Management for Engineered Assets

Elective subjects:
Three 6cp elective subjects are chosen from a range of engineering and business subjects:
- Special Topic in Engineering Management
- Sustainability for Engineers, Scientists and Professionals
- Infrastructure Decision Support
- Systems Reliability Engineering
- Marketing Management
- Organisational Behaviour
- Management of Change
- Innovation and Entrepreneurship
- Management of Occupational Health and Safety
- Cross Cultural Management
- Managing People in Organisations
- Marketing Management
- Supply Chain Management
- Quality Management
PHYSICS AND MEDICAL RADIATION PHYSICS

MASTER OF MEDICAL RADIATION PHYSICS
CRICOS 035592D

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor of Science, or equivalent, with Physics as a major study. Applicants with other Bachelor degrees which do not include a relevant study in Physics will be considered, and will be required to complete additional subjects in Physics.

The Masters program is for graduate physicists working in public health and related areas who have a need for current knowledge and technical expertise in medical radiation physics. Students will gain an unrivalled background in medical radiation physics through program and practical work, which will prepare them for a career as a medical physicist.

MASTER OF SCIENCE (MEDICAL RADIATION PHYSICS)
CRICOS 067176M

Duration 2 years (96cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in Science.

The Master of Science (Medical Radiation Physics) is a combination of the Graduate Diploma in Science (Physics) and Master of Medical Radiation Physics, for graduates who do not qualify for direct entry to the Master of Medical Radiation Physics.

GRADUATE DIPLOMA IN SCIENCE (PHYSICS)
CRICOS 002363A

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in a relevant discipline.

This program is designed to provide:

- a Masters qualifying program for students who have inadequate preparation for direct entry into the Master of Science – Research or Master of Medical Radiation Physics
- an opportunity for students without a full major in Physics to update their knowledge of Physics
- an opportunity for science teachers who have a degree, but have taken Physics to first- or second-year level only, to improve their understanding of Physics.

Students complete 48cp of subjects chosen from those available in Physics.

TWO-YEAR PROGRAMS

The following options are available to those interested in completing two years of study.

TWO-YEAR COURSES
- Master of Professional Engineering
- Master of Science (Medical Radiation Physics)
- Progression into the Master of Professional Engineering

Students successfully completing the Master of Engineering Practice may progress into second year of the Master of Professional Engineering.

PROGRESSION INTO THE MBA

Students may be eligible for admission to the Master of Business Administration (which can be completed with a further eight subjects or one year of study) if they have completed the Masters coursework program below and have at least one year of full-time professional experience or equivalent.

<table>
<thead>
<tr>
<th>Master of Engineering Management</th>
<th>Master of Business Administration</th>
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<tbody>
<tr>
<td>Master of Engineering Practice</td>
<td>Master of Engineering Practice</td>
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</table>

1+1 PROGRAMS

<table>
<thead>
<tr>
<th>Graduate Diploma in Science (Physics)</th>
<th>Master of Medical Radiation Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Engineering Management</td>
<td>Master of Science (Logistics)</td>
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<tr>
<td></td>
<td>Master of Engineering Practice</td>
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<tr>
<td>Master of Engineering Practice</td>
<td>Master of Engineering Management</td>
</tr>
</tbody>
</table>
The Faculty of Health and Behavioural Sciences is committed to providing challenging and relevant learning experiences to help you prepare for your chosen career. We provide opportunities for postgraduate research students to develop their ability to function as independent researchers and facilitate self-directed study skills.

Our Faculty offers a range of postgraduate coursework programs; many accredited by professional bodies, such as the Australian Psychological Society (APS), the Australian Association for Exercise and Sports Science (AAESS), the Australian Institute of Occupational Hygienists (AIOH) and the Dietitians Association of Australia (DAA).

We maintain strong links with industry bodies such as the Illawarra Shoalhaven Local Health District, WorkCover and the Australian Health Management Group to ensure our programs are relevant to current and projected industry trends.

The Faculty of Health and Behavioural Sciences is a dynamic faculty focused on the fields of health and medical science, nutrition and dietetics, exercise science, occupational health and safety, psychology, nursing and public health.

We are committed to producing graduates recognised for the excellence of their skills base, quality of work and flexible approach. You will have numerous opportunities to develop research skills, and potentially develop your own research programs.

For additional information on the Faculty, please go to uow.edu.au/health

For information on specific courses and subjects in the Faculty of Health and Behavioural Sciences, go to uow.edu.au/handbook/current/pg/hbs

ILLAWARRA HEALTH AND MEDICAL RESEARCH INSTITUTE (IHMRI)

IHMRI is a joint venture between UOW and the Illawarra Shoalhaven Local Health District. Its goal is to be the focal point of health and medical research in the Illawarra region.

The Institute is situated on UOW main campus and includes PC2 modular laboratories, a specialist PC3 vaccine testing laboratory and specialist areas for molecular genetics, low-level radioactive testing, confocal and beta-imaging microscopy.

The Institute also houses a clinical research and trials area that incorporates exercise and aerobic testing areas, nine consulting rooms, blood collection laboratory, food preparation facilities, dialysis/treatment chairs and a DEXA body composition facility.

IHMRI’s research program encompasses the following themes:

- Cancer Continuum
- Healthy Ageing
- Infectious Diseases
- Metabolic Conditions
- Neuroscience and Mental Health
- Primary Care and Rural Health
- Human Genetics
- Nutrition
- Population Health

For more information, see ihmri.uow.edu.au

RESEARCH CENTRES AND INSTITUTES

CENTRE FOR HEALTH INITIATIVES (CHI)

uow.edu.au/health/chi

CHI undertakes a range of research initiatives across three key streams:

- Social Marketing & Community Management
- Critical Marketing & Media Analysis
- Health Education, Leadership & Practice Development

Focus Areas include:

- Alcohol
- Aged & Dementia Care
- Cancer
- Health Professional Education
- Workplace Health, Safety & Productivity

CENTRE FOR HUMAN AND APPLIED PHYSIOLOGY

uow.edu.au/health/chp

This Centre investigates a wide range of topics in physiology including cardiovascular, metabolic, muscle, pulmonary and environmental. The research is often focused on topics of interest to applied and occupational physiologists who are active in these research areas. Three research laboratories are associated with this Centre, under the Human Performance Laboratories.
HEARING COOPERATIVE RESEARCH CENTRE
hearingcrc.org
This Centre is focused on more effective prevention and improved remediation of hearing loss. Through research and its utilisation, the Hearing CRC aims to reduce the impact of hearing loss by:
- maximising lifelong hearing retention
- reducing loss of productivity due to hearing loss
- increasing uptake and use of hearing technology
- providing postgraduate education and professional training.

CENTRE FOR TRANSLATIONAL NEUROSCIENCE (CTN)
uow.edu.au/health/healthsciences/ctn
The vision of the CTN is to find the means to prevent and treat schizophrenia, obesity and obesity-related colon cancer, by studying the pathological mechanisms of the diseases using human brain tissue, animal models and cell culture. New findings are then translated into novel pharmacological and dietary interventions for human diseases.

FOOD AND HEALTH STRATEGIC RESEARCH INITIATIVE
uow.edu.au/health/foodhealth
The Strategic Research Initiative (SRI), ‘Food and Health’ brings together the clinical research capacity of the Smart Food Centre (SFC) with new capacities in Public Health Nutrition (PHN). It also links the Nutrition and Population Health streams of the Illawarra Health and Medical Research Institute (IHMRI).

OTHER RESEARCH GROUPINGS

THE HUMAN PERFORMANCE LABORATORIES (AUSTRALIA)
uow.edu.au/health/hpl
The Human Performance Laboratories (Australia) research group addresses application of scientific knowledge and principles to real-world problems through three laboratories:
- Cardiovascular Physiology and Nutrition Laboratory
- Exercise and Applied Cardiovascular Physiology Laboratory
- Thermal Physiology Laboratory

BIOMECHANICS RESEARCH LABORATORY (BRL)
uow.edu.au/health/brl
Research within the BRL is primarily focused on the biomechanics of injury prevention with a specific interest in the following main areas of focused research excellence, including:
- Landing Mechanics & Injury Prevention
- Foot Structure & Function & Footwear Design
- Biomechanics of Breast Health

METABOLIC RESEARCH CENTRE (MRC)
uow.edu.au/health/healthsciences/mrc
The Metabolic Research Centre encompasses researchers interested in all aspects of metabolism.

NSW/ACT DEMENTIA TRAINING STUDY CENTRE (DTSC)
dementia.uow.edu.au
This Centre is focused on ensuring that health and aged care professionals have access to the knowledge required for delivering the best practice care.

BRAIN & BEHAVIOUR RESEARCH INSTITUTE (BBRI)
uow.edu.au/health/psych/research/bbri
The main research focus of BBRI is the understanding of cognitive and perceptual processes, through studies of their psychophysiological bases in humans.

ILLAWARRA INSTITUTE FOR MENTAL HEALTH (IIMH)
uow.edu.au/health/iimh
The Illawarra Institute for Mental Health (IIMH) provides a centre for researchers and teachers with an interest in mental health and drug and alcohol related research.

For other research groups please refer to the Faculty research website: uow.edu.au/health

RESEARCH DEGREES

DOCTOR OF PUBLIC HEALTH
CRICOS 012105C
Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Students should meet the entry requirements listed on page 19, and have the equivalent of one year of full-time relevant postgraduate study. Students should also have two or more years of professional experience. Applicants should submit a record of professional experience and the names of two appropriate referees.

The Doctor of Public Health is a professional degree granted on successful completion of an approved program of 48cp of coursework, in addition to an independent and original investigation of a significant problem in public health and the presentation of the research as an acceptable thesis.

DOCTOR OF PHILOSOPHY (PHD)
CRICOS 012104D
Duration 3 years
Starting sessions Autumn/Spring (Psychology not available in Spring)
Entry Requirements Listed on page 19.
- Health Sciences
- Nursing
- Psychology

Please refer to the Faculty Handbook for study areas under the Centre for Health Initiatives uow.edu.au/handbook/current/pg/hbs

DOCTOR OF PHILOSOPHY (PHD) INTEGRATED
CRICOS 013059K
Duration 4 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

DOCTOR OF PHILOSOPHY (CLINICAL PSYCHOLOGY)
CRICOS 003002G
Duration 4 years
Starting session Autumn
Entry Requirements An equivalent superior Honours degree in Psychology of at least four years’ duration of Class II, Division 1 standard or higher. International applicants must have their qualifications assessed by the Australian Psychological Society (APS) for equivalence and provide this evidence in their application. Short-listed candidates are also subject to a selection interview.
(see: www.psychology.org.au/membership/qualifications)
The coursework and practical experience provide students with a comprehensive understanding of the principles governing psychological assessment and therapy, and the clinical skills required to treat a wide variety of psychological disorders in children, adolescents and adults.

PROFESSIONAL RECOGNITION
This program is accredited by the NSW Registration Board for registration as a psychologist, by the Australian Psychology Accreditation Council (APAC) for registration as a psychologist and as a qualifying degree for endorsement in Clinical Psychology. The program is also approved by the APS College of Clinical Psychologists for associate membership.

DOCTOR OF PSYCHOLOGY (CLINICAL)
CRICOS 027469G

Duration 3.5 years (168cp)
Starting session Autumn
Entry Requirements Recognised Honours degree in Psychology of four years’ duration at Class II, Division 1 standard (Doctorates) or Class II, Division 2 standard (Masters).

This course equips students with advanced skills and knowledge relevant to the practice of clinical psychology. The course also includes advanced training in the design, execution and writing up of a research project that focuses on an issue relevant to clinical psychology theory or practice. The research component of the program is principally focused on applied clinical psychology research leading to a doctoral level research thesis.

MASTER OF SCIENCE – RESEARCH (PSYCHOLOGY)
CRICOS 044405D

Duration 1.5 years
Starting session Autumn
Entry Requirements A four-year Bachelor degree in Psychology (or equivalent) that includes a full year of research.

MASTER OF MIDWIFERY – RESEARCH
CRICOS 042834G

Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF NURSING – RESEARCH
CRICOS 042833G

Duration 1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

- Biomedical Science
- Psychology
- Public Health

COURSEWORK PROGRAMS
ADDITIONAL ENTRY REQUIREMENT
The NSW Health Department requires all students undertaking clinical placements to undergo a criminal record clearance prior to employment or placement in the NSW Health System.

This clearance will be conducted by the NSW Police Service and will be coordinated by NSW Health following enrolment.

International students are required to provide an official criminal record clearance, in English, from their home country prior to their arrival in Australia.

Once enrolled, nursing students will be required to determine their immunity status for a number of infectious diseases. Students may need to undertake a course of vaccinations.

SCHOOL OF HEALTH SCIENCES
uow.edu.au/health/healthsciences

MASTER OF CLINICAL EXERCISE PHYSIOLOGY
CRICOS 068540K

Duration 1 year (48cp)
Starting session Autumn
Entry Requirements A Bachelor degree in Exercise Science of at least three years’ duration and a minimum of 140 hours of supervised clinical placement with healthy populations.

The Master of Clinical Exercise Physiology aims to produce professional exercise scientists who can utilise exercise to prevent and rehabilitate disease and injury in the broader community.

PROFESSIONAL RECOGNITION
Upon graduation from the Master of Clinical Exercise Physiology, students will be eligible to individually apply for accreditation as an exercise physiologist with Exercise and Sports Science Australia (ESSA).

MASTER OF SCIENCE (NUTRITION AND DIETETICS)
CRICOS 007054G

Duration 2 years (96cp)
Starting session Autumn
Entry Requirements A recognised Bachelor degree incorporating one full year of biochemistry and human physiology. Applicants must also provide two referee reports, a Supplementary Information form and a personal statement.

The Master of Science (Nutrition and Dietetics) combines coursework and a major project with practical placements. It aims to develop the knowledge and skills required by nutritionists/dieticians working in a variety of community settings, public health, hospitals and other tertiary health care facilities. It also provides the opportunity to undertake a supervised research project on a subject related to nutrition and dietetics.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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</thead>
<tbody>
<tr>
<td>Nutrients and Metabolism</td>
<td>Dietetics 2</td>
</tr>
<tr>
<td>Research in Human Nutrition</td>
<td>Communication in Health Care Practice</td>
</tr>
<tr>
<td>Community and Public Health Nutrition</td>
<td>Food Service and Dietetics Management</td>
</tr>
<tr>
<td>Dietetics 1</td>
<td>Practical Studies in Nutrition and Dietetics</td>
</tr>
<tr>
<td>Research Project in Nutrition and Dietetics</td>
<td></td>
</tr>
</tbody>
</table>
PROFESSIONAL RECOGNITION
Graduates holding the Master of Science (Nutrition & Dietetics) are eligible for membership of the Dietitians Association of Australia (DAA) and may be employed as nutritionists/dietitians in Australia and certain overseas countries.

GRADUATE DIPLOMA IN SCIENCE (BIOMEDICAL SCIENCE) CRICOS 002508M
Duration 1 year (48cp)
Starting session Autumn
Entry Requirements A recognised Bachelor degree with an emphasis in the biomedical sciences.

Students choose a program of subjects designed to meet their particular requirements in one of the following discipline areas: anatomy, physiology, biochemistry, exercise physiology and nutrition. The course is a pathway to a specialised degree in one of these areas.

MASTER OF SCIENCE (OCCUPATIONAL HEALTH AND SAFETY) CRICOS 069727B
Duration 1 year (52cp)
Starting session 2 January 2013
Delivery mode Flexible (block delivery)
Entry Requirements A recognised three-year Bachelor degree with the equivalent of one year of science subjects.

This program provides a comprehensive and professional program of study focusing on practical aspects. It provides students with comprehensive knowledge in OH&S and also offers additional advanced-level elective subjects designed to meet more extensive, specialised career aspirations such as occupational and environmental health and safety.

Subjects are taught in intensive delivery mode over five-day periods, followed by assignments and a final examination.

COURSE STRUCTURE
Compulsory subjects:
- OH&S Law
- Advanced Workplace Injury Management
- Epidemiology & Toxicology for OHS Practitioners
- OH&S Risk Management
- Principles of Occupational Hygiene
- Behavioural Change: Human Factors in OH&S
- Ergonomics Essentials

Plus one elective from the following:
- Asbestos and Other Fibres
- Occupational Health & Safety Project
- Thermal Environment
- Noise – Measurement and Its Effects

MASTER OF SCIENCE (OCCUPATIONAL HYGIENE PRACTICE) CRICOS 073067K
Duration 1 year (48cp)
Starting session 2 January 2013
Delivery mode Flexible (block delivery)
Entry Requirements A recognised three-year Bachelor degree with the equivalent of one year of science subjects.

This program is designed to develop graduates with both academic and practical skills in the area of Occupational Hygiene.

Subjects are taught in intensive delivery mode over five-day periods, followed by assignments and a final examination.

COURSE STRUCTURE
Compulsory subjects:
- Measurement of Hazardous Substances
- Epidemiology & Toxicology for OHS Practitioners
- Occupational Hygiene Project
- Control of Hazardous Substances
- Noise – Measurement & Its Effects

Plus three elective subjects from the following:
- Thermal Environment
- Asbestos & Other Fibres
- Ergonomics Essentials
- Occupational Hygiene in the Oil & Gas Industry
- Occupational Hygiene in the Mining Industry

MASTER OF PUBLIC HEALTH (MPH) CRICOS 009245F
Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On campus – with Public Health Nutrition and Occupational Health and Safety streams (see below) offered in block delivery mode.
Entry Requirements A recognised Bachelor degree with an equivalent average mark of 60% in a health-related discipline. Other appropriate professional qualifications and/or work experience may also be considered.

The program provides knowledge and understanding of the efforts made by society to protect, promote and restore people’s health. The goals of Public Health include the promotion and improvement of health—defined as a state of wellbeing, not just the absence of disease—as well as the prevention of disease, premature death, and disease-produced discomfort and disability in the population.

COURSE STRUCTURE
The course has a modular structure that will allow students to gain an understanding of core Public Health issues, and then elect a field of interest to complete their studies.

Compulsory subjects:
- Public Health Communication and Data Skills
- Statistics in Health Research
- Epidemiology
- Social Determinants of Health

Students then elect a stream, comprised of a further four subjects, to complete their degree:
HEALTH PROMOTION
Health promotion, public health policy, health promotion competencies, health research methodology.

PUBLIC HEALTH NUTRITION
Public health nutrition, food and nutrition monitoring and surveillance, nutrition promotion, food and nutrition policy.

OCCUPATIONAL HEALTH & SAFETY
Occupational health and safety law, OHS risk management, advanced workplace injury management, principles of occupational hygiene.

SOCIAL MARKETING FOR HEALTH
Social marketing for health, critical marketing and media analysis, advanced studies in behaviour change, social marketing practice.

High-achieving students may apply to transfer to the Master of Public Health Advanced, which requires a further one semester of study (total: 1.5 years) and completion of a major project.

Students successfully completing the MPH and wishing to complete a second year of postgraduate coursework study will be eligible for progression into either the Master of Health Leadership & Management or the Master of Health Informatics.

MASTER OF HEALTH LEADERSHIP & MANAGEMENT
CRICOS 059753E

Duration
1 year (48cp)

Starting sessions
Autumn/Spring

Entry Requirements
A relevant Bachelor degree and two years' full-time health-related work experience. Applicants with other combinations of acceptable qualifications and professional experience may be considered for entry initially to one of the component Graduate Certificates.

This flexible course is designed for practising health professionals seeking to develop their leadership and management skills and allows students to tailor a Masters program to suit their professional development requirements.

COURSE STRUCTURE
Students select subjects from at least one of the following three streams, together with a second from the following three streams OR subjects in the Graduate Certificate in Business Administration, Graduate Certificate in Logistics, or Graduate Certificate in Management (see Sydney Business School section of this guide).

Health Leadership and Management
- Effective Management in Health
- Effective Leadership in Health
- Coaching Skills for Healthcare Leaders
- Reflective Practice 1

Health Practice Development & Facilitation
- Innovation and Change: Tools for Practice Development
- Reflective Practice 1
- Facilitation and Education Skills for Practice Development

Plus one of the following:
- Critical Appraisal
- Essential Skills for Health Researchers
- Reflective Practice 2

Health Research
- Essential Skills for Health Researchers
- Critical Appraisal
- Reflective Practice 1
- Applied Analysis in Health Research

ARTICULATION TO THE MBA
Students may be eligible for admission to the Master of Business Administration (which can be completed with a further eight subjects or one year of study) if they have completed the Master of Health Leadership and Management and have at least one year of full-time professional experience or equivalent.

MASTER OF HEALTH INFORMATICS
See Faculty of Informatics: page 63.

SCHOOL OF NURSING, MIDWIFERY & INDIGENOUS HEALTH
uow.edu.au/health/nursing

Nurses who have been educated and are registered outside of Australia, and who are seeking studies that lead to registration as a nurse in Australia, should apply to the Bachelor of Nursing for Overseas Qualified Nurses. This two-year full-time course is designed to comprehensively prepare graduates for professional nursing practice, and graduates are eligible to apply to register with the Australian Health Practitioner Regulation Agency (AHPRA) through the Nursing and Midwifery Board of Australia (NMBA).

MASTER OF NURSING
CRICOS 009251G

Duration
1 year (48cp)

Starting sessions
Autumn/Spring

Entry Requirements
Recognised Bachelor degree in Nursing.

The Master of Nursing is designed to prepare nurses for leadership roles in nursing and the health care system. The program consists of either coursework or a combination of coursework and a major project. Students will take subjects in reflective practice, legal and professional issues in nursing and research methodology, and choose further electives or a major project.

MASTER OF NURSING (MENTAL HEALTH)
CRICOS 073211G

Duration
1 year (48cp)

Starting sessions
Autumn/Spring

Delivery Mode
Flexible

Entry Requirements
A Bachelor degree in Nursing of at least three years’ duration from a recognised tertiary institution and qualification to practise as a Registered Nurse.

The Master of Nursing (Mental Health) is designed for both practitioners commencing in the specialty of mental health nursing and experienced mental health and drug and alcohol nurses. Students will cover a range of subjects in the areas of clinical principles and practice, psychosocial rehabilitation, assessment and diagnosis in mental health, drug and alcohol practice and health management.

MASTER OF SCIENCE (DEMENTIA CARE)
CRICOS 073080F

Duration
1 year (48 cp)

Starting session
Autumn

Entry Requirements:
three-year Bachelor degree from a recognised tertiary institution in a health-related discipline, or equivalent.

This course is a clinically based program that prepares practitioners for advanced professional practice in the specialist field of dementia. Graduates will have the ability to critically review the health and wellbeing of people with dementia; review social policy and its impact on the provision of dementia care; and develop advocacy skills in sectors relevant to dementia care.
BECOMING A REGISTERED PSYCHOLOGIST IN AUSTRALIA

To practise as a psychologist in Australia, graduates must apply for registration with the Psychology Board of Australia. Registration requires completion of four years of Australian Psychology Accreditation Council (APAC)-accredited undergraduate study, followed by either an APAC-accredited postgraduate program, or two years of supervised practice as a psychologist that has been endorsed by the relevant Psychologists’ Registration Board.

To complete the four years, graduates of the three-year UOW Bachelor of Science (Psychology) or the UOW Bachelor of Arts (Psychology) must complete an Honours year or a UOW Postgraduate Diploma in Psychology to meet the academic requirement for Associate Membership of the Australian Psychological Society. Alternatively, students take the four-year Bachelor of Psychology.

Students can then apply to proceed to the two-year Master of Psychology (Clinical) course if they wish to pursue a career as a clinical psychologist.

MASTER OF SCIENCE (PSYCHOLOGY)

Entry Requirements: four-year Honours degree in Psychology of at least Class II Division 1, or equivalent, from a recognised university.

Note: Applicants must have their qualifications assessed by the Australian Psychological Society (APS) for equivalence and provide this evidence in their application (see: www.psychology.org.au/membership/qualifications).

Selection for entry is based on academic record, two referees’ reports, relevant practical experience and a personal statement. Short-listed candidates are also subject to a selection interview.

This program provides a comprehensive understanding of the principles governing psychological assessment and therapy. It equips students with the clinical knowledge and skills required to assess and treat a wide variety of psychological disorders in children, adolescents and adults. Teaching methods include face to face classes, weekend workshops and supervised clinical practicum at the University Clinic and at external placements.

PROFESSIONAL ACCREDITATION

The Master of Psychology (Clinical) is a fully accredited professional 5th and 6th year of study for the purpose of full registration as a psychologist with the Australian Psychology Accreditation Council (APAC).

Completion of the course also meets the training requirements for associate membership of the College of Clinical Psychologists of the Australian Psychological Society.

ARTICULATION WITH OTHER UOW COURSES

High performing students may apply to transfer from the Master of Psychology (Clinical) to the Doctor of Psychology (Clinical) or Doctor of Philosophy (Clinical Psychology) after completion of one year of study.

MASTER OF SCIENCE (PSYCHOLOGY) (CLINICAL)

Entry Requirements: four-year Honours degree in Psychology of at least Class II Division 1, or equivalent, from a recognised university.

Note: Applicants must have their qualifications assessed by the Australian Psychological Society (APS) for equivalence and provide this evidence in their application (see: www.psychology.org.au/membership/qualifications).

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High performing students may apply to transfer from the Master of Psychology (Clinical) to the Doctor of Psychology (Clinical) or Doctor of Philosophy (Clinical Psychology) after completion of one year of study.

MASTER OF SCIENCE (PSYCHOLOGY) (CLINICAL)

Entry Requirements: four-year Honours degree in Psychology of at least Class II Division 1, or equivalent, from a recognised university.

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ARTICULATION WITH OTHER UOW COURSES

High performing students may apply to transfer from the Master of Psychology (Clinical) to the Doctor of Psychology (Clinical) or Doctor of Philosophy (Clinical Psychology) after completion of one year of study.

MASTER OF SCIENCE (PSYCHOLOGY) (CLINICAL)

Entry Requirements: four-year Honours degree in Psychology of at least Class II Division 1, or equivalent, from a recognised university.

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ARTICULATION WITH OTHER UOW COURSES

High performing students may apply to transfer from the Master of Psychology (Clinical) to the Doctor of Psychology (Clinical) or Doctor of Philosophy (Clinical Psychology) after completion of one year of study.

MASTER OF SCIENCE (PSYCHOLOGY) (CLINICAL)

Entry Requirements: four-year Honours degree in Psychology of at least Class II Division 1, or equivalent, from a recognised university.

Note: Applicants must have their qualifications assessed by the Australian Psychological Society (APS) for equivalence and provide this evidence in their application (see: www.psychology.org.au/membership/qualifications).

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High performing students may apply to transfer from the Master of Psychology (Clinical) to the Doctor of Psychology (Clinical) or Doctor of Philosophy (Clinical Psychology) after completion of one year of study.

MASTER OF SCIENCE (PSYCHOLOGY) (CLINICAL)

Entry Requirements: four-year Honours degree in Psychology of at least Class II Division 1, or equivalent, from a recognised university.

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The Master of Psychology (Clinical) is a fully accredited professional 5th and 6th year of study for the purpose of full registration as a psychologist with the Australian Psychology Accreditation Council (APAC).

Completion of the course also meets the training requirements for associate membership of the College of Clinical Psychologists of the Australian Psychological Society.

ARTICULATION WITH OTHER UOW COURSES

High performing students may apply to transfer from the Master of Psychology (Clinical) to the Doctor of Psychology (Clinical) or Doctor of Philosophy (Clinical Psychology) after completion of one year of study.
Information and communication technology is a pervasive discipline that encompasses information systems and technology, computer science and software engineering, electrical, computer and telecommunications engineering, and mathematics and applied statistics.

The Faculty of Informatics at UOW comprises four schools:
- School of Information Systems and Technology (SISAT)
- School of Computer Science and Software Engineering (SCSSE)
- School of Electrical, Computer and Telecommunications Engineering (SECTE)
- School of Mathematics and Applied Statistics (SMAS)

And four leading research centres:
- The Information and Communication Technology Research Institute (ICTR)
- The Centre for Statistical and Survey Methodology (CSSM)
- Institute of Mathematics and its Applications
- The Engineering Manufacturing Strength, which brings the Integral Energy Power Quality Research Centre and Centre for Intelligent Mechatronics together for the advancement of manufacturing technology across a range of industries.

The Faculty has a strong history of celebrated research, innovation and entrepreneurship, beginning with the first port of the UNIX operating system outside of the Bell Laboratory. The Faculty, through the ICT Research Institute, has spun off a number of technology start-up companies—Spatial Voice, Enikos, Imprezzeo are examples. Staff hold a number of patents protecting technologies developed in the Faculty. A number of local technology companies have been founded by UOW Informatics graduates—Internetrix, EvansCorp and InfoCom, for example.

The Faculty’s postgraduate research program focuses in key ICT areas including image processing, speech and audio processing, machine learning, pattern recognition, wireless networks, power system harmonics, renewable energy, pure mathematics, applied statistics, financial mathematics, community informatics, health informatics and social networks. The Faculty is one of the largest sites of ICT research in the southern hemisphere, and has strong industrial links with major international companies and collaborative research and development projects with partners in South East Asia, Europe and USA along with research partnerships in China, UK, USA, Thailand, Singapore, South Korea and India. The Faculty’s work has created strong collaborative ties with the Simulation and Modelling, Research and Teaching (SMART) facility and the Illawarra Health and Medical and Research Institute (IHMRI) innovative multidisciplinary initiatives at the University of Wollongong.

The Faculty supports strong research links with over 30 leading international institutions, including Huazhong University of Science and Technology (China), Tsinghua University, Shanghai Jiaotong University, Royal Holloway (University of London), Manchester University, University of Florida, Columbia, Institute for Infocom Research (Singapore) and Tokyo Institute of Technology. The Faculty also has offshore collaborations with key institutions in the region including Singapore Institute of Management (SIM) and Zhengzhou University in Henan Province, China. Active Faculty Alumni networks exist in Singapore, Hong Kong, Malaysia and Dubai.

The Faculty of Informatics has a dedicated International Office that is responsible for international ICT students, acting as an advocacy point, which includes looking after academic concerns, enrolment and orientation, personal counselling and assistance with letters to professional accreditation bodies.

For more information on the Faculty, please visit
uow.edu.au/informatics

For information on specific courses and subjects in the Faculty of Informatics, please visit:

uow.edu.au/handbook/current/pg/informatics

RESEARCH STRENGTHS

SCHOOL OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SECURITY


SOFTWARE ENGINEERING


MULTIMEDIA INFORMATION PROCESSING


INTELLIGENT SYSTEMS

Robotics, Machine Learning, Distributed Systems, Agent and Multi-agent Techniques, Data Mining and Modelling, Agent Programming, Constraint Programming, and Knowledge Representation and Reasoning.
SCHOOL OF ELECRICAL, COMPUTER AND TELECOMMUNICATIONS ENGINEERING

SENSING AND MEASUREMENT

System automation and protection.

For distribution systems; distributed generation; distribution to PQ disturbances; voltage sag characteristics and limits.

Methods; photovoltaic inverter systems and distribution management in distribution and transmission systems; methodologies; harmonics, flicker and voltage unbalance.

Power quality surveying; data analysis and reporting the internet, medical image processing for diagnosis, content using wireless protocols, tele-presence and tele-operation over multi objective intelligent control for blimp, position location manipulation in medicine, performing arts and manufacturing; multi objective intelligent control for blimp, position location using wireless protocols, tele-presence and tele-operation over the internet, medical image processing for diagnosis, content based retrieval and image coding.

POWER ENGINEERING

Power quality surveying; data analysis and reporting methodologies; harmonics, flicker and voltage unbalance management in distribution and transmission systems; distribution system reliability improvement through novel methods; photovoltaic inverter systems and distribution system; power quality data mining; equipment immunity to PQ disturbances; voltage sag characteristics and limits for distribution systems; distributed generation; distribution system automation and protection.

SCHOOL OF INFORMATION SYSTEMS AND TECHNOLOGY

Interdisciplinary service research that includes supply chain management, operations management, customer relationship management, marketing, information technology, RFID, location-based services, e-Business and e-Commerce applications; information management, retrieval and visualisation; systems and technology; collaborative systems; e-Learning; semantic web and cloud computing; agent-based systems and service oriented computing; IS methodologies and implementation; health informatics; human computer interaction; social informatics and social network analysis; social media; electronic health records; database systems; IT strategy; disaster response management; simulation and scheduling; aged care training and computer support; e-government and e-democracy; e-governance or IT governance; privacy; surveillance and cybercrime; and workflow management.

SCHOOL OF MATHEMATICS AND APPLIED STATISTICS

PURE MATHEMATICS

Calculus of variations, control theory, differential equations, distance geometry, ergodic theory, functional analysis, geometric measure theory, geometric probability, harmonic analysis, non-linear partial operator algebra, representation theory, randomness and chaos, topological groups, topology and digital imaging.

ENGINEERING AND APPLIED MATHEMATICS

Nonlinear waves; microwave heating; combustion theory; bioreactor engineering; chemical reaction engineering; computational environmental fluid dynamics; applied nonlinear dynamical systems; Lie group analysis of nonlinear differential equations; computational mathematics, mathematical theory of nanostructures, mathematical modelling of electrorheological fluids; mechanics of carbon, silica and boron nitride nanotubes; modelling nanostructures; for gigahertz nano-oscillators; applications of nanoparticles in biology and medicine; transport in nanopores and crystalline solids; modelling protein and other polymer chain structures.

STATISTICAL AND SURVEY METHODOLOGY

Statistical design, including survey design and experimental design; analysis of data from complex populations, including survey, longitudinal, spatial and aggregated data; data quality and survey methods; statistical modelling and analysis, including semi-parametric methods, generalised linear mixed models, estimating equations, Monte Carlo methods, computational statistics and time series analysis.

MATHEMATICAL FINANCE

Long run equilibrium dynamics in financial asset pricing series; Statistical arbitrage modelling in derivatives markets; hedge fund dynamics; neural networks in financial forecasting; pricing of American options and moving boundary value problems; computational finance; convertible bonds and Asian options; partial differential equations governing prices of financial derivatives such as bounds and options; stochastic differential equations for underlying variables such as interest rates and stocks; behavioural finance; empirical data analysis; inference in stochastic processes; time series analysis; co-integration analysis and applications; long memory processes; GARCH models and inference on heteroscedastic models; quasi-likelihood method and its applications; sample survey analysis; and inferences on stochastic processes.
MATHEMATICS AND STATISTICS EDUCATION
Online learning of mathematics and statistics, embedding online learning support, head start programs, video resources in learning, development of problem solving approaches for learning, and learning designs.

RESEARCH CENTRES AND INSTITUTES
The Faculty of Informatics participates in four of the University’s Research Strengths:

The Information and Communication Technology Research Institute (ICTR), one of the longest-running and largest ICT research centres in Australia, which primarily undertakes research in the areas of communication, security, multimedia and education.

COMMUNICATION AND WIRELESS TECHNOLOGY
Internet applications and architecture; Multimedia streaming and communication; Distributed virtual environments; Peer-to-peer and overlay networks; Sensor networks; Topology and performance optimisation; Application-tailored ad hoc networks; Ultra-wideband (UWB) and 4G mobile communications; Wireless sensor networks; Multiple-input-multiple-output (MIMO) systems; Space-time coding; Radio propagation; and Smart antennas.

COMPUTER AND INFORMATION SECURITY

MULTIMEDIA AND INFORMATION PROCESSING
Smart vision sensors; Methods and tools for coding, search and retrieval, and delivery of complex multimedia objects; Fundamental algorithm development in speech and audio coding; Spatial audio; Machine learning; Pattern recognition; Biometrics; Image, video and audio annotation; Multimedia security; Virtual reality and immersive environments; Automatic face analysis; Visual tracking; Human motion analysis and video surveillance; Multimedia forensics; Information retrieval, web search and data mining; Multi-agent systems and agent based simulation and modelling.

The Centre for Statistical and Survey Methodology (CSSM), which aims to improve the methodology and application of statistics in Australia and the Pacific via research, teaching and engagement with industry.

Institute of Mathematics and its Applications, which focuses on:
- Modelling in Nanotechnology
- Functional Analysis
- Financial Mathematics
- Systems Modelling

The Engineering Manufacturing Strength, which brings together groups such as the Integral Energy Power Quality Research Centre and Centre for Intelligent Mechatronics for the advancement of manufacturing technology across a range of industries.

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PHD)
CRICOS 001244E
Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

DOCTOR OF PHILOSOPHY (PHD) INTEGRATED
CRICOS 072703K (Information Technology & Computer Science), 074737B (Electrical, Computer & Telecommunications Engineering), 074738A (Mathematical Sciences)
Duration 4 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.
- Computer Science
- Information & Communication Technology
- Information Systems
- Electrical, Computer & Telecommunications Engineering
- Mathematics
- Statistics

MASTER OF INFORMATION SYSTEMS AND TECHNOLOGY – RESEARCH
CRICOS 042551K

MASTER OF COMPUTER SCIENCE – RESEARCH
CRICOS 042541A

MASTER OF ENGINEERING – RESEARCH (ELECTRICAL, COMPUTER OR TELECOMMUNICATIONS ENGINEERING)
CRICOS 042557D

MASTER OF SCIENCE – RESEARCH (MATHEMATICS)

MASTER OF SCIENCE – RESEARCH (STATISTICS)
CRICOS 042542M
Duration 1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.
COURSEWORK DEGREES

COMPUTER SCIENCE AND
SOFTWARE ENGINEERING

MASTER OF COMPUTER SCIENCE ADVANCED
CRICOS 06708G

Duration 2 years (96cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in Computer Science, Software Engineering or Computer Engineering with an equivalent average mark of 60%.

Applicants must be proficient in an object-oriented programming language (for example C++ or Java) and operating systems (e.g. UNIX or Linux).

COURSE STRUCTURE
Students take two major studies, each comprising six subjects (36cp), from the options below. Additional subjects include research methodology and the option to include a project (subject to meeting the entry requirement) or additional coursework.

MAJORS
Multimedia & Intelligent Processing
Recent years have witnessed interesting applications of techniques, such as fuzzy logic, rough sets, neural networks and evolutionary computation to multimedia processing. Students learn techniques to develop image and video retrieval, and artificial neural intelligence. Subjects include image and video processing, computational intelligence and pattern recognition.

Software Engineering & Project Management
This major equips students with knowledge in key areas of software specialisation, architecture, project management and testing, and project management within the IT industry. Students take three subjects in Software Engineering, including software testing and analysis, service-oriented software engineering and formal methods in software engineering; and three subjects in Project Management including IT security and risk management, change management and technology management.

Information Security
Everyone is aware of the need for information security in today’s highly networked business environment. Information is arguably an enterprise’s most valuable asset and its protection has become a global IT priority. Subjects include: coding for secure communication, advanced network security and mathematics for cryptography.

PROFESSIONAL RECOGNITION
This degree is accredited by the Australian Computer Society (ACS) as meeting the requirements for membership at the Professional level. ACS has reciprocal agreements around the world.

INFORMATICS

MASTER OF COMPUTER SCIENCE
CRICOS 012129F

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Entry Requirements Recognised Bachelor degree in Computer Science, Software Engineering or Computer Engineering with an equivalent average mark of 60%.

Applicants must be proficient in an object-oriented programming language (for example C++ or Java) and operating systems (e.g. UNIX or Linux).

COURSE STRUCTURE
Students complete a common compulsory subject, Contemporary Topics in Computer Science, a minimum three subjects from one of the majors below, and four subjects from the Computer Science graduate list of subjects.

MAJORS
Computer & Network Security
This major equips the student with modern tools and techniques required by the specialist working in the rapidly evolving security technology industry. Subjects include: coding for secure communication, network security and advanced computer security.

Multimedia Information Processing
Students master techniques required to develop multimedia applications including image and video retrieval, video surveillance, object tracking, face recognition and biometric analysis. Subjects include pattern recognition, image and video processing and computer vision.

Software Engineering
This major equips the student with knowledge in key areas of software specification, architecture, design and testing required in the industry. Subjects include software testing and analysis, service-oriented software engineering, and formal methods in software engineering.

Intelligent Systems
Several new learning and reasoning paradigms have been developed recently to cope with the problems of designing complex systems required in many real applications. This major provides the student with the fundamental knowledge and preparation for employment in exciting fields such as data mining, knowledge discovery, agent-based system development and mobile robots. Subjects include computational intelligence, perception and planning, and reasoning and learning.

The Computer Science Graduate Subject List includes study in: Software Engineering, Software Requirements and Specification, Reasoning and Learning, Pattern Recognition, Computer Vision, Perception and Planning, Computational Intelligence, Network Security, Computer Security, Information Theory, Data Mining and Knowledge Discovery.

PROFESSIONAL RECOGNITION
This degree is accredited by the Australian Computer Society (ACS) as meeting the requirements for membership at the Professional level. ACS has reciprocal agreements around the world.
**MASTER OF COMPUTER STUDIES**

**CRICOS 067081G**

**Duration** 2 years (96cp)

**Starting sessions** Autumn/Spring

**Entry Requirements** Recognised Bachelor degree in any discipline, with an equivalent average mark of 60%.

This course has been specifically designed to allow students without a computer science degree to gain the programming and computer science skills to work as a professional in the industry. It is a technically oriented course and provides graduates with the skills they need to progress in the IT industry.

**COURSE STRUCTURE**

Students must successfully complete nine compulsory subjects (54 credit points):

- Information Systems
- Algorithms and Problem Solving
- Procedural Programming
- Applied Programming
- Professional Practice & Ethics
- Algorithms and Data Structures
- Object & Generic Programming in C++
- Interacting Systems
- Systems Development

Students then need to complete no more than four subjects from Elective Subjects List A and at least three subjects from Elective List B below.


**PROFESSIONAL RECOGNITION**

This degree is accredited by the Australian Computer Society (ACS) as meeting the requirements for membership at the Professional level. ACS has reciprocal agreements around the world.

**TWO-YEAR PROGRAMS**

The following options are available to those interested in completing two years of study.

**TWO-YEAR COURSES**

- Master of Computer Science Advanced
- Master of Computer Studies

**PROGRESSION INTO AN ADVANCED MASTERS**

Students successfully completing the Master of Computer Science may progress into second year of the Master of Computer Science Advanced.

**1+1 PROGRAM**

| Master of Computer Science | Master of Information Technology Management |

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**INFORMATION SYSTEMS AND TECHNOLOGY**

**MASTER OF INFORMATION & COMMUNICATION TECHNOLOGY ADVANCED**

**CRICOS 067074F**

**Duration** 2 years (96cp)

**Starting sessions** Autumn/Spring

**Entry Requirements** Recognised Bachelor degree with an equivalent average mark of 60% in an area related to ICT. Applicants with other ICT qualifications and three years’ relevant professional experience will be considered.

This degree is aimed primarily at graduates working in the Information & Communication Technology (ICT) industry who are seeking to further their understanding of organisational, economic, regulatory and socio-technical issues that arise in the implementation and application of IT. Students can choose either to develop further their technical skills or to develop skills in ICT management.

Students may specialise in one or two of the following majors:

- ICT Strategic Planning
- Enterprise Networking
- Information Systems Development

**COURSE STRUCTURE**

The MICT program consists of two compulsory subjects chosen from:

- Fundamentals of Contemporary Technologies
- Project and Change Management
- Enterprise Architecture Design
- Systems Integration

For the MICT, students can then either complete a further six subjects (36 credit points) to obtain a major from the list below; or they can complete all four compulsory subjects (24 credit points) plus either the ICT Research Program or Health Informatics Program (see below).

The MICT Advanced program consists of all four compulsory subjects (24 credit points) from the list above. Students can then either complete two majors (36 credit points/six subjects each); or a 36 credit point major (six subjects), a 24 credit point recommended program and 12 credit points of electives; or a 36 credit point major (six subjects) and 36 credit points of elective subjects.

Both programs offer a major of study as listed below, and students in the Advanced program have the opportunity to graduate with two majors. The major/s will be recorded on the degree testamur.

**MAJORS & PROGRAMS**

**ICT Strategic Planning**

The ICT Strategic Planning major provides additional skills in ICT Management. Students select six subjects from a list of ICT management and business management subjects.

**Enterprise Networking**

The Enterprise Networking major focuses on the use of computer networks and the Web to help organisations remain competitive in a global economy. This major will allow students to build on their knowledge and skills of ICT Management.
**Information Systems Development**

The Information Systems (IS) Development major allows students to strengthen their technical skills and select up to four subjects (24 credit points) on IS development; students also complete two subjects (12 credit points) of IS electives, or a 12 cp industry-based project. This allows students to increase their IS development skills and to gain practical experience of IS development in an Australian business environment.

**ICT Research Program**

This program comprises an 18 credit point project and 6 credit points on research methods. This program is designed for students who wish to move into a research degree after completing the MICT (Adv) or who simply want to develop R&D skills for their career.

**Health Informatics Program**

This program comprises four subjects (24 credit points) specifically suited to ICT practitioners who wish to focus on the health industry or health administrators who wish to move into the management of health information systems.

**PROFESSIONAL RECOGNITION**

The Master of Information & Communication Technology (MICT) and MICT Advanced degrees are accredited by the Australian Computer Society (ACS) as meeting the requirements for membership at the Professional level. ACS has reciprocal agreements around the world, including:

- Association for Computing Machinery (USA)
- British Computer Society
- Canadian Information Processing Society
- Hong Kong Computer Society
- The Singapore Computer Society (SCS)
- The South-East Asian Regional Computer Confederation (SEARCC)
- Malaysia National Computer Confederation
- The International Federation for Information Processing (IFIP)
- Computer Society of India
- Computer Society of Pakistan
- Computer Society of South Africa
- Computer Society of Sri Lanka

**MASTER OF INFORMATION TECHNOLOGY STUDIES ADVANCED**

CRICOS 067076D

Duration 2 years (96cp)

Starting sessions Autumn/Spring

**MASTER OF INFORMATION TECHNOLOGY STUDIES**

CRICOS 067076C

Duration 1 year (48cp)

Starting sessions Autumn/Spring

**Entry Requirements** A recognised Bachelor degree in any area.

The Master of Information Technology Studies (MITS) and the MITS Advanced are designed as conversion degrees for graduates from any non-ICT area to further their knowledge of the ICT sector and apply technical skills in the workplace. The programs offer a prescribed study program that will give students the technical skills required to work in the ICT profession. The MITS Advanced provides students with additional development skills.

**COURSE STRUCTURE**

The MITS program consists of eight of the following subjects (48 credit points):

- Systems Analysis
- Communications and Networks
- Programming Concepts
- Database
- Object Oriented Programming
- Information and Communication Security Issues
- Principles of eBusiness
- Web Technologies
- System Design and Human Computer Interaction

**Health Informatics Program**

This program comprises four subjects (24 credit points) specifically suited to ICT practitioners who wish to focus on the health industry or health administrators who wish to move into the management of health information systems.

**PROFESSIONAL RECOGNITION**

The Master of Information & Communication Technology (MICT) and MICT Advanced degrees are accredited by the Australian Computer Society (ACS) as meeting the requirements for membership at the Professional level. ACS has reciprocal agreements around the world, including:

- Association for Computing Machinery (USA)
- British Computer Society
- Canadian Information Processing Society
- Hong Kong Computer Society
- The Singapore Computer Society (SCS)
- The South-East Asian Regional Computer Confederation (SEARCC)
- Malaysia National Computer Confederation
- The International Federation for Information Processing (IFIP)
- Computer Society of India
- Computer Society of Pakistan
- Computer Society of South Africa
- Computer Society of Sri Lanka

**MASTER OF HEALTH INFORMATICS**

CRICOS 048872E

Duration 1 year (48cp)

Starting sessions Autumn/Spring

**Entry Requirements** Recognised Bachelor degree with an equivalent average mark of 60% in an area related to ICT. Applicants with a degree in Health Science plus at least one year of full-time (or part-time equivalent) employment in a health-related position will be considered.

Health services in Australia and around the world are becoming increasingly reliant on IT and e-health. This program is designed to provide IT professionals with specific knowledge of health informatics and provide health professionals with a better understanding of IT within their industry. The program aims to equip graduates with an understanding of the health sector and of the application of relevant systems to that sector. The degree enables graduates to take on key roles in successful strategy development and health systems projects.

**COURSE STRUCTURE**

Compulsory subjects:

- Business Intelligence and Knowledge Management
- Concepts and Issues in Healthcare Computing
- Introduction to Health Informatics

Elective subjects (five or six):

- Statistics in Health Research
- Information Systems Strategic Planning
- Technology Management and Innovation
- IT Research Methods
- IT Research Report
- Data Mining and Knowledge Discovery
- Information Systems
- Professional Practice and Ethics
- Database
- Database Management Systems
- Epidemiology
- Social Determinants of Health
- Health Promotion
The MITS Advanced program includes all the subjects listed on previous page plus the following compulsory subjects; and three subjects chosen from the MITS Advanced electives (see below).

- Professional Practice and Ethics
- Database Management Systems
and one of the following:
- Information Systems Project
- Information Technology Project

MITS Advanced – Electives:
- Markup Languages
- Web Programming
- Strategic Systems Management
- Corporate Network Planning and Design
- Corporate Network Management
- Strategic eBusiness Solutions
- Web Programming II
- Web Modelling
- Systems Administration
- Business Process Management

PROFESSIONAL RECOGNITION
This degree is accredited by the Australian Computer Society (ACS) as meeting the requirements for membership at the Professional level. ACS has reciprocal agreements around the world.

TWO-YEAR PROGRAMS
The following options are available to those interested in completing two years of study.

TWO-YEAR COURSES
- Master of ICT Advanced
- Master of ITS Advanced

PROGRESSION INTO THE MBA
Students may be eligible for admission to the Master of Business Administration (which can be completed with a further eight subjects or one year of study) if they have completed the Masters coursework program below and have at least one year of full-time professional experience or equivalent.

<table>
<thead>
<tr>
<th>Master of Information Technology Management</th>
<th>Master of Business Administration</th>
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</thead>
</table>

1+1 PROGRAMS

| Master of Information & Communication Technology | Master of Information Technology Management |

ELECTRICAL, COMPUTER AND TELECOMMUNICATIONS ENGINEERING

MASTER OF ENGINEERING
CRICOS 072788G

Duration 1 year (48cp)
Starting sessions Autumn/Spring

The Master of Engineering provides an opportunity for graduate engineers to advance their knowledge and skills in one of the following major areas:

- Electrical Engineering
- Computer Engineering
- Telecommunications Engineering

Entry Requirements A four-year Bachelor of Engineering from UOW or other Australian university majoring in Computer, Electrical, Electronics, Telecommunications, Information or Mechatronics Engineering.

COURSE STRUCTURE
This one-year course consists of the completion of three compulsory subjects (18cp), three major subjects (18cp) and two elective subjects (12cp). Students achieving a WAM of 72.5 or higher in their first session of studies may, in their second session of enrolment, replace the two elective subjects with an Advanced Project (12cp).

All students must complete three compulsory subjects (18cp) as follows:

- Advanced Signals and Systems
- Advanced Laboratory
- Communications and ICT Workplace Practice

MAJOR SUBJECTS (18CP)
According to their study major, students must complete three subjects chosen from the list below:

Electrical Engineering
- Renewable and Distributed Generation
- Power Distribution Systems
- Computational Intelligence

Computer Engineering
- Computational Intelligence
- Image and Video Processing
- Internet Networking Protocols

Telecommunications Engineering
This major focuses on the design of modern communication systems. Subjects include:

- Mobile Networks
- Coding for Secure Communication
- Internet Networking Protocols

ELECTIVE SUBJECTS (12CP)
Students also must take 12cp of elective subjects chosen from the following:

- Advanced Project
- Technology Management and Innovations
- Sustainability for Engineers
- Professional Practices
- Engineering Professional Placement
MASTER OF ENGINEERING STUDIES
CRICOS 012128G

Duration 1 year (48cp)
Starting sessions Autumn/Spring

The Master of Engineering Studies is designed to provide an opportunity for graduate engineers to extend their engineering skills, including technical and communication skills, in order for them to meet the demands of the rapidly evolving engineering sector. The course has the following majors:

- Electrical Engineering
- Computer Engineering
- Telecommunications Engineering
- Power Engineering
- Robotics and Automation

Entry Requirements: A four-year Bachelor degree majoring in Computer Engineering or Technology, Electrical Engineering, Electronics Engineering, Telecommunications Engineering, Control, Automation, Information Engineering, or Mechatronics.

COURSE STRUCTURE
This one-year course consists of the completion of three compulsory subjects (18cp), three major subjects (18cp) and two elective subjects (12cp).

Compulsory subjects (18cp):
- Advanced Signals and Systems
- Advanced Laboratory
- Communications and ICT Workplace Practice

MAJOR SUBJECTS (18CP)
According to their study major, students must complete three subjects chosen from the list below:

Electrical Engineering
This major equips graduates with skills needed to design, construct and control electronic and electrical systems for telecommunications, automated systems and the power industry. Subjects include:

- Embedded Systems
- Network Engineering
- Internet Networking Protocols
- Power Distribution Systems
- Computer Systems
- Computer Controlled Systems

ELECTRICAL, COMPUTER & TELECOMMUNICATIONS ENGINEERING

COURSE OPTIONS AND PATHWAYS
The following options provide the maximum flexibility for students to choose:

- a one-year course, a two-year course, or complete two courses in two years; AND
- any of the majors offered by the School of Electrical, Computer & Telecommunications Engineering, regardless of their previous engineering background; AND
- have the opportunity to access a work experience placement or advanced projects as preparation to apply for a future research course.

ENTRY

YEAR ONE
- Master of Professional Engineering
  - Professional Practice
  - Advanced Technical Skills via Majors

YEAR TWO
- Master of Engineering Studies
  - Advanced Technical Skills via Majors
- Year 2 of the Master of Professional Engineering
  - Industrial Experience#
  - Research#

CAREERS
Enter the engineering workplace as professional engineer**

---

* Subject to meeting the entry requirement.
** Graduates are required to complete the accreditation process with Engineers Australia.
* Availability subject to approval.
Computer Engineering
This major focuses on the many aspects of computing, from software design to hardware-software integration. Subjects include:

- Multimedia Signal Processing
- Real-Time Computing
- Embedded Systems
- Image and Video Processing
- Computer Systems
- Robotics and Flexible Automation

Telecommunications Engineering
This major focuses on the design of modern communication systems. Subjects include:

- Multimedia Signal Processing
- Network Engineering
- Internet Technology Laboratory
- Telecommunications System Modelling
- Wireless Communication Systems
- Telecommunications Network Management

Power Engineering
This major enables graduates to focus on the key elements of power engineering. Subjects include:

- Power Electronics and Drives
- Power System Analysis
- Real-Time Computing
- Power Distribution Systems
- Computer Controlled Systems
- Project and Change Management

Robotics and Automation
This major equips graduates with advanced knowledge and skills in the area of mechatronics. Subjects include:

- Power Electronics and Drives
- Real-Time Computing
- Embedded Systems
- Intelligent Control
- Computer Controlled Systems
- Robotics and Flexible Automation

Compulsory subjects (42cp)
- Advanced Signals and Systems
- Advanced Laboratory
- Professional Practice
- Sustainability for Engineers, Scientists and Professionals
- Advanced Topics in Engineering
- Technology Management and Innovation

MAJOR SUBJECTS (36CP)
Students must complete six subjects from the list available for that major, as per subjects listed for the Master of Engineering Studies.

Three streams (comprising 18cp) are available:
- Stream 1 – Internship: including a Professional Workplace report of the completed internship and two electives.
- Stream 2 – Advanced Project: students achieving a WAM of 72.5 may complete an Advanced Project (12cp) and one elective.
- Stream 3 – Electives: students complete three elective subjects.

The Internship and Advanced Project are subject to meeting an entry requirement.

MASTER OF TECHNOLOGY ENGINEERING*
CRICOS 067082F

Duration 2 years (96cp)
Starting sessions Autumn/Spring
Entry requirements Completion of a Bachelor degree (equivalent to a three-year Australian tertiary qualification) in Engineering, Physics or other related area.

The Master of Technology Engineering is designed for students who have an undergraduate background that is not specifically in Computer, Electrical or Telecommunications Engineering.

COURSE STRUCTURE
Students must satisfactorily complete 96 credit points:

- The Graduate Diploma in Technology Engineering (48cp – see below)

Plus:

- Advanced Signals and Systems
- Communications and ICT Workplace Practice

And six subjects selected from one of the major studies below:

Digital Media Broadcasting

- Multimedia Signal Processing
- Real-Time Computing
- Embedded Systems
- Advanced Network Security
- Information Technology Security and Risk Management
- Advanced Laboratory
- Image and Video Processing
- Wireless Communication Systems
- Multimedia Content Management
- Web Services and Service Oriented Architecture

Internet Technology

- Advanced Network Security
- Telecommunications Systems Modelling
- Wireless Communication Systems
- Telecommunications Network Management
- Web Services and Service Oriented Architecture
- Information Design and Content Management
- Internet Networking Protocols
- Internet Technology Laboratory
- Network Engineering

* Availability subject to approval.
GRADUATE DIPLOMA IN TECHNOLOGY ENGINEERING
CRICOS 067073G

Duration 1 year (48cp)
Starting sessions Autumn/Spring

The program provides a pathway to Masters courses in engineering.

Entry Requirements: A four-year bachelor degree in Computing, IT, Physics or Engineering (other than Computer Engineering or Technology, Electrical Engineering, Electronics Engineering, Telecommunications Engineering, Control, Automation, Information Engineering or Mechatronics); or a three-year degree/diploma majoring in Computer, Electrical, Electronics, Telecommunications or Mechatronics Engineering.

COURSE STRUCTURE
The course comprises eight subjects selected and approved by the Head of School, based on the student’s undergraduate background and/or relevant experience. Students will have the opportunity to gain fundamental knowledge and general skills in areas of electrical engineering, computer engineering and telecommunications engineering.

PROGRESSION INTO THE MASTER OF PROFESSIONAL ENGINEERING
Students successfully completing the Master of Engineering Studies may progress into the second year of the Master of Professional Engineering.

PROGRESSION INTO THE MASTER OF TECHNOLOGY ENGINEERING
Students successfully completing the Graduate Diploma in Technology Engineering may progress into second year of the Master of Technology Engineering.

1+1 PROGRAMS

<table>
<thead>
<tr>
<th>Master of Engineering Studies</th>
<th>Master of Engineering Practice (Mechatronics)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Master of Information &amp; Communication Technology</td>
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<td>Master of Information Technology Management</td>
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MATHEMATICS AND APPLIED STATISTICS

MASTER OF FINANCIAL MATHEMATICS
CRICOS 050301F

Duration 1 year (48cp)
Starting sessions Autumn/Spring

Entry Requirements Recognised Bachelor degree with a major in Mathematics or Statistics, or the Master of Mathematical Studies. Applicants with other three-year degrees will be considered if they possess a substantial background in mathematics (including calculus, linear algebra, differential equations, probability and statistics) equivalent to at least a second-year Bachelor level.

This Masters provides training in quantitative financial analysis and a range of analytical, statistical, computational and modelling skills needed for the formulation, implementation and evaluation of models in the financial sector to structure transactions, evaluate financial derivatives, manage risk and construct investment strategies.

COURSE STRUCTURE
Students complete six 6cp compulsory subjects:
- Advanced Risk & Insurance
- Managerial Finance
- Financial Calculus
- Numerical Methods
- Stochastic Methods in Finance
- Multiple Regression & Time Series

Plus three additional finance or statistics electives. Students also attend practitioners’ seminars.

PROFESSIONAL RECOGNITION
This program satisfies the education requirements for Senior Associate membership of the Financial Services Institute of Australasia (FINSA).

MASTER OF MATHEMATICS
CRICOS 012130B

Duration 1 year (48cp)
Starting sessions Autumn/Spring

Entry Requirements Recognised Bachelor degree with a major in Mathematics or the Master of Mathematical Studies.

This program is designed to consolidate and expand the mathematics knowledge gained by a student in an undergraduate program and to develop skills in undertaking mathematical research projects. Students complete a research project and additional subjects chosen from the electives available in Mathematics or Statistics.

MASTER OF STATISTICS
CRICOS 016121D

Duration 1 year (48cp)
Starting sessions Autumn/Spring

Entry Requirements Recognised Bachelor degree with a major in Statistics or the Master of Mathematical Studies.

This program is designed to upgrade statistical skills and to educate the candidate to undertake advanced statistical work in industry, commerce or government, including the ability to communicate effectively with others.

MASTER OF MATHEMATICAL STUDIES
CRICOS 068541J

Duration 1 year (48cp)
Starting sessions Autumn/Spring

Entry Requirements Recognised Bachelor degree with at least one year of mathematics.

This course is for students with limited background in mathematics to gain knowledge and specialist skills in mathematics and/or statistics. Students will develop research skills through small projects, and the ability to communicate effectively with others.

On the completion of this degree, graduates will be eligible to enrol in the Master of Mathematics, Master of Statistics or Master of Financial Mathematics.

TWO-YEAR PROGRAMS
The following options are available to those interested in completing two years of study.

1+1 PROGRAMS

<table>
<thead>
<tr>
<th>Master of Mathematical Studies</th>
<th>Master of Financial Mathematics</th>
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<tbody>
<tr>
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<td>Master of Mathematics</td>
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<td></td>
<td>Master of Statistics</td>
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</table>

INFORMATICS
The Faculty of Law offers interdisciplinary programs that deliver practical skills with an international perspective. Our Masters programs combine research and practical techniques to provide the flexibility to meet your vocational needs. Graduates of our degrees are now engaged in influential positions in courts, government agencies, private firms and universities throughout Australia, the Asia – Pacific and the Middle East.

The UOW Faculty of Law is one of Australia’s leaders in postgraduate legal research, with strengths in:

- Law and Society
- Ocean Resources and Security
- Comparative Law in the Asia – Pacific
- Transnational Crime Prevention

The Faculty has attracted highly qualified staff from universities in Australia and overseas, as well as from the practice of Law. The specialised staff of the Law Library can help you with database searches and retrieval of other information, using online and hard copy resources.

Students will greatly benefit from recent advances in legal education in Australia and beyond, that have influenced the design of the courses and their components. Our postgraduate students also organise interdisciplinary seminars around areas of common interest, which stimulate lively debate among staff and other students.

PROFESSIONAL LEGAL TRAINING

The Legal Practice Unit within the UOW Faculty of Law is accredited by the admitting authority in NSW, the Legal Profession Admission Board, to offer instruction through its Professional Legal Training Course (the PLT Course).

For more information see uow.edu.au/law/plt

For more information on the Faculty of Law, visit uow.edu.au/law

For information on specific courses and subjects available in the Faculty: uow.edu.au/handbook/current/pg/law

SPECIALIST CENTRES

INSTITUTE FOR TRANSTATIONAL AND MARITIME SECURITY (ITAMS)

uow.edu.au/research/itams

The Institute for Transnational and Maritime Security (ITAMS) builds on the combined strengths and international reputations of the Australian National Centre for Ocean Resources and Security (ANCORS) and the Centre for Transnational Crime Prevention (CTCP). Under the umbrella of ITAMS, both Centres work together on the intersecting areas of oceans and transnational security, including people smuggling by sea, piracy and transnational marine environmental crime.

AUSTRALIAN NATIONAL CENTRE FOR OCEAN RESOURCES AND SECURITY (ANCORS)

ancors.uow.edu.au

ANCORS is Australia’s only multidisciplinary university-based centre dedicated to research, debate and education on national and international ocean law, security and cooperation, and natural marine resource management.

LEGAL INTERSECTIONS RESEARCH CENTRE (LIRC)

uow.edu.au/law/LIRC

The Legal Intersections Research Centre (LIRC) fosters and promotes a range of research programs and endeavours at law’s edges, with a strong emphasis on cross-disciplinary perspectives.

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PHD)

CRICOS 028400J

Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF LAWS – RESEARCH

CRICOS 042525A

Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF MARITIME STUDIES – RESEARCH

CRICOS 045472G

Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.
COURSEWORK DEGREES

MASTER OF LAWS (CRIMINAL PROSECUTIONS)
CRICOS 067078B

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus
Entry Requirements A degree in Law from a recognised institution, or be admitted to practise as a barrister or solicitor.

This program offers the only postgraduate qualification in law in Australia specialising in criminal prosecutions. It develops professional legal training and transnational crime prevention and has equal relevance to those involved in criminal defence work.

COURSE STRUCTURE

Students complete the Prosecutions Research Project (12cp) and the following compulsory subjects:

- Prosecutorial Practice
- Applied Criminal Law
- Advanced Criminal Evidence
- Experts & Their Evidence

Plus two electives from the following:

- International Law and Criminal Jurisdiction
- Prosecuting International Humanitarian Law
- Comparative Criminal Justice
- Special Studies in Prosecutions
- Criminal Trial and Appellate Advocacy

Note: Not all subjects are offered every year. Students are advised to contact the Course Coordinator before enrolling.

MASTER OF MARITIME STUDIES
CRICOS 042637D

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus and distance

MASTER OF MARITIME POLICY
CRICOS 017740B

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus
Entry Requirements Recognised Bachelor degree or equivalent, or an appropriate professional background.

These programs are designed to meet the professional development requirements of those working in marine fields, such as navies, relevant government departments and agencies, NGOs and the private sector; or those who intend to pursue a career in a maritime or related field.

The program of study is multidisciplinary, providing a broad understanding of the maritime studies/policy field. Students can specialise in areas corresponding to the Australian National Centre for Ocean Resources & Security research strengths, including maritime law, ocean policy, the environment and security.

COURSE STRUCTURE

Program | Subjects
---|---
Master of Maritime Studies | Law of the Sea and Research Project in Maritime Studies; together with four subjects from the list below.
Master of Maritime Policy | Law of the Sea and Comparative Oceans Policy; together with four subjects from the list below.

Elective subjects:

- Strategy and Sea Power
- Maritime Regulation and Enforcement
- Legal Regulation of Shipping
- Maritime Security Law and Policy
- Contemporary Maritime Issues in the Asia – Pacific Region
- International Marine Environmental Law
- Selected Topic in Maritime Studies
- Minor Thesis in Maritime Studies (16cp)
- Integrated Marine and Coastal Management
- International Fisheries Law
- Fisheries Management
- Research Project in Maritime Studies
- Comparative Oceans Policy

Note: Not all subjects are offered every year. Students are advised to contact the Course Coordinator before enrolling.

MASTER OF FISHERIES POLICY
CRICOS 088542G

Duration 1 year (48cp)
Starting sessions Autumn/Spring
Delivery mode On-campus
Entry Requirements Recognised Bachelor degree or equivalent, or an appropriate professional background.

The program covers international, regional and national frameworks for sustainable fisheries management and provides knowledge and skills necessary for the management of fisheries and aquatic resources. The program is designed for fisheries and environmental policy officers, mid-level managers and enforcement officers from governments, and regional and international organisations.

GRADUATE DIPLOMA IN LEGAL PRACTICE
CRICOS 030380A

Duration 20 weeks (48cp)
Starting sessions Autumn/Spring
Delivery mode Flexible

Entry Requirements Recognised Bachelor degree or equivalent, or an appropriate professional background.

The Legal Practitioners Admission Board recognises this course for graduates applying for admission as legal practitioners in NSW. All subjects in this program are offered by flexible delivery. This combines on-campus weekend residential programs with distance education and integrates practical training and professional experience. The program incorporates electronic learning, group workshops and seminars. Course activities relate to work undertaken at the placement or employment site and students will develop knowledge and understanding of current legal practice.

PROFESSIONAL RECOGNITION

The Legal Practitioners Admission Board recognises this course for graduates applying for admission as legal practitioners in NSW. Refer to the Faculty of Law Legal Practice Unit at uow.edu.au/law/plt for details before lodging this application.

Note: International law graduates should first contact the Legal Profession Admission Board for directions as to what requirements they must meet in order to qualify for admission in New South Wales.
The UOW Graduate School of Medicine (GSM) is committed to training doctors who will use their skills to serve their communities, particularly in regional, rural and remote locations, offering a distinctive approach to medical education. The School is based at two UOW campuses; Wollongong (Regional) and Shoalhaven (Rural), and benefits from dedicated purpose built facilities with excellent resources and information technology support.

The Graduate School of Medicine is a part of a combined initiative with the Illawarra Health and Medical Research Institute (IHMRI), which encourages close collaboration between local academic and clinical research efforts.

For more information about the Graduate School of Medicine visit uow.edu.au/gsm

For information on specific courses and subjects available in the Faculty go to: uow.edu.au/handbook/current/pg/gsm

ILLAWARRA HEALTH AND MEDICAL RESEARCH INSTITUTE (IHMRI)

IHMRI is a joint venture between UOW and the Illawarra Shoalhaven Local Health District. Its goal is to be the focal point of health and medical research in the Illawarra region.

The Institute is situated on UOW main campus and includes PC2 modular laboratories, a specialist PC3 vaccine testing laboratory and specialist areas for molecular genetics, low-level radioactive testing, confocal and beta-imaging microscopy.

The Institute also houses a clinical research and trials area that incorporates exercise and aerobic testing areas, nine consulting rooms, blood collection laboratory, food preparation facilities, dialysis/treatment chairs and a DEXA body composition facility.

IHMRI’s research program encompasses the following themes:

- Cancer Continuum
- Infectious Diseases
- Neuroscience and Mental Health
- Human Genetics
- Population Health
- Healthy Ageing
- Metabolic Conditions
- Primary Care and Rural Health
- Nutrition

For more information, see ihmri.uow.edu.au

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PHD)

CRICOS 072792M

Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

MASTER OF MEDICAL SCIENCE – RESEARCH

CRICOS 071421B

Duration 1.5 years
Starting session Autumn/Spring
Entry Requirements Listed on page 19.

The Doctor of Philosophy and the Master of Medical Science – Research provide opportunities to pursue independent research in areas relevant to medicine, medical sciences and medical education.

BACHELOR OF MEDICINE & BACHELOR OF SURGERY

CRICOS 054941G

Duration 4 years
Starting sessions January
Entry Requirements This is a Graduate Medicine program; therefore applicants must have completed a Bachelor Degree. The completed degree can be in any discipline; however, applicants must have completed it within ten years of the course commencement.

Students must also sit the Graduate Australian Medical School Admissions Test (GAMSAT), an independently developed exam designed to help graduate medical schools select candidates. International students may also apply with an appropriate score in the Medical College Admission Test (MCAT).

All students are required to prepare and submit a portfolio to GSM. Details of the application process including entry and portfolio requirements can be found on the GSM website uow.edu.au/gsm/futurestudents

COURSE STRUCTURE

The Bachelor of Medicine Bachelor of Surgery is a prescribed four-year course with specific course rules regarding course progression, including minimum rate of progress.

Students spend significant time during their training in long-term clinical placements in regional and rural facilities and with regional and rural doctors, developing an understanding of what it means to practise medicine in these areas. These clinical experiences reflect the realities of medicine in regional, rural and remote communities, and the curriculum presents ‘problems’ that students must solve in the context of these places.

While the GSM focuses on training doctors to work in non-urban areas, graduates receive a broad-based training that ensures they can pursue any career in medicine, including all the medical specialisations.

UOW offers a unique and rewarding educational experience that provides the academic base for a lifetime of practising medicine in a rapidly changing and challenging health care environment.
The Faculty of Science is internationally renowned for its record of innovative and dynamic research. Researchers from the Faculty have been recognised through awards such as election to the Australian Academy of Science, Fulbright and Humboldt Fellowships. Recent highlights include being part of the research team that discovered the skeleton of the human species *Homo floresiensis* in Indonesia.

Our researchers maintain a high level of funding grants from the Australian Research Council, the National Health and Medical Research Council and other prominent agencies. Research partnerships also exist with other Government agencies, Australian and international industry and regional organisations.

As a postgraduate student in the Faculty of Science, you will join around 100 academic and specialist research staff and more than 150 doctoral and Masters research students. A distinctive feature of the Faculty’s programs is the close connection between research and teaching. Our teaching programs have a strong emphasis on active investigation and you will have the opportunity to gain work experience.

Many of our postgraduate coursework degrees are linked directly to research programs, and many postgraduate research students are also extensively involved in teaching at an undergraduate level. Weekly research seminars are held throughout the year, and independent research may also be undertaken in collaboration with partner universities overseas. Collaborative international research is ongoing, with scientists based in many countries including the UK, USA, Germany and Thailand.

We have a wide range of dedicated research laboratories with strong capabilities in computer-aided molecular modelling, state-of-the-art facilities for mass spectrometry, NMR spectroscopy, FTIR spectroscopy, optically stimulated luminescence and thermoluminescence dating; several spatial analysis techniques; and instruments for a diverse range of analytical methods within the biological, chemical and earth and environmental sciences.

Research Groups within the Faculty have established close and expanding interactions with many industrial and governmental organisations including leading Australian biotechnology developer AMRAD, the Australian Nuclear Science and Technology Organisation (ANSTO), BHP Billiton, GlaxoSmithKline, Johnson & Johnson, the Commonwealth Science and Industrial Research Organisation (CSIRO) and the mining company Rio Tinto.

For more information on the Faculty of Science: [uow.edu.au/science](http://uow.edu.au/science)

For information on specific courses and subjects available in the Faculty go to: [uow.edu.au/handbook/current/pg/science](http://uow.edu.au/handbook/current/pg/science)

### RESEARCH CENTRES & INSTITUTES

#### CENTRE FOR ARCHAEOLOGICAL SCIENCE
This Centre aims primarily to solve key questions in world archaeology and human evolution by developing, adapting and applying a range of scientific methods and technologies used in physics, chemistry, biology, geology, materials engineering and informatics.

#### CENTRE FOR MEDICAL BIOSCIENCE (CMB)

The Centre for Medical Bioscience is focused in three key areas:
- Anti-microbial agents – targeted at new anti-bacterials
- Age-related diseases – cataract; neurodegenerative disease
- Cancer – new therapeutics for breast and prostate cancer

#### CENTRE FOR MEDICINAL CHEMISTRY (CMC)

This Centre is committed to medical research that will increase our understanding of the molecular origins and mechanisms of disease, leading to the development of new pharmaceuticals.

#### GEOQUEST RESEARCH CENTRE

GeoQuEST brings together outstanding researchers from the disciplinary traditions of geography, geology and environmental science around central interests in earth process and environmental change and atmospheric chemistry, including human interactions.

#### INSTITUTE FOR CONSERVATION BIOLOGY AND ENVIRONMENTAL MANAGEMENT

This Institute conducts world-class research concerning the biology, conservation and management of Australia’s native biota. It trains highly competent researchers in this area and fosters interdisciplinary and research training, linking science with law, policy and management.
The IPRI is the lead node of the Centre of Excellence for Electromaterials Science (ACES). Research and development programs at IPRI cover nanoscience and nanotechnology, monomer and polymer processing, polymer characterisation and the application of these intelligent multifunctional materials in membrane technology, asymmetric synthesis, chromatography, sensors, biomaterials, advanced coatings, actuators, solid-state devices, solar cells and batteries. The ACES explores the application of electromaterials to everyday life and draws together research from biologists, clinicians, chemists, physicists and engineers.

The Bushfire CRC is conducting a range of projects that aim to enhance the management of bushfire risk to the community in an economically and ecologically sustainable way.

The CRC for Polymers conducts leading-edge polymer research to deliver advanced polymeric materials and polymer engineering needed to transform Australian industries. It aims to establish and expand companies in emerging high-growth areas of the economy.

This Centre is focused on more effective prevention and improved remediation of hearing loss. Through research and its utilisation, the Hearing CRC aims to reduce the impact of hearing loss by:
- maximising lifelong hearing retention
- reducing loss of productivity due to hearing loss
- increasing uptake and use of hearing technology
- providing postgraduate education and professional training.

This Network was created to gather different fields of expertise to expand on the development of new anticancer chemotherapeutics.

This centre carries out research and postgraduate teaching activities based on the needs of the southeastern region of Australia. The SMFC’s research service aspires to meet regional demands and address global challenges.

The Centre for Atmospheric Chemistry investigates atmospheric composition on a local and global scale focusing on key areas such as solar infrared spectroscopy, stable isotope ratios and atmospheric chemical transport modelling.

The PDRC brings together researchers from UOW, other universities and international collaborators. This Centre aims to actively promote collaborative projects and develop Australian proteostasis research.

**RESEARCH DEGREES**

**DOCTOR OF PHILOSOPHY (PHD)**
CRICOS 001243F (laboratory) 020192k (non-laboratory)
Duration 3 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

**DOCTOR OF PHILOSOPHY (PHD) INTEGRATED**
CRICOS 072845C (laboratory), 072844D (non-laboratory)
Duration 4 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

**MASTER OF ENVIRONMENTAL SCIENCE – RESEARCH**
CRICOS 042533A
Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

**MASTER OF SCIENCE – RESEARCH**
CRICOS 042532B, 042534M (Geography)
Duration 1–1.5 years
Starting sessions Autumn/Spring
Entry Requirements Listed on page 19.

- Biological Sciences
- Biotechnology
- Chemistry
- Environmental Science (PhD only)
- Geography
- Geology
- Medicinal Chemistry
- Physics*

* Physics is located in the Faculty of Engineering. See page 51 for more information.

**COURSEWORK DEGREES**

**ENVIRONMENTAL SCIENCE**

**MASTER OF ENVIRONMENTAL SCIENCE ADVANCED**
CRICOS 048589C
Duration 2 years (96cp)
Starting sessions Autumn/Spring
Entry Requirements Bachelor degree in Environmental Science, Science, Applied Science, Agriculture, Forestry, Veterinary Science or Engineering, or equivalent tertiary qualifications and/or professional experience.
This degree combines research and coursework to provide a two-year degree for Science and Engineering graduates or others with a limited undergraduate background in the environmental science area.

COURSE STRUCTURE
Candidates must complete the three core subjects, plus a thesis of either 24 or 32 credit points plus elective subjects, to a total of 96 credit points.

Compulsory Subjects:
- The Scientific Basis of Environmental Management
- Environmental Planning
- Studies in Resource and Environmental Policy

Plus one or two of the following group of elective subjects:
- Environmental Engineering
- Law for Environmental Managers
- Sample Surveys and Experimental Design

Plus at least two of the following group of elective subjects:
- Directed Studies in Environmental Chemistry
- Directed Studies in Ecology
- Directed Studies in Land Resources
- Directed Studies in Earth Sciences

MASTER OF ENVIRONMENTAL SCIENCE
CRICOS 026171M

Duration 1 year (48cp)
Starting sessions Autumn/Spring

Entry Requirements A recognised Bachelor degree in Environmental Science, Science, Applied Science, Agriculture, Forestry, Veterinary Science or Engineering, or equivalent tertiary qualifications and/or professional experience of at least five years.

This program is designed for applicants who wish to extend their knowledge of science relating to the environment by studying areas not covered in their undergraduate Science or Engineering degree (including environmental policy, planning and management).

COURSE STRUCTURE
Compulsory subjects:
- The Scientific Basis of Environmental Management
- Environmental Planning

Plus two or three subjects (24cp) chosen from the following:
- Advanced Plate Tectonics, Macrotopography and Earth History
- Advanced Coastal Environments
- Advanced Fluvial Geomorphology and Sedimentology
- Advanced Geographic Information Systems
- Advanced Remote Sensing
- Advanced Soils, Landscapes and Hydrology
- Fundamentals of Spatial Science
- Coastal Population Studies
- Advanced Resources and Environments
- Environmental Engineering
- Directed Studies in Environmental Chemistry
- Directed Studies in Ecology
- Directed Studies in Land Resources
- Directed Studies in Earth Sciences
- Directed Studies in Environmental Science
- Law for Environmental Managers
- Sample Surveys and Experimental Design
- Studies in Resource and Environmental Policy

ENVIRONMENTAL BIOLOGY COASTAL PLANNING AND MANAGEMENT GEOLOGY, HUMAN GEOGRAPHY, PHYSICAL GEOGRAPHY, BIOTECHNOLOGY, MEDICINAL CHEMISTRY, CHEMISTRY

The Faculty offers two paths to a Master of Science in these fields, with a third Graduate Diploma pathway for students requiring foundations in Biological Sciences, Geology, Human Geography or Physical Geography.

The Master of Science is a 1.5-year degree within which students have a large choice of majors (see below).

The Master of Science and Management is a two-year degree which, in addition to the choice of major, offers the bonus of a suite of postgraduate Management subjects to increase career opportunities.

MASTER OF SCIENCE
CRICOS 067084D (laboratory) 069588G (non-laboratory)

Duration 1.5 years (72cp)
Starting session Autumn/Spring

COURSE STRUCTURE
The Master of Science includes four compulsory subjects:
- Fundamentals of Science Communication
- Fundamentals of Science Practice
- Fundamentals of Science Data and IT
- Current Questions in Science

Students also choose one of the available major studies and complete the requirements for that major. The program may provide an alternative route to subsequent PhD studies for high-achieving students without a Bachelor of Science Honours degree.

MASTER OF SCIENCE AND MANAGEMENT
CRICOS 067083E (laboratory) 069588G (non-laboratory)

Duration 2 years (96cp)
Starting session Autumn/Spring

COURSE STRUCTURE
The Master of Science and Management includes four compulsory subjects:
- Fundamentals of Science Communication
- Fundamentals of Science Practice
- Fundamentals of Science Data and IT
- Current Questions in Science

Note: Candidates with appropriate qualifications and laboratory skills may be awarded advanced standing for the four compulsory subjects.

Students must choose one of the available major studies also offered in the Master of Science and complete the requirements for that major.

In addition, students complete four subjects selected from the Master of Business Administration (MBA) compulsory subjects:
- Accounting for Managers*
- Managing People in Organisations
- Marketing Management
- Economic Analysis of Business
- Financial Strategy*
- Corporate Governance
- International Business Strategy
- Strategic Decision Making

* Accounting for Managers is a pre-requisite for Financial Strategy.
The Graduate Diploma in Science is a one-year degree for students who wish to upgrade their qualifications and gain further background in Science where entry into a Masters program is not appropriate.

ENVIRONMENTAL BIOLOGY

COASTAL PLANNING AND MANAGEMENT

MASTER OF SCIENCE

MASTER OF SCIENCE AND MANAGEMENT

ENVIRONMENTAL BIOLOGY

Entry requirements A recognised Bachelor of Science degree that includes introductory-level subjects in the areas of general biology, ecology, genetics, evolution, physiology and statistics. This program is designed for students who seek further knowledge and skills in the biological sciences, or want to qualify for a postgraduate research degree. Areas covered include conservation biology, ecological and evolutionary physiology, marine and terrestrial ecology, and fisheries and aquaculture.

COURSE STRUCTURE

MSc compulsory subjects plus four subjects as follows:

- Advances in Conservation Biology
- Marine and Terrestrial Ecology
- Ecological and Evolutionary Biology
- Advanced Topics in Fisheries and Aquaculture

Research projects and subjects in Molluscan Biology and other areas may be substituted with the approval of the Masters Coordinator.

COASTAL PLANNING AND MANAGEMENT

Entry requirements A recognised Bachelor degree in Geology.

Geology, Human Geography, Physical Geography

MASTER OF SCIENCE

MASTER OF SCIENCE AND MANAGEMENT

GEOLOGY

Entry requirements A recognised Bachelor degree in Geology.

Geology is the study of the earth, the materials of which it is made, the processes that act on these materials, the products formed and the history of the planet and its life forms.

COURSE STRUCTURE

MSc compulsory subjects plus four of the following subjects:

- Advanced Plate Tectonics, Macrotopography and Earth History
- Advanced Fluvial Geomorphology and Sedimentology
- Advanced Geographic Information Science
- Advanced Remote Sensing
- Advanced Isotope Geochemistry
- Fundamentals of Spatial Science
- Advanced Environmental Geology
- Advanced Sediments and Fuels
- Advanced Resources and Environments
- Advanced Topic A

HUMAN GEOGRAPHY

Entry requirements A recognised Bachelor degree in Social Science, Economics, Planning, Demography or Human Geography.

Human Geography is the study of human societies, their environments and conflicts over access to resources. Human Geography makes essential contributions to environmental management, urban planning, population studies and the management of social and economic change.

COURSE STRUCTURE

MSc compulsory subjects plus four of the following subjects:

- Advanced Geographic Information Science
- Advanced Remote Sensing
- Advanced Social Spaces: Rural and Urban
- Fundamentals of Spatial Science
- Coastal Population Studies
- Advanced Spaces, Places and Identities: Qualitative Research Design
- Advanced Environmental and Heritage Management
- Advanced Topic A

PHYSICAL GEOGRAPHY

Entry requirements A recognised Bachelor degree in a relevant Science discipline.

Physical Geography is the study of patterns and processes in the environment caused by the forces of nature. It examines the environmental and ecological problems facing the world and provides the skills and knowledge to assist in managing them.
COURSE STRUCTURE
MSc compulsory subjects plus four of the following subjects:
- Advanced Plate Tectonics, Macrotopography and Earth History
- Advanced Coastal Environments: Processes and Management
- Advanced Fluvial Geomorphology and Sedimentology
- Advanced Geographic Information Science
- Advanced Remote Sensing
- Advanced Soils, Landscapes and Hydrology
- Fundamentals of Spatial Science
- Advanced Resources and Environments
- Advanced Topic A

CHEMISTRY, MEDICINAL CHEMISTRY, MEDICAL BIOTECHNOLOGY

MASTER OF SCIENCE
CRICOS 067084D (laboratory) 069587J (non-laboratory)

MASTER OF SCIENCE AND MANAGEMENT
CRICOS 067083E (laboratory) 069588G (non-laboratory)

CHEMISTRY

Entry requirements
A recognised Bachelor of Science degree in Chemistry, including at least 24cp (or equivalent) of third-year chemistry.

COURSE STRUCTURE
MSc compulsory subjects plus four of the following subjects:
- Advanced Analytical Chemistry
- Elucidating Molecular Structure
- Intelligent Materials and Their Applications
- Advanced Organic Synthesis and Reactivity
- Environmental Chemistry and Climate Change

In consultation with the Masters Coordinator, students may be able to substitute one or more of these subjects with the following:
- Advanced Chemistry Laboratory Project
- Literature Report in Chemistry

MEDICINAL CHEMISTRY

Entry requirements
A recognised Bachelor of Science degree in Chemistry or Medicinal Chemistry, including at least 24cp (or equivalent) of third-year Chemistry and at least second-year Biology and Biochemistry.

There is currently a high demand for graduates in Medicinal Chemistry. The program provides vocational training in the area and consists of specialised coursework and a small research project. The program includes study of drug design and development, synthesis, pharmacology, computer modelling and structural studies.

COURSE STRUCTURE
MSc compulsory subjects plus four subjects comprising:
- Introduction to Medicinal Chemistry
- Advanced Topics in Medicinal Chemistry

Plus two of the following:
- Advanced Analytical Chemistry
- Elucidating Molecular Structure
- Bioinformatics and Biological Chemistry
- Advanced Organic Synthesis and Reactivity

In consultation with the Masters Coordinator, students may be able to substitute one or more of these subjects with the following:
- Advanced Chemistry Laboratory Project
- Literature Report in Chemistry

MEDICAL BIOTECHNOLOGY

Entry requirements
A recognised Bachelor of Science degree that includes subjects in the areas of biochemistry, cell medical biology, molecular biology, microbiology or immunology.

The Medical Biotechnology major is designed for graduates who seek knowledge and technological expertise in specific areas of cell and molecular biology, which are the basis for modern biotechnological research and development. Students will gain an understanding of DNA technology and genetic engineering of micro-organisms, plant and animal cells. The subjects provide an introduction to the basic elements of modern cell and molecular biology, before proceeding to intensive training in current biotechnology and its application to the fields of human therapeutics, agriculture and diagnostics.

Tutorials and laboratory-based practical work will be undertaken in each of the subjects, and students have the opportunity to explore new technology including genomics, transcriptomics and proteomics.

COURSE STRUCTURE
MSc compulsory subjects plus four subjects as follows:
- Biotechnology
- Molecular Cell Biology
- Infection & Immunity
- Applied Bioinformatics

In consultation with the Masters Coordinator, students may be able substitute one or more of the above with the following subjects:
- Major Research Project
- Literature Review
- Research Project

TWO-YEAR PROGRAMS

The following options are available to those interested in completing two years of study.

TWO-YEAR COURSES
- Master of Environmental Science Advanced
- Master of Science and Management
The Simulation, Modelling, Analysis, Research and Teaching (SMART) Infrastructure Facility is uniquely placed to design, model and simulate the complex interdependencies of infrastructure networks.

Australia’s future prosperity and quality of life depend on the nation’s complex web of infrastructure—rail, air, road, shipping, energy, water, and telecommunications and social amenity.

SMART provides a comprehensive and nuanced understanding of the complexities of these essential systems. This will give partners the power to evaluate and develop projects in a systemic and holistic manner.

The Facility’s simulation centre makes it possible to visualise a network, to apply different what-if scenarios and to see the possible social and physical impacts of any proposal. For example, SMART can use real-time models to simulate a remote mine operation, including the interdependencies of its port and transport needs, skilled labour requirements, housing needs for its workforce and internal metallurgical processing requirements. This will help to identify bottlenecks and optimise productivity.

As part of its mission, SMART brings a holistic approach to infrastructure through the analysis of geospatial, physical and temporal data, along with seeking out economic, environmental and social impact.

SMART is defining a new area of research called ‘integrated infrastructure planning and management’. This research is being built on a wide range of national and international partnerships with government, industry and research institutions.

For more information, see smart.uow.edu.au

MAJOR PROJECTS
SMART is engaged in delivering real-life infrastructure solutions with a variety of partners. Examples of major projects are:

INTEGRATED INFRASTRUCTURE PLANNING ANALYTICAL TOOLS
Holistic analysis of liveability issues in a complex context, analysing factors including income levels, access to shopping facilities, transport access, housing availability and access to education and recreational facilities, with emphasis on these factors’ impact on population growth and preferred transport options.

RAIL MODELLING AND SIMULATION
Developing modelling solutions to improve fleet efficiency. Tools include graphical representations of extrapolated logistics scenarios to rapidly visualise the context and effect of factors including queue build-up, stockpiles, breakdowns, scheduling scenarios and throughputs.

REAL-TIME INFRASTRUCTURE RESILIENCE MONITORING
Real-time national monitoring of landslide areas, infrastructure assets and weather conditions to measure and predict risk to life, infrastructure and property.

COMPARATIVE PUBLIC TRANSPORT PATRONAGE ANALYSIS
Strategic research and analysis of global lessons in transformational growth in public transport patronage, with particular interest in successful integration of multi-modal solutions, design of governance models and cultural change issues associated with consolidating public transport authority.
DOCTORAL STUDIES AND SMART

PhD candidates may undertake their research within SMART if their topic falls within the above themes. Candidates can also work under the auspices of SMART when they have two supervisors from different faculties engaged in activities with SMART. Specific research topics may include:

Model Based System Engineering for Infrastructure Projects
- Systems Engineering
- Agent Based Modelling for Contract Design and Execution
- Behavioural Sciences
- Decision Sciences
- Land-use Planning

Semi-empirical Approach to Validate Massive Social Simulations
- Quantitative Sociology
- Social Modelling

Developing a Semantic Framework for Integrated Infrastructure Analytics
- Computational Semantics
- Computational Semiotics

Auditing, Reporting, Transparency, Risk Allocation and Process Learning
- Public Sector Auditing and Major Infrastructure Project Reporting
- Public Policy, Public Sector Agency Program and Infrastructure
- Organisational Structure, Learning and Change Relating to Major Infrastructure Projects
- Behavioural Information Processing and Decision-Making relating to Major Infrastructure Projects
- Commerce and Sociology of Contracting over Extended Time Horizons for Major Infrastructure Projects
- Risk Allocation and Performance in Primary (Tender) and Secondary Markets for Physical and Financial Assets
- Principles of People, Structure/Process and Task Change for Major Infrastructure Projects

Ensuring Efficient Investment in Infrastructure
- Operational Research
- Public Economics
- Economics of Regulation
- Applied Microeconomics
- Urban Economics
- Industrial Organisation
- Cost Benefit Analysis

Postgraduate student enquiries can be made to smart-facility@uow.edu.au
GLOSSARY

ENTRY REQUIREMENTS
The details under “Entry Requirements” in the course details section indicate the minimum academic entry requirements for each course. Note these are indicative only and do not guarantee a place in the course. These requirements may be amended at any time. All academic studies you have undertaken will be taken into account when considering your application.

All students must also meet the English language requirements shown on page 80.

Further details can be found at uow.edu.au/future/international/apply/english

Following is an explanation of some important terms used in the entry requirements:

DURATION
The minimum length required for qualifications or work experience, and is full-time duration only.

EQUIVALENT AVERAGE MARK
Where shown, a percentage mark relates to the requirement from an Australian degree. If not shown, the actual percentage mark will not usually be lower than 50%. While similar grading systems are used around the world, many countries have different systems to those used in Australia (where the pass mark is commonly 50%).

PROFESSIONAL EXPERIENCE OR WORK EXPERIENCE
Employment in a position relevant either to your previous academic qualifications or to the course applied for. The experience should be at a senior level (for example as a manager or supervisor) or in a professional discipline with a considerable level of responsibility in employment (for example engineers, accountants, health professionals, marketing executives). This information should be provided in the Employment Details section of the application form and be supported with documentary evidence, including a detailed curriculum vitae and referee letters from previous employers.

PROFESSIONAL RECOGNITION
UOW courses are recognised internationally and in Australia through accreditation by professional organisations, and some of these are included under the heading “professional recognition” in the course listing. In addition to completing an approved program of subjects within an accredited course, additional criteria may need to be fulfilled to meet the membership requirements for some organisations. For example, completion of a period of professional experience, or independent assessment of previous qualifications or work experience. It is your responsibility to check with the relevant accrediting authority for full details of their requirements.

RECOGNISED BACHELOR DEGREE
The qualification must be assessed as equivalent to an Australian Bachelor degree and from an institution recognised by UOW. These assessments will take into account recommendations from the Australian Government’s, National Office of Overseas Skills Recognition (NOOSR), other international assessment authorities and the University’s own determinations.

RELEVANT
Used with reference to tertiary qualifications and work experience, “relevant” means in an area related to the specific course applied for.

TERTIARY QUALIFICATIONS
Used to refer to academic qualifications completed after high school, at an institution recognised by UOW, other than Bachelor or Masters degrees.

WEIGHTED AVERAGE MARK (WAM)
An average of individual subject marks weighted according to the level of the subject: where, for example, the mark for a 300-level (third-year) subject will contribute more to the average than a 100-level (first-year) subject. It is expressed as a score out of 100.

DELIVERY MODES

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Campus</td>
<td>Acceptable for international students studying in Australia on a student visa. At least 75% of classes are delivered face-to-face and includes weekly lectures and/or tutorials.</td>
</tr>
<tr>
<td>Flexible*</td>
<td>Acceptable for international students studying in Australia on a student visa subject to making formalised arrangements for regular compulsory face-to-face component. A combination of online and face-to-face delivery, where the face-to-face component is compulsory.</td>
</tr>
<tr>
<td>Distance/Online*</td>
<td>Not available for international students studying in Australia on a student visa. Distance or online learning is a study in which the teacher and student are separated. Course content, class discussion and teacher interaction are delivered online.</td>
</tr>
<tr>
<td>Block Delivery</td>
<td>Not available for international students studying in Australia on a student visa. Students study on a part-time basis, and are required to be on campus for periods of intensive teaching. Students undertake other course components independently.</td>
</tr>
</tbody>
</table>

*For flexible and distance delivery modes, international students in Australia on a student visa who are studying onshore cannot enrol in more than 25% of their total course by distance as per ESOS legislation.
**ENGLISH LANGUAGE REQUIREMENTS**

All non-English speaking students are required to provide evidence of satisfying English language requirements. For full details go to [uow.edu.au/future/international/apply/english](http://uow.edu.au/future/international/apply/english).

Results in the major international English language tests are accepted, including IELTS, TOEFL, Pearsons, Cambridge as well as results in UOW College direct entry assessment, where the test has been taken within two years of commencement of study at UOW.

The University’s English language requirements may be satisfied by successful completion of full-time secondary or tertiary studies, or equivalent qualification, with a duration of at least two years from an approved institution where:

- the language of instruction was English; and
- the institution is located in a country where the official language is English

OR

- where the sole language of instruction and assessment was English, and where
- academic transcripts and an official letter from the institution certifying that English was the sole language of instruction and assessment can be provided.

Students who have completed schooling in Malaysia, Hong Kong and Singapore, or hold examination results in high school English subjects in some European and Scandinavian countries, may also be considered as having met UOW’s English language requirements.

Students who have completed an English language course at an approved provider may also be considered for entry. Check with UniAdvice to see if your school is recognised.

**ENGLISH LANGUAGE REQUIREMENTS BY FACULTY AND COURSE**

**CREATIVE ARTS, ENGINEERING*, INFORMATICS, SCIENCE*, MARITIME POLICY/STUDIES**

<table>
<thead>
<tr>
<th>Test</th>
<th>Required score, plus …</th>
<th>R</th>
<th>W</th>
<th>L</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS (Academic)</td>
<td>Overall score of 6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>TOEFL (Internet-based)</td>
<td>79</td>
<td>18</td>
<td>20</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>UOW College – English for Tertiary Studies</td>
<td>Pass</td>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
For Maritime Policy and Maritime Studies, 5.5 in listening and speaking is required.

* for Engineering and Science 6.0 is required in all IELTS band scores.

**ARTS, BUSINESS AND COMMERCE*, EDUCATION, HEALTH AND BEHAVIOURAL SCIENCES**

<table>
<thead>
<tr>
<th>Test</th>
<th>Required score, plus …</th>
<th>R</th>
<th>W</th>
<th>L</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS (Academic)</td>
<td>Overall score of 6.5</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>TOEFL (Internet-based)</td>
<td>88</td>
<td>18</td>
<td>20</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>UOW College – English for Tertiary Studies</td>
<td>Credit</td>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*for the Graduate Certificate in Commerce and Graduate Certificate in Business, a score of IELTS 6.0, with band scores of 6.0 in reading and writing, and 5.0 in listening and speaking are required

NOTE:
All Arts Higher Degree Research programs require a writing band score of 6.5 in IELTS.
Master of Science (Nutrition & Dietetics) and Master of Clinical Exercise Physiology require 6.5 in all band scores.
Transnational Crime Prevention coursework programs require IELTS 6.5 in reading and writing, or equivalent.

**JOURNALISM, LAW AND GRADUATE DIPLOMA IN EDUCATION**

<table>
<thead>
<tr>
<th>Test</th>
<th>Required score, plus …</th>
<th>R</th>
<th>W</th>
<th>L</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS (Academic)</td>
<td>Overall score of 7.0</td>
<td>7.0</td>
<td>7.0</td>
<td>7.0</td>
<td>7.0</td>
</tr>
<tr>
<td>TOEFL (Internet-based)</td>
<td>100</td>
<td>20</td>
<td>22</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>UOW College – English for Tertiary Studies</td>
<td>Distinction</td>
<td>Not Applicable</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**GRADUATE SCHOOL OF MEDICINE, CLINICAL PSYCHOLOGY**

<table>
<thead>
<tr>
<th>Test</th>
<th>Required score, plus …</th>
<th>R</th>
<th>W</th>
<th>L</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS (Academic)</td>
<td>Overall score of 7.0</td>
<td>7.0</td>
<td>7.0</td>
<td>7.0</td>
<td>7.0</td>
</tr>
</tbody>
</table>
ENGLISH LANGUAGE PREPARATION PROGRAMS THROUGH UOW COLLEGE

Applicants who do not meet the required English language level for direct entry can still be made a conditional offer of admission, and are offered a course offer package containing an English language course at UOW College.

Located on UOW’s main campus, UOW College offers direct entry English language programs (English for Tertiary Studies and English for Business; 6, 12 or 18 weeks) without the need to re-sit IELTS or TOEFL, as well as longer-term English for Academic Purposes programs (of up to 48 weeks), IELTS preparation courses (6 or 12 weeks) and an Introduction to Academic Studies (IAS) study skills focused course.

Students can also take a free online English language placement test to estimate the length of course they require.

UOW COLLEGE – ENGLISH COURSE LENGTH ESTIMATOR

<table>
<thead>
<tr>
<th>Level</th>
<th>IELTS</th>
<th>TOEFL (Internet)</th>
<th>IELTS 5.0</th>
<th>IELTS 5.5</th>
<th>IELTS 6.0</th>
<th>IELTS 6.5</th>
<th>IELTS 7.0</th>
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</thead>
<tbody>
<tr>
<td>Advanced</td>
<td>6.5</td>
<td>88</td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>79</td>
<td></td>
<td></td>
<td>6 *</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>5.5</td>
<td>70</td>
<td></td>
<td>6 #</td>
<td>12</td>
<td>18</td>
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<tr>
<td>Intermediate</td>
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<td></td>
<td>4.5</td>
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<td>12</td>
<td>18</td>
<td>24</td>
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<td>36</td>
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<tr>
<td>Lower intermediate</td>
<td>4</td>
<td>45</td>
<td>18</td>
<td>24</td>
<td>30</td>
<td>36</td>
<td>42</td>
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<tr>
<td></td>
<td>3.5</td>
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<td>24</td>
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<td>36</td>
<td>42</td>
<td>48</td>
</tr>
<tr>
<td>Elementary</td>
<td>3</td>
<td>24</td>
<td>30</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>48+</td>
</tr>
</tbody>
</table>

* for students with 6.0 overall, but 5.5 in either reading or writing.  # for students with 5.5 overall but less than 5 in reading or writing.

DIRECT ENTRY ENGLISH COURSES

TO PREPARE FOR ENTRY TO UOW COURSES AT WOLLONGONG CAMPUS

For entry to UOW session | Length of study required | English course dates
-------------------------|--------------------------|---------------------------
Autumn 2012 (session commences 27 February) | 6 Weeks | 3 January – 10 February 2012
| 24 Weeks | 3 January – 22 June 2012
| 18 Weeks | 20 February – 22 June 2012
| 12 Weeks | 2 April – 22 June 2012
| 6 Weeks | 14 May – 22 June 2012

Spring 2012 (session commences 23 July) | 42 Weeks | 2 April 2012 – 15 February 2013
| 36 Weeks | 14 May 2012 – 15 February 2013
| 30 Weeks | 2 July 2012 – 15 February 2013
| 24 Weeks | 13 August 2012 – 15 February 2013
| 18 Weeks | 24 September 2012 – 15 February 2013
| 12 Weeks | 5 November 2012 – 15 February 2013
| 6 Weeks | 7 January 2013 – 15 February 2013

Autumn 2013 (session commences end February)

ENGLISH FOR BUSINESS COURSES

TO PREPARE FOR ENTRY TO SBS COURSES AT WOLLONGONG INNOVATION CAMPUS

For entry to UOW session | Length of study offered | Course dates
-------------------------|------------------------|---------------------------
Trimester 2 2012 (commencing 7 May 2012) | 12 weeks | 20 February – 4 May 2012
Trimester 3 2012 (commencing 13 August 2012) | 12 weeks | 14 May – 4 August 2012

ENGLISH COURSES TO PREPARE FOR ENTRY TO SBS COURSES AT SYDNEY CAMPUS

SBS and UOW recognise a number of English language pathway courses offered by English language centres in Sydney.

Further details on English Programs can be found at www.uowcollege.edu.au/english_programs

Information on how to apply for UOW College can be found at www.uowcollege.edu.au/international_students/how_to_apply
## IMPORTANT DATES

### WOLLONGONG CAMPUS

#### SPRING SESSION – 2012
- Enrolment/Orientation: 16 July
- Lectures Commence: 23 July
- End of Session: 15 November

#### SUMMER SESSION – 2012/2013
- Lectures Commence: 26 November
- End of Session: 1 February

#### AUTUMN – 2013
- Enrolment/Orientation: 18 February
- Lectures Commence: 4 March
- End of Session: 27 June

#### SPRING SESSION – 2013
- Enrolment/Orientation: 22 July
- Lectures Commence: 29 July
- End of Session: 21 November

### SYDNEY BUSINESS SCHOOL – SYDNEY AND WOLLONGONG INNOVATION CAMPUS

#### TRIMESTER 1 – 2012
- Enrolment/Orientation: 24 – 25 January
- Lectures Commence: 30 January
- End of Session: 28 April

#### TRIMESTER 2 – 2012
- Enrolment/Orientation: 3 – 4 May
- Lectures Commence: 7 May
- End of Session: 4 August

#### TRIMESTER 3 – 2012
- Enrolment/Orientation: 9 – 10 August
- Lectures Commence: 13 August
- End of Session: 10 November

#### TRIMESTER 1 – 2013
- Enrolment/Orientation: 31 January – 1 February
- Lectures Commence: 4 February
- End of Session: 4 May

#### TRIMESTER 2 – 2013
- Enrolment/Orientation: 9 – 10 May
- Lectures Commence: 13 May
- End of Session: 10 August

#### TRIMESTER 3 – 2013
- Enrolment/Orientation: 15 – 16 August
- Lectures Commence: 18 August
- End of Session: 16 November

### CLOSING DATES

#### UOW AUTUMN & SPRING APPLICATIONS

For most courses, applications can be submitted at any time throughout the year. However, applicants need to allow time for their application to be assessed, to apply for a visa (which can take several months in some countries) and to include any period of English language study they might require. It is recommended that applications are lodged by the dates shown below:

#### AUTUMN SESSION
- **30 September** – Clinical Exercise Physiology, Nutrition/Dietetics and Exercise Rehabilitation coursework degrees.
- **31 October** – Creative Arts, Education and Health & Behavioural Sciences coursework degrees (excluding Clinical Exercise Physiology, Nutrition/Dietetics and Exercise Rehabilitation degrees).
- **31 January (for Autumn Session of the same year)** – All other coursework degrees not listed above.

#### SPRING SESSION
- **1 June** – Coursework degrees

#### SCHOLARSHIP APPLICATIONS

Applications for UOW Research Scholarships close on:
- **17 October** – for Scholarships commencing Autumn Session (February)
- **12 March** – for Scholarships commencing Spring Session (July)

#### ACCOMMODATION APPLICATIONS

Applications for university residences must be made online at [www.apply-accom.uow.edu.au](http://www.apply-accom.uow.edu.au)

In order to secure a place in the residences, application should be made as early as possible.
FEES & SCHOLARSHIPS

FEES
Information on current tuition fees is available at uow.edu.au/future/international/apply/fees

The website also includes information on Overseas Students Health Cover (OSHC). It is a requirement of your student visa to purchase OSHC for the duration of your stay in Australia.

SCHOLARSHIPS
The main categories of scholarships available are:

RESEARCH SCHOLARSHIPS
Applications for International Postgraduate Research Scholarships (IPRS) and University Postgraduate Awards (UPA) close 17 October for Autumn (February) Session or 12 March for Spring (July) Session.

AUSTRALIAN GOVERNMENT SCHOLARSHIPS
UOW participates in the range of schemes funded by the Australian Government – including the Australia Awards; Endeavour Scholarships; Australian Development Scholarships (ADS); and Australian Leadership Awards.

Information about all of the above scholarships and other sources of funding can be accessed through the UOW Scholarships website:

uow.edu.au/future/international/apply/scholarships

At UOW, we strive to maintain our international student tuition fees at affordable levels. You will also find the cost of living in Wollongong considerably lower than Australian capital cities, particularly for accommodation and transport.

Page 16 shows you how affordable living in Wollongong is compared to other Australian cities.

HOW TO APPLY

COURSEWORK & RESEARCH DEGREES

APPLY ONLINE
apply.uow.edu

You can submit a secure application for coursework and research degrees (excluding Medicine) using UOWApplyOnline. There is no application fee for applying online.

FORM-BASED APPLICATIONS FOR COURSEWORK DEGREES
Coursework applications may be accepted using the form available for download at the following website – payment of a $75 fee must be included with the application:

uow.edu.au/future/international/apply

Research applications can only be made online (see above).

APPLYING FOR POSTGRADUATE COURSES IN CREATIVE ARTS
Entry into the Faculty of Creative Arts postgraduate courses is determined by assessment of an application, project proposal and if appropriate, a portfolio. Selected applicants are required to take part in an interview (via telephone if necessary).

In addition to completing an application, all Creative Arts applicants should provide the following:

- originals or certified copies of all academic transcripts
- an up-to-date curriculum vitae listing exhibitions, performances, publications, prizes, awards, research history and employment experience as appropriate
- the names and contact details of three professional and/or academic referees
- a brief description of work completed for previous undergraduate and postgraduate studies (including titles and one chapter excerpt of any theses completed).

All applicants (except Journalism) should also provide:

A project or research proposal of 500–1,000 words. The proposal should describe your intended creative/research work (including thesis title) within the context of your discipline and intended course of study. A summary of the concepts underpinning the creative work with in-text citations and a short bibliography should also be included.

Research applicants for the various disciplines should provide documentation and/or portfolio as outlined at:

uow.edu.au/crearts/futurepostgrad/UOW105359.html

Coursework applicants for the various disciplines should provide documentation and/or portfolio as outlined at:

uow.edu.au/crearts/futurepostgrad/UOW105353.html

FURTHER INFORMATION
More information is available on the UOW website:

Certification of Documents:
uow.edu.au/future/international/apply/how/certified

Offer, Acceptance & Payment:
uow.edu.au/future/international/accept

Privacy and Disclosure:
uow.edu.au/legal/privacy