UNSW AUSTRALIA

International Student Guide
Undergraduate 2014

Never Stand Still

WHERE
LEADERS
STUDY.

Welcome

CHOOSING WHICH UNIVERSITY TO ATTEND IS ONE OF THE MOST EXCITING BUT DIFFICULT DECISIONS THAT YOU AND YOUR FAMILY WILL MAKE.

As President and Vice-Chancellor of UNSW I take great pride in our achievements, particularly our status as one of the top 100 universities in the world, and Australia's premier university focused on science, technology, business and the professions.

Every day walking through our modern and cosmopolitan campus, I am inspired to see staff and students from 120 different countries, coming together to pursue their academic passions and to tackle some of the world's grand challenges through research on areas such as climate change, HIV, population ageing and developing innovative new technologies such as ultra-powerful quantum computers that will transform the way we work, and the ground breaking bionic eye which has the potential to give back to thousands the power of sight.

I believe there has never been a more exciting time to study at UNSW. In the last 12 months alone we have opened a new global centre of excellence for Sustainable Energy Research and our College of Fine Arts has undergone a A$58 million dollar facelift, cementing its reputation as Australia's leading school of art, design and digital media. We have expanded our on-campus accommodation, with the opening of state-of-the-art student apartments, the University Terraces and in 2014 we will also open new college accommodation.

By choosing UNSW you will be joining the brightest and best students from our local area. Surveys show that they go on to succeed in their chosen careers – consistently earning the highest graduate starting salaries. UNSW has also educated more industry CEOs than any other university in Australia. You will be joining a talented and highly driven student community.

I wish you well with your journey ahead and hope to welcome you to UNSW in 2014.

Frederick G Hilmer AO
President and Vice-Chancellor

GROUP OF EIGHT MEMBER

Arts and humanities

29, 33, 53, 63 Criminology
29, 63 Development Studies
35, 36 Education
29 English
29 Film Studies
63 Globalisation Studies
29 Humanities
29 History
29, 63 International Relations
31, 52 International Studies
29 Philosophy
63 Policy Studies
29, 63 Politics
30, 63 Social Science
63 Social Work
29, 54, 63 Sociology
29 Women's and Gender Studies

Built environment

26 Architectural Computing
26 Architecture
33 Building Construction Management and Property
34 Industrial Design
27 Interior Architecture
27 Landscape Architecture
59 Planning
42, 49 Surveying

Business

31 Accounting
26 Actuarial Studies
31 Business
31, 53, 61 Business Law
31 Business Economics
31, 46 Commerce
35 Econometrics
29, 31, 35, 63 Economics
31 Finance
31, 35 Financial Economics
29, 63 Human Resource Management
31, 52 Information Systems
29, 31, 63 International Business
31, 61 Management
31, 61 Marketing
31 Taxation

Computer technology

26 Architectural Computing
50 Computer Engineering
52 Computer Science
52 Information Systems
50 Information Technology
34 Interactive Media Design
51 Software Engineering

Creative Industries

55 Advertising
28 Animation
28 Ceramics
54 Communications
29 Creative Writing
29 Dance
33, 34 Design
33 Graphic/Media Design
34 Industrial Design
33 Jewellery
54 Journalism
29, 34 Media Arts
54 Media and Communication
58 Music
36 Music Education
32, 55 Public Relations
29 Theatre and Performance Studies
55 Video and Sound Production

Engineering

37 Aerospace Engineering
38 Biomedical Engineering
43 Ceramic Engineering
39 Chemical Engineering
39 Civil Engineering
50 Computer Engineering
40 Electrical Engineering
41 Environmental Engineering
42 GeoInformation Systems
43 Manufacturing Engineering
44 Mechanical Engineering
45 Mechatronic Engineering
43 Metallurgy
45 Mining Engineering
46 Naval Architecture
46 Petroleum Engineering
47 Photonic Engineering
51 Software Engineering
49 Telecommunications Engineering

Languages and cultural studies

29 Americas Studies
29 Asian Studies
29 Australian Studies
29, 53 Chinese Studies
29 European Studies
29 French Studies
29, 53 German Studies
29, 53 Hispanic Studies
29, 63 Indigenous Studies
29, 53 Indonesian Studies
29, 53 Japanese Studies
29, 53 Korean Studies
29 Linguistics
29, 53 Modern Languages

Legal studies

31, 53 Business Law
53 Jurisprudence
53 Law

Medicine and health science

60, 62 Anatomy
56 Exercise Physiology
60, 62 Genetics
57, 61 Immunology
60 Medical Microbiology
56 Medical Science
57 Medicinal Chemistry
56 Medicine
60 Neuroscience
58 Optometry
62, 64, 68 Pathology
62, 64, 68 Pharmacology
61 Physiology
56 Surgery
61 Vision Science

Natural sciences

60, 62 Biological Science
60 Biochemistry
38, 50 Bioinformatics
31, 60 Biotechnology
60, 62 Ecology
62 Geochemistry
62 Geology and Geosciences
60, 62 Marine Science
60 Meteorology
60, 62 Microbiology
60, 62 Molecular Biology
60 Physical Oceanography

Science

62 Advanced Science
30 Aviation
57, 60, 62 Chemistry
52 Computer Science
30 Flying
49, 60 Food Science and Technology
60 History and Philosophy of Science
41 Industrial Chemistry
60, 62 Mathematics
58 Nanotechnology
61, 62 Physics
29, 59, 62 Psychology
61 Statistics

Sustainability

26 Architecture
60, 62 Climate Science
36, 60, 62 Earth and Environmental Science
29, 36 Environmental Studies
59 Planning
48 Photovoltaics and Solar Energy
48 Renewable Energy Engineering

Visual arts

28 Art Education
27 Art Theory
28 Drawing
28 Fine Arts
28 Painting
28 Photography
28 Printmaking
28 Sculpture, Performance and Installation

Diploma of Professional Practice

59 To complement your studies you can complete a Diploma of Professional Practice to give you a competive edge in your career.

Contents

Educating the world's future leaders

ACROSS THE WORLD, UNSW IS RECOGNISED FOR OUR INNOVATIVE TEACHING AND CUTTING-EDGE RESEARCH. BEYOND THIS, WE ARE COMMITTED TO PREPARING THE NEXT GENERATION OF LEADERS FOR CAREER SUCCESS.

BY WORKING CLOSELY WITH INDUSTRY, BUSINESS AND PUBLIC RESEARCH BODIES HERE AND AROUND THE GLOBE, WE ENSURE OUR PROGRAMS ARE RELEVANT TO TODAY'S FAST-PACED AND EVER-CHANGING WORLD AND THE PEOPLE WHO WILL BE LEADING IT TOMORROW.

Some facts about UNSW

For a relatively young university, we have enjoyed enormous success. This includes:

- Becoming a top 100 university, ranking 85th overall in the 2012-13 *Times Higher Education World University Rankings* and a ranking in the top 100 universities for global reputation and academic prestige
- Ranking 52nd in the world in the 2012 *QS World University Rankings*
- Achieving membership of the prestigious Group of Eight (Go8) leading teaching and research universities in Australia
- Gaining membership of Universitas 21, a consortium of the world's leading research universities from Asia, Europe and North America
- Becoming the first university worldwide to be awarded a five star plus ranking by *QS World University Rankings*.

QS STARS™ RATED FOR EXCELLENCE 2013 PLUS

The best and brightest students

With eight faculties in Sydney, as well as our Canberra campus, we attract some of the most talented students from around Australia and internationally. This ensures we have one of Australia's most diverse student populations, welcoming 13,000 international students from more than 120 countries.

This diversity makes for a vibrant, cosmopolitan student experience, while our internationally focused curricula and extensive exchange programs ensure all students receive a truly global education.

Taking our graduates to the world

A degree from UNSW is recognised wherever you go in the world. And with one of Australia's largest international exchange programs, we offer our students the opportunity to study in the Asia-Pacific region, North America, South America, South Africa and Europe.

The recognition our graduates deserve

Ranked 35th in the world for employer reputation*, our international graduates have the highest median starting salaries and employment rates amongst the Australian Group of Eight universities**.

Having successfully studied at UNSW, many of our graduates have become leaders in government, business, research and industry. This is reflected in the fact that of Australia's top 50 companies, UNSW has educated the highest number of serving CEOs***.

Leaders in their field: our alumni

www.alumni.unsw.edu.au

With over 245,000 alumni based across more than 140 countries, the UNSW global alumni network is impressive. Many work in significant positions in commerce, government, medicine, and academic life.

Some of our most prominent alumni include award-winning animator, Philip To; Judge of the High Court of Hong Kong, His Honour Justice Barnabas Fung; Chairman and CEO of Boustead Singapore Limited, Fong Fui Wong; founder of ResMed, Dr Peter Farrell AM; and co-founder of the Octopus Group, Elaine Teh.

As an alumnus of UNSW, your relationship with the University continues in a variety of ways. This allows you to enhance your personal and professional network, and keeps you informed of developments at the University. And with networks in Australia, China, Hong Kong, Malaysia, Singapore, Thailand, Vietnam, the United Kingdom, United States and Indonesia, we offer you the opportunity to meet other alumni wherever you may be.

* 2012 *QS World University Rankings*
** 2011 *Australian Graduate Survey*; includes undergraduate and postgraduate international graduates
*** 2012 *Suncorp Banks Power Index*

The six-star energy rated Tyree Energy Technologies Building is the headquarters for the UNSW's cutting edge energy research.

UNSW: home of innovation

Every year, hundreds of thousands of old car tyres and discarded plastic shopping bags, that would otherwise go to landfill, are turned into steel. It's an ingenious innovation that saves money and reduces pressure on the environment.

It's just one of many innovations, inventions and research breakthroughs that originated at UNSW. Right now, UNSW scientists are developing bionic eyes, new skin care products, solar cell technology and life-saving virtual reality technology for the mining industry. They're pioneering research into earthquake response, cancer treatment and longer lasting batteries for medical products.

And you can be involved …

Pioneering innovation

www.nsinnovations.com.au

NewSouth Innovations (NSi) is at the heart of UNSW's research and innovation culture. Our goal is to transform our students' research into successful products that benefit the economy, society and future generations.

If you have a great idea and need help setting up your own business while you're studying, NSi should be your first point of contact. We will give you the opportunity to collaborate with some of the world's most successful companies. We can also provide specific help with:

- Assessing your idea and its market potential
- Protecting your idea, its confidentiality and Intellectual Property (IP) rights
- Accessing high quality IP for free … we call it 'Easy Access IP'
- Connecting with business, industry and government
- Meeting venture capitalists to discuss potential funding.

Scientific discovery is in our DNA

UNSW was established in 1949 with a single-minded scientific focus. While our curriculum has broadened since, the desire to innovate, uncover new ways of doing things and generally improve the world we will live in still drives us today. In fact, in the *Excellence in Research for Australia* report, UNSW was ranked at, above, or well above world standard in all fields assessed.

We conduct research across a wide range of areas, but we invest considerable resources in particular areas where we think we can make a difference.

UNSW is an acknowledged world leader in photovoltaics, HIV/AIDS research and quantum computing. Some of our other research strengths include biomedical sciences, water, environment and sustainability, next generation materials and technologies, social policy, government and health policy, information and communications technology, robotics and devices, business, law and economics.

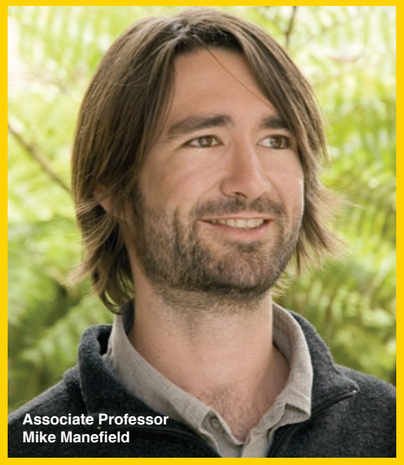
We are also home to a number of national centres for research excellence and we are affiliated with many of Australia's outstanding research institutes.

Working with the business community

We recognise the importance of industry partnerships in bringing our ideas to the broader community. For example, the process of turning plastics and rubber into 'green steel' was commercialised in partnership with Onesteel.

It's no coincidence that UNSW is the highest funded university by Australian industry partners through Linkage Project grants.

Scan to watch the 2012 UNSW Innovation Awards winners.



Associate Professor Mike Manefield

We don't just encourage innovation, we reward it
www.nsinnovations.com.au/unsw-innovation-awards

We recognise the outstanding innovation of our students and staff in their fields with the annual UNSW Innovation Awards. 2012 winners include:

- The team, led by Associate Professor Mike Manefield won the overall Innovation Award for cultivating bacteria that breaks down industrial toxins in contaminated groundwater.
- Tanvir Rahman and Torsten Lehmann, winners of the 2012 Student Early Innovation Award, created the world's first 10 bit cryogenic converter, which would be the core part of a silicon quantum computer controller circuit.
- Alex Metelerkamp won best new student invention for a device that calculates the distance travelled by a vehicle and automatically reports the information to a home base.
- A team led by Professor Bill Walsh won best new staff invention for a device that helps bone integrate on a host bone surface.
- Professor Jun Wang won the Advanced Innovation Award – team category for work on the development of an innovative combined laser-waterjet manufacturing technology.
- Professor Francois Ladouceur led a team developing a new class of optical sensors that can be fitted to optical fibres and distributed over large areas to form sensor arrays.
- Scientia Professor Veena Sahajwalla and her team won the prize for Innovation Excellence for taking the polymer injection technology in green steel to international markets from concept to commercialisation within a decade.

Student life and learning

STUDYING AT UNSW IS MORE THAN JUST GETTING A UNIVERSITY EDUCATION. IT'S ABOUT GAINING THE SKILLS AND EXPERIENCES YOU WILL NEED TO BE A LEADER IN YOUR FIELD. HERE ARE SOME OF THE LEARNING FACILITIES AND OPPORTUNITIES AVAILABLE TO OUR STUDENTS.

Student life and learning
www.studentlifelearning.unsw.edu.au

Student Life and Learning offers a variety of academic, personal and career-related services to ensure you get the most out of your study at UNSW.

You'll discover ways to develop better study habits, improve your academic performance, learn leadership skills, and maintain a healthy work/life/study balance. We can also help you find work and internship opportunities both on- and off-campus.

For the full range of services offered, visit the Student Life and Learning website or download our Uni-Verse app:
www.studentlifelearning.unsw.edu.au/uni-verse

Student Development International: Services for international students (Kensington campus)
www.internationalstudent.unsw.edu.au

We know that moving to a new country is a new challenge. Our role is to make your transition into Australian life and study that little bit easier.

- We will pick you up from the airport when you arrive and transport you to the our Welcome Centre at the Kensington campus (bookings are essential). Accommodation assistance is also available.
- You will be introduced to the University through our cultural mentors and international student orientation program, Step Up. Step Up covers topics like cultural transition, how to get the most out of learning in Australia, time management and career planning.
- You can get involved in our fun social activities and make new friends.
- You can sign up for our language and cultural transition programs.
- When you need personalised advice International Student Advisers are available (individual consultations are confidential).

UNSW Careers and Employment
www.careers.unsw.edu.au

Whether you're searching for part-time work while you study, or looking ahead to your postgraduate career, the Careers and Employment Office can help, with a range of services including:

- The Careers Online job vacancy website (listing part-time, casual, vacation and graduate positions)
- Careers development workshops, covering job search, career planning, resume and cover letter writing and interview skills
- One-on-one appointments with a career consultant to help you with career management and job applications
- Career expos and employer information sessions
- The International Employment program, linking UNSW graduates with international employers.

Some of the services specific to international students include:

- The UNSW Professional Development Program, offering employment skills training and internship opportunities at UNSW
- Workshops covering a range of topics such as preparing for the Australian workplace, how to find part-time and casual work and networking

All services are free of charge.

Want to be successful in your career? Scan to watch a fun video on how UNSW Careers and Employment has helped students achieve their career goals.

The library
www.library.unsw.edu.au

2.7 million items, 100,000 e-journal subscriptions and 250,000 e-book titles; it's not surprising that the UNSW Library is one of the biggest, and best, university libraries in Australia.

But great libraries are about more than just big numbers. We are committed to providing a first-rate study environment, with group study rooms, media booths, dedicated postgraduate spaces and informal lounge areas, all with access to the latest technology.

The Library is split over three locations: the Main Library and the Law Library on the Kensington Campus and the COFA Library at Paddington.

The Learning Centre
www.lc.unsw.edu.au

The Learning Centre is the place to come when you need assistance with your studies. We offer a range of support services, like academic skills workshops, academic English workshops, online study guides, discipline-based learning, language programs and one-on-one consultations. All services are free of charge and individual consultations are confidential.

Counselling and psychological services
www.counselling.unsw.edu.au

Counselling and Psychological Services provides free and confidential psychology consultations to all UNSW students. Our counsellors are experienced registered psychologists who understand the issues facing university students.

In particular, counsellors can help international students adapt to cultural and educational differences and become more confident in pursuing career and life experiences.

The Hub
www.thehub.unsw.edu.au

The Hub is a shared space where our students can engage in study and group work activities, use meeting rooms for group study purposes and catch up with friends. Working space is provided for interns, social work students on placement and those working on joint staff/student projects. In the Hub's chill out zone, you can relax in a cosy space with a book exchange service, chilled music, bean bags and comfy couches. Our quiet study space is also a great area to catch up on your studies in a wireless environment.

The Hub is home to our team of Student Participation Advisors who provide advice, support and opportunities available on campus. These services are free of charge, confidential and professional.

Life on campus

Arc@UNSW
www.arc.unsw.edu.au
Facebook: ArcUNSW

Arc is the student organisation here at UNSW. What does that mean? It means we're a group run by students to provide students like you with the best uni life possible.

Whether you want to make friends, have fun, gain experiences or get ahead, we provide access to clubs and societies, events and parties, volunteering programs, internships, legal and advocacy for visa and employment issues, discounts and lots more!

The world on campus
www.arc.unsw.edu.au/clubs

Arc runs over 200 clubs and societies each with its own interest area, including hobbies, sports, areas of study, nationalities and more. Joining a club is the best way to meet people who share your interests and make friends in the campus community.

As an international student, joining a student association could also be a great way to settle in to life at UNSW. There are also over 20 international societies, representing countries and cultures from all corners of the globe. Visit the website for a full list.

Sport at UNSW and recreation
www.sportandrec.unsw.edu.au

Staying active while you're studying is easy – and affordable – at UNSW. We have more than 30 different clubs covering all kinds of sports, activities and levels. So whether you're a competition-level swimmer or a novice tennis player, there's bound to be something for you.

UNSW Fitness and Aquatic Centre
www.ymcansw.org.au/centre/unsw

If you're simply wanting to get fit, try out the newly upgraded Fitness and Aquatic Centre. There is a range of learn to swim, group fitness, personal training and gym floor classes available. Some of the other exciting features include:

· State-of-the art cardio equipment
· New strength training zone
· Indoor swimming pool

Banking and postal services
When it comes to transferring funds or posting a parcel, it's nice to be able to do everything on campus. There are two banks (Commonwealth Bank and ANZ Bank) and a credit union (Catalyst) on the Kensington campus, with 24-hour ATMs. They can all help you transfer funds from any major bank in the world, within 24 hours. The Post Office is on the Kensington upper campus.

Healthcare
www.healthservices.unsw.edu.au

Medical, dental and physiotherapy services are all available on campus at UNSW. There are also a number of medical practices, as well as public and private hospitals, in the suburbs surrounding the University.

Childcare
www.earlyyears.unsw.edu.au

If you plan to come to Australia with young children, it's important to consider the availability and cost of childcare. Full-time care is difficult to find, especially for children under three years of age. Costs can range from A$75 to A$125 a day.

The UNSW Kensington campus has four childcare centres, however the waiting list for places is long, so we recommend you apply as soon as possible.

Religious facilities
http://studentlife.unsw.edu.au/life/religious-centre

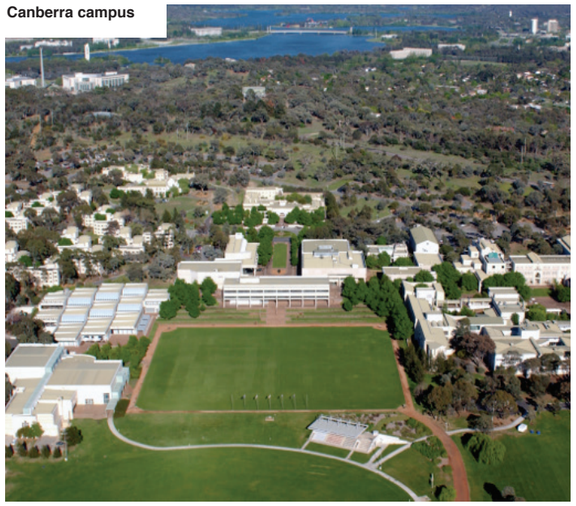
There is a range of religious facilities at UNSW, catering to most major religions and available to all students and staff.

- The Religious Centre on the Kensington campus is attended by chaplains from Buddhist, Anglican, Catholic, Coptic, Greek Orthodox, Pentecostal, Presbyterian and Uniting faiths. They conduct regular worship services, Bible studies, prayer meetings and offer spiritual counselling
- The Islamic Society has an Imam in attendance with meeting and prayer rooms available for Muslim students
- There is a Jewish Chaplain on campus
- There are a number of religious societies on campus, including the Coptic Society, Ba'hai Society, Catholic Asian Students Association, Chinese Christian Fellowship and the Pragathi Hindu Society

Kensington campus

Paddington campus

Canberra campus



Kensington campus
Kensington is our main campus and the home of seven faculties: Arts and Social Sciences, The Australian School of Business, Built Environment, Engineering, Law, Medicine and Science.

We are proud of the campus's 64 year history and we are constantly looking to the future. The campus is defined by state-of-the-art buildings, superb facilities and a reputation for teaching and research excellence.

Set on extensive grounds in the inner south-east of Sydney, Kensington is close to everything. Step on a bus and you can be in the city, the Central Railway Station, the beach or the airport within 15 minutes.

Paddington (COFA) campus
Recently redeveloped to incorporate a world-class art and design gallery, computer labs and a suite of fine art and design studios, COFA has reinforced its reputation as the leading art, design and media school in Australia.

Paddington is 10 minutes by bus from our main Kensington campus and just down the road from the emerging IT and design hubs in Surry Hills and East Sydney.

Canberra campus
Located at the Australian Defence Force Academy, our Canberra campus provides undergraduate education for future leaders of the Australian Defence Force and research opportunities for international students.

The student-teacher ratio here is the lowest of any university in the country and our academic staff are amongst the best in their field.

Just a few kilometres from the centre of Canberra, the campus has a comprehensive library, a media resources service and the latest technology facilities.

Facilities and major developments
www.facilities.unsw.edu.au/campus-development

Great universities have great facilities. We regularly upgrade our campuses so we can continue to deliver the best teaching and learning environments in Australia.

Some of our recent development projects include:

- The six-star, A$125 million Tyree Energy Technologies Building, the headquarters for all energy-related research at UNSW
- The Lowy Cancer Research Centre, one of the largest dedicated research facilities in Australia and the first to unite adult and childhood cancer researchers in the one space
- The A$146 million expansion and redevelopment of the Wallace Wurth Building (due for completion in 2013-14), the home of UNSW Medicine and the Kirby Institute
- The A$56 million redevelopment of our art, design and media school, COFA
- The expansion of our residential colleges on our Kensington campus (due for completion in 2014) increasing our on-campus population to more than 5,000 students

We are also expanding student services – shopping precincts, study spaces, sporting areas and cultural facilities – to create convenient, vibrant places for students to study and socialise.

Living in Sydney

SYDNEY'S POPULATION

4.5 million

AUSTRALIA'S LARGEST AND MOST COSMOPOLITAN CITY

AVERAGE TEMPERATURE

17°C - 26°C

WWW.CITYOFSYDNEY.NSW.GOV.AU

Australia's largest and most dynamic city, Sydney is a beautiful, vibrant and ever changing metropolis. Ranked by *The Economist's Global Livability Report* 2011 as one of the world's most livable cities, Sydneysiders enjoy a lifestyle that is unlike any other city in the world.

Located on the south-east coast of Australia, Sydney is the gateway to Australia and home to over 4.5 million people.

A city of the world
Sydney is one of the world's most multicultural cities. Here you can experience the food, entertainment and customs of many cultures. And because of its diverse cultural background, Australians are very accepting of the cultures of others. In fact, over 50% of Sydney residents today were born outside Australia or have at least one parent born overseas.

Sydney's enviable lifestyle
Sydney's residents and visitors delight in a healthy outdoor lifestyle in a city surrounded by pristine sandy beaches, national parks and mountain ranges. And with a warm and sunny climate, you can enjoy outdoor activities such as swimming, hiking and camping.

Beyond the great outdoors, Sydney hosts hundreds of major cultural and sporting events each year. Combine this with thousands of eateries, cafés and restaurants from many different cultures, as well as fantastic shopping, weekly markets, and an exciting and diverse nightlife, and you'll quickly find that living in Sydney is a unique experience.

Making the most of Sydney's mild climate
There are four seasons in Sydney. Summer runs from December to February, autumn from March to May, winter from June to August, and spring from September to November. January and February are the hottest months, while Sydney's winters are mild.

We understand that moving to a new country can be a daunting experience. So on this page, we've provided you with some practical information that will help make your daily life in Sydney easier.

Part-time and vacation work
As an international student, Australian immigration regulations allow you to work up to 40 hours per fortnight during semester, and full time during university vacations. It's important to note that you're not permitted to work until you have commenced your studies.

There are many ways to find casual and part-time work. Look in local newspapers, ask your friends, or enquire at the University Careers and Employment Office. You can also look online at www.careers.unsw.edu.au

Keep in mind that as you might not be able to find a suitable job, we advise you not to plan your study budget around finding work for the maximum allowable hours.

Public transport
The most popular and convenient way to travel to UNSW is on modern public buses. Regular services connect UNSW with all major transport hubs, including Sydney's Central railway station, which is approximately 15 minutes by bus from the University.

From Central station, you can travel across much of the Sydney metropolitan area, country NSW and interstate on an extensive train network. And with construction due to begin on a light rail line from our Kensington campus to the city via Central railway station from 2014, students will soon have access to even more transport options.

As a full fee paying international student, you may be eligible for concession travel on selected trains, buses, ferries and rail in the greater Sydney metropolitan area.

Food and shopping
www.facilities.unsw.edu.au/Maps/pdf/Kensington_Retail_Outlets.pdf

Sydney is famous for its vibrant food scene. And in the suburbs surrounding UNSW, there are many reasonably priced, good quality restaurants, cafés and shops selling food from around the world. Halal meat is readily available at butcher shops near our Kensington campus.

With our range of on campus cafés and take-away food outlets, you won't have to travel far to find something to satisfy your taste – whether it's sushi, croissants and coffee, vegetarian food, laksa or noodles.

You will also find food, clothing, pharmaceuticals, books and stationery in the shops on campus and in nearby retail areas.

Finding a place to live

STUDENTS AT UNSW HAVE A NUMBER OF ACCOMMODATION OPTIONS AVAILABLE TO THEM. THESE RANGE FROM ON AND OFF CAMPUS UNIVERSITY ACCOMMODATION, TO PRIVATE ACCOMMODATION LIKE HOUSES, APARTMENTS AND ROOMING HOUSES.

Timing your arrival
Living in Sydney will be a big change – if you do not have a confirmed place on campus we recommend you arrive three to four weeks before classes start. This will give you time to look for accommodation, settle in and attend university orientation sessions.

If you require temporary accommodation when you first arrive, try to have this organised before landing in Australia. This might include private hotels, motels, hostels, lodges and furnished apartments ranging from A$45 to A$300 per day.

If you require assistance looking for accommodation Student Development International (SDI) may be able to help you find suitable accommodation through our International Student Housing Assistance program:
www.internationalstudent.unsw.edu.au

Independent accommodation options

Rental property
There are many properties available for rent in the suburbs surrounding the University. Most of these will be unfurnished and costs vary according to the number of bedrooms, condition and location of the flat, apartment or house.

When renting, you will usually sign a six or 12-month lease and pay rent in advance, plus a refundable security deposit called a 'bond'. Be aware that electricity, gas and telephone costs are additional, and you will have to factor in establishment costs including the purchase of furniture and equipment.

Sharing a house, flat or apartment will reduce your rent. Usually, you will have your own room, and will share the cost of the rent and other expenses like electricity with your housemates. You can expect to pay between A$150 to A$250 per week plus establishment costs in a shared house.

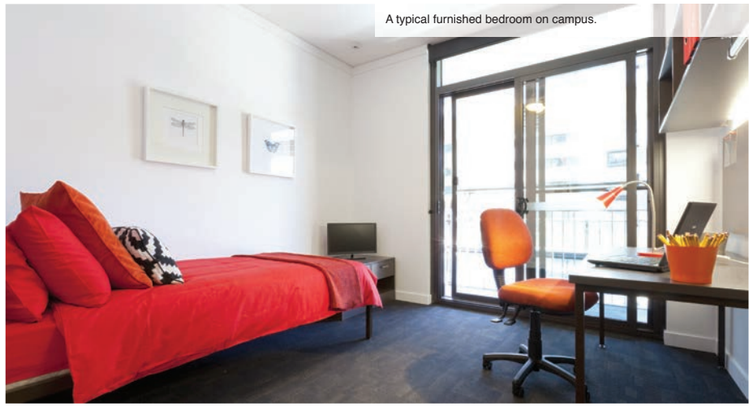
You might find cheaper accommodation in suburbs further away from our Kensington campus, but this may increase your travel time and transport costs.

Full board
This option usually gives you a furnished room and the use of facilities in the private home of a family or single person. Dinner and breakfast will be provided, and some may also include bed linen, laundry service and weekly room cleaning. Costs range from A$200 to A$280 per week.

Rooming houses
In this option meals are not provided and you will be responsible for providing your own food, as well as cooking, cleaning and doing your washing. Average cost is between A$140 to A$220 per week. Use of the telephone is an extra cost but expenses such as gas and electricity are usually included.

The Kesington Colleges redevelopment will be complete in 2014 offering nearly 700 new catered and self-catered beds on campus with the benefits of living in a supportive college environment.

A typical furnished bedroom on campus.



THE BENEFITS OF LIVING ON CAMPUS
When you are starting out at UNSW, we encourage you to live in university accommodation. This allows you to enjoy the benefits of living on or close to campus, including greater security, social opportunities, easy access to university facilities, and the convenience of moving directly into fully furnished accommodation.

University accommodation is very popular and fills quickly. Because of this you need to apply as early as possible.

Scan to watch a virtual walkthrough of the Kensington Colleges redevelopment.

At our University Terraces, students live in modern accommodation and have access to the diverse range of retail services available including a supermarket and eateries.

ON CAMPUS ACCOMMODATION
WWW.RC.UNSW.EDU.AU

With eight residential colleges and independent self-catered apartments, UNSW offers a wide range of accommodation.

You can find application information on accommodation at the UNSW Residential Communities website.

If university accommodation isn't available when you apply, Student Development International (SDI) may be able to help you find suitable accommodation through our International Student Housing Assistance program:
www.internationalstudent.unsw.edu.au

UNSW Residential Colleges
Residential colleges provide full board accommodation, including meals, activities and academic and pastoral support. There are common rooms for recreational activities and basic kitchen facilities for making tea, coffee and simple snacks.

Fees for new residents quoted below are for 2013, but colleges may also have additional fees not included in weekly board.

Kensington Colleges:
www.kensingtoncolleges.unsw.edu.au
Basser College, Goldstein College, Philip Baxter College
A$407 per week, male and female students

Creston College:
www.crestoncollege.edu.au
A$360 – $389 per week, female students only

International House:
www.ihunsw.edu.au
A$263 – $278 per week, male and female students (Except first year undergraduates)

New College:
www.newcollege.unsw.edu.au
A$425 – $494 per week, male and female students

Shalom College:
www.shalomcollege.unsw.edu.au
A$415 – A$495 multicultural, male and female students, meals included (kosher), all single rooms

Warrane College:
www.warrane.unsw.edu.au
A$424 per week, male students only

Self-catered apartments
UNSW apartments are independent, apartment-style accommodation for undergraduates, postgraduates, couples and families with children. Apartments are furnished and have kitchens for meal preparation.

University Terraces:
www.rc.unsw.edu.au/terraces.html
Studio, one and two bedroom apartments
A$329 – $380 per week

Barker Apartments:
www.rc.unsw.edu.au/apartments.html#Barker
Bedsit, one, two and five bedroom apartments
A$220 – $520 per week

Mulwarree Apartments:
www.rc.unsw.edu.au/apartments.html#Mulwarree
Five bedroom apartments
A$195 per week

High Street Apartments:
www.rc.unsw.edu.au/apartments.html#High
One and two bedroom apartments
A$345 – $470 per week

New College Village:
www.ncv.unsw.edu.au
Studio, five and six bedroom apartments
A$340 – $400 per week

UNSW Village:
www.unswvillage.com.au
Studio, one to eight bedroom apartments
A$244 – $369 per week

UniLodge:
www.unilodge.com.au/unilodge_sydney
Studio and multi-share apartments
A$374 - $465 per week

Arts and Social Sciences

T: +61 2 9385 3107
E: studyarts@unsw.edu.au
W: www.arts.unsw.edu.au

If you want to combine a great lifestyle with studies that you're passionate about, UNSW is the place to come.

Caroline, Sweden
Bachelor of Media in Communications and Journalism

STUDENT BODY

6,766 TOTAL STUDENTS
5,117 UNDERGRAD STUDENTS
2,086 TOTAL MALE STUDENTS
4,680 TOTAL FEMALE STUDENTS

SCHOOLS

4

- SCHOOL OF EDUCATION
- SCHOOL OF THE ARTS AND MEDIA
- SCHOOL OF HUMANITIES AND LANGUAGES
- SCHOOL OF SOCIAL SCIENCES

A PROFESSIONALLY RELEVANT ARTS AND SOCIAL SCIENCES DEGREE WILL ENCOURAGE YOU TO BE INTELLECTUALLY ADVENTUROUS, BOLDLY CREATIVE AND SOCIALLY ENGAGED.

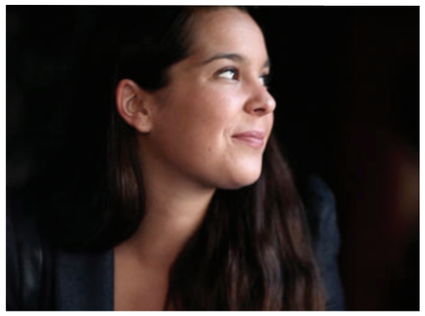
Ranked in the top 5 nationally and the top 50 globally, UNSW Arts and Social Sciences is a leader in arts, humanities and social sciences teaching and research. We're one of the largest faculties of our kind in Australia – a vibrant and diverse community of over 6,000 students from over 80 countries. Our world-class researchers, industry experts and innovative programs make our faculty an exciting place to discover new ways of thinking about the world and develop a professional career that makes the most of your passions, interests and talents.

Quality, choice and flexibility
Our range of more than 10 undergraduate degrees and over 35 options for majors and minors gives you a licence to explore across education, humanities, social sciences, media, creative and performing arts. You can extend your knowledge and career options by combining two different degrees, while our program flexibility allows you to include courses from other faculties. As a member of our community, you'll come to think critically and communicate in imaginative and articulate ways – skills that are sought after in any profession.

Real-world skills
At UNSW Arts and Social Sciences, our programs are specially designed to respond to the challenges of today and tomorrow. You will gain real-world experience within, or alongside, your degree to put the theory you've been learning into practice. Through our internships, exchanges, placements and projects you will graduate equipped with valuable knowledge and professional skills for a global world.

Australian School of Business

T: +61 2 9385 3507
E: www.businessinfo@unsw.edu.au
W: www.asb.unsw.edu.au



WANT TO HAVE AN AUSTRALIAN LEADING BUSINESS SCHOOL BRAND ON YOUR RESUME?

Our Successes, rankings and accreditation:
2013 – Awarded 5 stars for Graduate starting salaries, *Good Universities Guide*

2012 – Awarded 5 out of 5 rating in the *Excellence in Research in Australia* for: accounting, auditing and accountability, banking, finance and investment, business and management, econometrics and marketing,

2010 – Awarded accreditation by EQUIS European Foundation for Management Development for five years running

We offer you the opportunity to:
Be taught by our esteemed academics who have outstanding credentials.

Learn and engage with students who are the best and brightest.

Choose the areas you wish to study, as our degree programs are very flexible.

Listen to industry guest speakers and be exposed to exciting career initiatives.

Fast-track your degree by studying over the summer semester.

Become a global citizen – go on international exchange.

Be part of a global brand
We give you the skills, networks and knowledge to succeed in today's business world. Join our global family of over 66,000 alumni and over 6,000 undergraduate students today.

BE BOLD
Choose the Australian School of Business for your undergraduate study.
www.asb.unsw.edu.au/bebold

UNSW has given me so many opportunities.

Scan to watch Sam's story

Sam, USA
Bachelor of Commerce

STUDENT BODY

11,709 TOTAL STUDENTS
6,209 UNDERGRAD STUDENTS
6,196 TOTAL MALE STUDENTS
5,513 TOTAL FEMALE STUDENTS

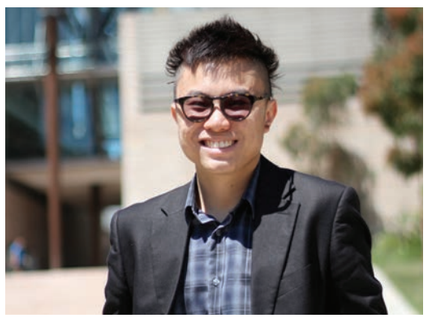
SCHOOLS

8

- SCHOOL OF ACCOUNTING
- SCHOOL OF BANKING AND FINANCE
- SCHOOL OF ECONOMICS
- SCHOOL OF INFORMATION SYSTEMS
- SCHOOL OF MANAGEMENT
- SCHOOL OF MARKETING
- SCHOOL OF RISK AND ACTUARIAL STUDIES
- SCHOOL OF TAXATION AND BUSINESS LAW

Built Environment

T: +61 2 9385 4799
E: fbe@unsw.edu.au
W: www.be.unsw.edu.au



The approach that UNSW takes to industrial design is very forward-looking with lecturers who are pioneers in their fields.

Joseph, Singapore
Bachelor of Industrial Design

STUDENT BODY

2,860 TOTAL STUDENTS
2,181 UNDERGRAD STUDENTS
1,596 TOTAL MALE STUDENTS
1,264 TOTAL FEMALE STUDENTS

STUDY AREAS

7

- ARCHITECTURAL COMPUTING
- ARCHITECTURAL STUDIES
- CONSTRUCTION MANAGEMENT AND PROPERTY
- INDUSTRIAL DESIGN
- INTERIOR ARCHITECTURE
- LANDSCAPE ARCHITECTURE
- PLANNING

BE THE NEXT TO DESIGN, DELIVER AND MANAGE THE 21st CENTURY CITY

UNSW Built Environment offers you the opportunity to:
Learn from lecturers and professors who are leaders in their chosen fields and well connected to industry.

Have 24 hour access to state-of-the-art design studios, digital workshop and material library, dedicated workspaces, 3D printer, and much more.

Choose from one of the most comprehensive ranges of degree programs, which include exciting multidisciplinary programs.

Add a greater global focus to your studies with exchange to one of 200 international partner institutions.

Your challenge: become the next industry leader
A degree from our faculty equips you with a crucial mix of exceptional intellectual skills and practical skills to lead in your chosen profession. Whether you study architectural studies or industrial design, construction management or landscape architecture, or any of our other undergraduate degrees, you'll tackle projects based on real world problems – better preparing you for your career. And with a focus that stretches far beyond our home city, you'll be ready for the global challenges ahead.

At UNSW Built Environment we support and challenge you to become a leader in the built environment industry.

COFA Art Design Media

T: +61 2 9385 0684
E: cofa@unsw.edu.au
W: www.cofa.unsw.edu.au

START YOUR CREATIVE CAREER HERE

Are you ready for a flying start to your career as a professional artist or designer? Have you always wanted to be an inspirational educator or art theorist?

COFA at UNSW is the right place to be!

Australia's premier art school
COFA is Australia's premier art and design school. We offer the widest range of disciplines of any art and design school in Australia, from painting to performance, printmaking and photography, animation to art writing, textiles to time-based art, educational psychology – and so much more.

World-class teaching
With over 300 international students from over 50 countries, COFA is committed to developing your creative potential. With our degree programs taught by practising professionals, you'll be equipped with the right skills for an exciting career.

Cutting-edge facilities
Studying at COFA means working with world class staff and state-of-the-art facilities. Located in vibrant Paddington, surrounded by galleries and boutiques, you'll be able to immerse yourself in a creative community. Our A$58 million campus redevelopment means you'll have access to advanced studios and exhibition spaces, including a high definition projection room, motion capture studio – and that's just the beginning.

UNSW has prepared me for the future.

Stephen, Zimbabwe
Graduate - Design

Scan to watch Stephen's story

STUDENT BODY

3,005 TOTAL STUDENTS
2,265 UNDERGRAD STUDENTS
759 TOTAL MALE STUDENTS
2,296 TOTAL FEMALE STUDENTS

SCHOOLS

5

- SCHOOL OF ART
- SCHOOL OF ART HISTORY AND ART EDUCATION
- SCHOOL OF DESIGN STUDIES
- SCHOOL OF MEDIA ARTS
- COFA ONLINE

Engineering

T: +61 2 9385 6437
E: eng.international@unsw.edu.au
W: www.eng.unsw.edu.au

Studying at UNSW allowed me to apply my knowledge to situations in real working mines and opened doors to lots of exciting opportunities.

Batzul, Mongolia
Graduate - Mining Engineering

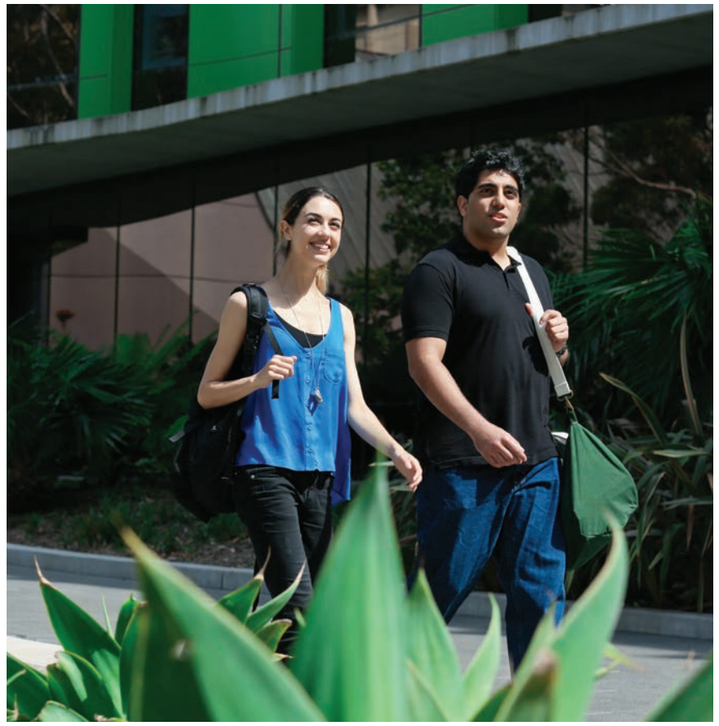
STUDENT BODY

9,688	6,785	7,740	1,948
TOTAL STUDENTS	UNDERGRAD STUDENTS	TOTAL MALE STUDENTS	TOTAL FEMALE STUDENTS

STUDY AREAS

10

- GRADUATE SCHOOL OF BIOMEDICAL ENGINEERING
- SCHOOL OF CHEMICAL ENGINEERING
- SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING
- SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
- SCHOOL OF ELECTRICAL ENGINEERING AND TELECOMMUNICATIONS
- SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING
- SCHOOL OF MINING ENGINEERING
- SCHOOL OF PETROLEUM ENGINEERING
- SCHOOL OF PHOTOVOLTAIC AND RENEWABLE ENERGY
- SCHOOL OF SURVEYING AND GEOSPATIAL ENGINEERING



BE PART OF AN INTERNATIONALLY TOP-RANKED ENGINEERING CENTRE

At UNSW Faculty of Engineering you get the opportunity to:
Join the largest engineering faculty in Australia – learn from experienced teaching staff and choose from the largest range of degree programs.

Gain valuable workplace experience using our faculty's strong links with key industrial, commercial and professional organisations.

Apply your theoretical learning to real-world situations – all degree programs include an invaluable industrial training component.

Benefit from our faculty's worldwide reputation for outstanding theoretical and applied research performance.

Access the extensive research laboratories and computing facilities.

Be a part of a centre alive with exciting research and developments, including world record-holding technologies!

Become an industry leader
As pioneers in engineering education, our faculty's contemporary research-led curriculum means you're at the forefront of innovation. With world-class education, a real-world focus, as well as strong industry links, there's no better place to prepare yourself for a career in engineering the future.

Our expertise
Ranked 39th in the world*, UNSW Engineering truly is a hub of exciting research – we're fast tracking the development of the bionic eye, we're home to the world's fastest solar powered vehicle, and we hold the world record for multi-layered solar cell efficiency – and that's not all. The faculty's newly established Tyree Energy Technologies Building is one of Australia's few six-star green rated buildings, proving that UNSW Engineering is a true world leader.

* 2012 *QS World University Rankings*

Law

T: +61 2 9385 2264
E: law@unsw.edu.au
W: www.law.unsw.edu.au

I had amazing lecturers at UNSW who really inspired me to use my skills to empower myself and others.

Scan to watch Yvette's story.

Yvette, China
Graduate - Bachelor of Commerce/Bachelor of Laws

STUDENT BODY

2,809	1,628	1,250	1,559
TOTAL STUDENTS	UNDERGRAD STUDENTS	TOTAL MALE STUDENTS	TOTAL FEMALE STUDENTS

RESEARCH CENTRES

7

- AUSTRALIAN HUMAN RIGHTS CENTRE
- CENTRE FOR LAW, MARKETS AND REGULATION
- THE CRIME AND JUSTICE RESEARCH NETWORK
- CYBERSPACE LAW AND POLICY CENTRE
- GILBERT AND TOBIN CENTRE OF PUBLIC LAW
- NETWORK FOR INTERDISCIPLINARY STUDIES OF LAW
- INDIGENOUS LAW CENTRE

Scan to take a tour of the UNSW law building

A TOP TIER LAW SCHOOL WITH THE HIGHEST GRADUATE SALARIES

At UNSW Law School:
You can choose to combine your law degree with a wide range of programs – from arts to commerce, computer science to engineering, and much more.

Put your legal training into practice through challenging mooting competitions.

Be involved in internships that enrich your learning experience and count towards your law degree.

Get a real-world understanding of being a lawyer at the on-campus community law centre, Kingsford Legal Centre.

Engage in debate and discussions in small to medium-sized classes rather than large lecture theatres.

Learn from outstanding academic staff – leaders in their fields and authors of many of the legal texts you'll study.

Be rewarded with a highly sought after degree
Our graduates have the highest starting salaries and success in securing a job*. With a law degree from UNSW, you can work in a range of industries including business, government, media, social work, and more.

Make a difference with great legal minds behind you
Ranked in the top 30 law schools globally**, UNSW Law is in the very top tier of Australian Law Schools. Our solid reputation is backed by outstanding teaching staff, support for students and exciting developments within our research and advocacy centres.

Whether it's protecting human rights or a bright future in business, you'll graduate with the skills and knowledge to make a difference in this world.

* 2012 *Australian Good Universities Guide*
** 2012 *QS World University Rankings*

Medicine

T: +61 2 9385 8765
E: medicine.info@unsw.edu.au
W: www.med.unsw.edu.au

I chose to study in Australia because of UNSW. My teachers were excellent with lots of international experience.

Telma, Timor Leste
Graduate - International Public Health

STUDENT BODY

3,479 TOTAL STUDENTS
1,976 UNDERGRAD STUDENTS
1,485 TOTAL MALE STUDENTS
1,994 TOTAL FEMALE STUDENTS

SCHOOLS

9

PRINCE OF WALES CLINICAL SCHOOL
RURAL CLINICAL SCHOOL
SCHOOL OF MEDICAL SCIENCES
SCHOOL OF PSYCHIATRY
SCHOOL OF PUBLIC HEALTH AND COMMUNITY MEDICINE
SCHOOL OF WOMEN'S AND CHILDREN'S HEALTH
SOUTH WESTERN SYDNEY CLINICAL SCHOOL
ST GEORGE CLINICAL SCHOOL
ST VINCENT'S CLINICAL SCHOOL

LEARN ALONGSIDE THE EXPERTS AT A RESEARCH-INTENSIVE MEDICAL SCHOOL

Turning discoveries into cures
With a history of over 50 years, UNSW Medicine is renowned as a leading medical centre with a focus on research excellence both in Australia and on the international stage. Striving to turn discoveries into cures, our faculty leads the world in research on adult and childhood cancer, virology including HIV research, and all aspects of the neurosciences.

Real-world learning
For both our six-year medical degree and our four-year exercise physiology degree, our close affiliations with Australia's finest hospitals, research institutes and healthcare organisations means you'll step outside of the University and learn alongside experts. Whether it's a career in treating individual patients or contributing to medical clinical breakthroughs, you will develop the theoretical knowledge, skills, as well as the necessary hands on experience to be the very best you can be in your chosen profession.

Our expertise
We're leading the world in cancer research as the home to the A$120 million Lowy Cancer Research Centre – one of the largest cancer research centres in the world and the first centre in Australia to bring together child and adulthood cancer research on one site. Our dedication to cutting edge research and teaching means our students are the next generation of medical experts.

Science

T: +61 2 9385 7788
E: science@unsw.edu.au
W: www.science.unsw.edu.au

I love the community here – the facilities, the buildings and the laboratories are all outstanding. At UNSW you see innovative ideas actually put into action.

Reema, Kenya
Bachelor of Science (Biotechnology)

STUDENT BODY

5,938 TOTAL STUDENTS
4,154 UNDERGRAD STUDENTS
2,982 TOTAL MALE STUDENTS
2956 TOTAL FEMALE STUDENTS

SCHOOLS

9

SCHOOL OF AVIATION
SCHOOL OF BIOLOGICAL, EARTH AND ENVIRONMENTAL SCIENCES
SCHOOL OF BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES
SCHOOL OF CHEMISTRY
SCHOOL OF MATERIALS SCIENCE AND ENGINEERING
SCHOOL OF MATHEMATICS AND STATISTICS
SCHOOL OF OPTOMETRY AND VISION SCIENCE
SCHOOL OF PHYSICS
SCHOOL OF PSYCHOLOGY

LEARN FROM AWARD-WINNING LEADERS IN SCIENCE

Science for society
This is the motivation for staff and students in our Faculty of Science at UNSW. Across our nine schools we have the foundations of science covered and tomorrow's challenges in our sights. We're cultivating the next generation of scientific leaders who'll continue the never-ending race of discovery.

Essential skills
Our science degrees equip you with the tools required to challenge existing knowledge, explore new frontiers, and make mind-blowing discoveries. Whichever career path you choose to take, studying science provides you with strong logical, analytical and creative thinking ability that's valuable in any work environment. We offer flexible degrees that enable you to explore science before you choose to focus, or specialist degrees that will have you on a career path from the very start. Whatever you choose, your qualification will be recognised around the world.

Our expertise
UNSW is a leader in research and our scientists are among the best in the world in DNA technology, quantum computing, bioengineering, climate change and weather prediction, wildlife management, drug development, cosmology and psychology. We are also developing new medicines and materials, repairing the environment, turning plastic bags into steel – and that's just the beginning!

We attract some of the best Australian and international scientists and have award-winning Laureate fellows, Federation fellows, Eureka prize winners and Rhodes scholars amongst our staff.

You will benefit from this rich environment – as the latest knowledge and technology is used to teach, nurture, and cultivate the next generation of talented scientific leaders.

What can I study at UNSW?

AT UNSW YOU ARE SPOILT FOR CHOICE. WE OFFER 130 DIFFERENT AREAS OF STUDY ACROSS EIGHT FACULTIES: ARTS, BUILT ENVIRONMENT, BUSINESS, COFA (FINE ARTS), ENGINEERING, LAW, MEDICINE AND SCIENCE.

On the following pages you will find information about Bachelor programs currently available to international students. Use it as a starting point for your research, and then refer to the relevant web references to explore the programs and courses in more detail.

You can also find further program and course information at www.handbook.unsw.edu.au – we recommend you spend some time here before making your final program choice.

Preparation study options
UNSW Institute of Languages offers English language preparation programs to enable students to meet the English requirements for entry to UNSW. See page 68 for further details.

Full-time study
If you are in Australia on a student visa, you will need to study full-time to satisfy your visa requirements. We define normal full time enrolment as 18-24 units of credit (UOC) per semester.

We encourage you to enrol in 24 UOC per semester to ensure you complete your program within the duration stated in your Confirmation of Enrolment.

Pass and honours degrees
In general, a three-year degree, such as a Bachelor of Arts, is referred to as a pass degree. Outstanding students are invited to complete a fourth year, called an honours degree, which involves a major research project.

If your degree is four or more years, a Bachelor of Engineering for example, you will be awarded an honours degree based on outstanding achievement, completion of honours-level courses, completion of a research project, or a combination of these.

Assumed knowledge
For some degree programs and first-year courses, it is assumed that you will already have a certain level of knowledge about a particular subject, usually gained from school.

Semester 2 entry
In some cases, the initial order of courses for programs starting in semester 2 may differ from programs that start in semester 1 and it may not be possible to complete the program in the minimum time.

If this is the case, you may need to complete summer semester studies in first or second year in order to finish within the minimum time.

If you have been granted or are eligible for advanced standing or a credit transfer, you may be able to commence your studies in semester 2, even for programs that do not usually offer semester 2 entry.

Internships and professional placements
For some programs, you will be required to spend some time during your degree on a professional placement or internship. What these involve will differ between faculties.

Although the faculty will assist you where possible to find a suitable placement, placements are not guaranteed.

To find out more about professional placements and internships, contact the relevant faculty or school.

Interdisciplinary studies
Three or four years focusing on one major can be hard work. By studying courses in more than one discipline, you will add variety to your degree and keep your options open if you're uncertain of your career direction.

Here are some of the ways to build multiple areas of study into your degree at UNSW:

Double major: For some programs, such as the Bachelor of Commerce and the Bachelor of Arts, it is possible to focus on two subject areas. The structure of the program changes slightly, but the length of the program remains unchanged.

In some cases, the second major can be from another faculty altogether. For example, a Bachelor of Arts student can complete a second major in Mathematics (offered by the Faculty of Science).

Dual award degree programs: Some students choose to study for two degrees concurrently. The total duration is less than if the two degrees were studied separately, but generally more than that of a single pass or honours degree.

Dual degrees allow you to combine two areas of expertise. So if you are interested in copyright law and artist representation, for example, you might undertake a combined Bachelor of Art Theory and Bachelor of Laws program.

If, on the other hand, you are interested in the psychology that drives consumer purchases, then a marketing major within the Bachelor of Commerce, combined with a psychology major in the Bachelor of Science might be for you.

Fast-track programs: If you are enrolled in an approved four-year Bachelor degree program and have completed the third year of study, you can apply for entry into an approved Masters degree program. The program structure will reduce the total study time required, usually by one semester.

Non-award programs
If you are interested in sampling specific courses at UNSW, you should consider our short-term programs. All of the programs are non-award, so while you may receive credit towards a degree back home, you won't get a degree from UNSW.

Study Abroad program
www.studyabroad.unsw.edu.au

If you are studying towards a degree at an accredited university outside of Australia, you can apply to study at UNSW for one or two semesters as part of the Study Abroad Program. The credit can be used towards your studies at your home institution.

There are also opportunities to take supervised internship, volunteering or research placements.

Summer Down Under™ program
The Summer Down Under program gives you the chance to sample a variety of courses during the summer semester of 2013/2014 and is a great way to get a feel for university life and spend some time in Sydney during the Australian summer.

You can choose from a number of disciplines including arts, business, design, engineering, law and science.

The Summer Down Under package includes on-campus accommodation and courses of up to 12 units of credit. The program is non award, although you may be able to get recognition for your studies at your home institution.

For more information visit:
www.summerdownunder.unsw.edu.au
or email summerdownunder@unsw.edu.au

Global education opportunities
www.international.unsw.edu.au/outbound-opportunities

Getting international experience while you are still studying is a great way to pick up new skills and demonstrate to future employers that you have a global perspective.

We have relationships with over 200 universities offering exchange programs in more than 35 countries in Asia, North America, Europe and South America. Our network also includes Universitas 21, China 9 and the Global E3.

There are a number of ways to enhance your degree with international experience.

- A *student exchange* lets you study overseas for a semester or year with a partner university. You will receive credit for the studies you complete
- Our *Practicum Exchange Program* gives students the opportunity to spend two to 12 months at a partner university to undertake research
- *International internships* are available through most faculties. They may be voluntary, for academic credit or for a salary – it will depend on your needs and the program you are studying
- *International volunteering* opportunities allow you to immerse yourself in a new culture and make a difference in developing countries
- *International short courses* are offered by many of our partner universities, often during the summer or winter break
- Our schools and faculties can also connect you with *study tours, conferences and field trips* around the world

Postgraduate coursework studies
Once you have completed your Bachelor degree, you can continue your study at UNSW by taking a graduate coursework program. We offer one of the most extensive selection of graduate programs in Australia. Graduate degrees include Graduate Certificates, Graduate Diplomas and Master degrees by coursework.

Postgraduate research studies
UNSW is one of the premier research universities in Australia, offering Master by Research and Doctoral degrees for postgraduate research students.

If you are interested in postgraduate research you should contact the UNSW Graduate Research School or visit
http://research.unsw.edu.au/future-students

For a more general overview of the University's research strengths, visit
http://research.unsw.edu.au/research-strengths

UNSW will review our undergraduate programs in 2013 to ensure they continue to provide a high quality learning experience for our students. Prospective students for 2014 will be informed of any substantive program changes.

UNSW QUICKLINKS

APPLYING TO UNSW

Apply online
Apply to UNSW online
www.apply.unsw.edu.au

Student portal access point
Accept your offer online
www.my.unsw.edu.au

Online handbook
Search programs and course available at UNSW
www.handbook.unsw.edu.au

UNSW Institute of Languages
English language courses to prepare you for study at UNSW
www.languages.unsw.edu.au

UNSW Foundation Studies
Foundation courses to prepare you for study at UNSW
www.ufs.unsw.edu.au

MORE ABOUT UNSW

UNSW home page
www.unsw.edu.au

UNSW International
All information international students need to know before applying
www.international.unsw.edu.au

UNSW online TV channel
Watch videos about UNSW teaching staff and students
www.tv.unsw.edu.au

Student Life@UNSW
All you need to know about being a student at UNSW
www.studentlife.unsw.edu.au

UNSW Alumni
Find out who else has studied at UNSW
www.alumni.unsw.edu.au

UNSW FACULTIES

Faculty of Arts and Social Sciences
www.arts.unsw.edu.au

Australian School of Business
www.asb.unsw.edu.au

Faculty of Built Environment
www.be.unsw.edu.au

COFA - Art Design Media
www.cofa.unsw.edu.au

Faculty of Engineering
www.eng.unsw.edu.au

Faculty of Law
www.law.unsw.edu.au

Faculty of Medicine
www.med.unsw.edu.au

Faculty of Science
www.science.unsw.edu.au

UNSW Canberra@ADFA
www.unsw.adfa.edu.au

STUDENT SERVICES

Residential Communities
Information about on-campus accommodation
www.rc.unsw.edu.au

University Library
Online catalogue and bookings for library facilities
www.library.unsw.edu.au

UNSW Scholarships
Search scholarships offered by UNSW
www.scholarships.unsw.edu.au

Student Development International (SDI)
Once you arrive in Sydney SDI can help you settle into life at UNSW
www.internationalstudent.unsw.edu.au

Careers and Employment
Student placements for internships and professional work experience
www.careers.unsw.edu.au

Arc@UNSW
Student organisation that makes university fun as well as interesting
www.arc.unsw.edu.au

GOVERNMENT RESOURCES

My University
Compare Australian universities
http://myuniversity.gov.au

Student visas
Information on how to apply for student visas to study in Australia
www.immi.gov.au

Australian diplomatic missions
Find an Australian embassy or consulate near you
www.dfat.gov.au/missions

UNSW ON SOCIAL MEDIA

facebook.com/unsw

twitter.com/unsw

youtube.com/unsw

gplus.to/unsw

Actuarial Studies

Bachelor of Actuarial Studies

Program code 3586

Faculty Australian School of Business

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry No

Estimated first year tuition A$33,600

Estimated fee to complete A$109,320

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3586.html

Website www.asb.unsw.edu.au/futurestudents

The Bachelor of Actuarial Studies is a challenging but highly rewarding degree that will provide you with Part I accreditation into the profession. Actuarial studies involves the application of statistical and financial analysis and risk models to management in general, life and health insurance, superannuation, investment and finance.

Program Structure
The core courses combine studies in actuarial studies, economics, finance and mathematics, which prepares you for a role as an actuarial analyst. Students who achieve the required academic standard in the actuarial studies courses will gain exemption from Part I of the Institute of Actuaries of Australia professional examinations as well as the Core Technical courses of the Institute and Faculty of Actuaries (UK) professional examinations. The degree can be enhanced with a second approved major.

MAJOR
Actuarial Studies

OTHER MAJORS
Accounting; Business Economics; Business Law; Business Strategy and Economic Management; Finance; Financial Economics; Information Systems; International Business; Management; Marketing; Mathematics; and Statistics.

Compulsory core courses: The Financial Life-cycle, Corporate Governance for Actuaries, Mathematics for Actuarial Studies and Finance 1A, Mathematics for Actuarial Studies and Finance 1B, Business Finance, Microeconomics 1, Macroeconomics 1, Time Series and Simulation, Compound Interest: Theory and Applications, Probability and Mathematical Statistics, Actuarial Models and Statistics, Life Contingencies, General Insurance Techniques, Asset-Liability and Derivative Models

Career Opportunities
There is strong demand for graduates in actuarial studies especially in the financial services, insurance and superannuation industry. As a graduate, you can work as an actuarial analyst, consultant, asset management trainee, credit analyst, forecasting analyst, insurance analyst, risk assessment officer, statistical research analyst, superannuation advisor, or wealth management analyst.

Professional Recognition
This degree serves as a foundation for students who wish to enter the actuarial profession. Students must achieve the required academic standard in their actuarial studies courses to gain exemptions from Part I of The Institute of Actuaries of Australia professional examinations, the core technical subjects of the Institute and Faculty of Actuaries (UK) professional examinations, and the Validation by Educational Experience credit for the Society of Actuaries (USA). Students can gain exemptions from Part II of The Institute of Actuaries of Australia professional examinations and become an associate member by completing an honours year in actuarial studies at the required academic standard.

Dual Award Degrees

Bachelor of Actuarial Studies/Bachelor of Economics

Program code 3588

Faculty Australian School of Business

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$33,600

Estimated fee to complete A$149,920

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3588.html

Website www.asb.unsw.edu.au/futurestudents

Architecture

Bachelor of Architectural Computing

Program code 3267

Faculty Built Environment

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes*

Estimated first year tuition A$29,850

Estimated fee to complete A$96,690

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3267.html

Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

Students undertaking this program explore and innovate with new ways of investigating design and management processes using the latest digital technologies and software. Projects within the built environment are brought to life in real-time virtual environments, through the use of information modelling technologies and the full range of multimedia and augmented technologies, which enables architects, planners, builders, clients and the community to better understand and examine design proposals in their settings. Students graduate with exceptional intellectual and practical skills, and can exercise leadership in the application of computer and digital technologies within the built environment disciplines.

Program Structure

YEAR 1
Architectural Design Studio 1, WWW in Presentation and Communications, Enabling Skills, Modelling and Visualisation, Structures and Construction 1, Digital Representation Studio, Real Time Interactive Environments, Programming for Designers

YEAR 2
Architectural Design Studio 3, Building Information Modelling, Experimental Modelling, Architectural History and Theory 2, Digital Computation Studio, Design Information Management, open electives

YEAR 3
Digital Collaboration Studio, Design Practice, BEIL interdisciplinary learning courses, 2 general education courses, graduation project

Note: An optional honours year is available.

Career Opportunities
As a graduate, you can work as an architectural computing, including architectural visualisation artist, design technology manager (in architectural practices), animation professional, gaming environment developer, building information modelling (BIM) customisation and implementation, parametric modeller and designer or web and multimedia designer.

Bachelor of Architectural Studies

Program code 3261

Faculty Built Environment

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes*

Estimated first year tuition A$31,200

Estimated fee to complete A$102,360

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3261.html

Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

Behind almost every building – from modest and intimate rooms to spaces accommodating complex needs and those that are extraordinary and iconic – lies the disciplined creativity of architecture. An architect designs buildings and their settings to meet the needs of people who use the building, clients and the broader community. In their design practice, architects are mindful of sustainability, cultural and economic considerations.

Architecture is an exciting and dynamic profession that works closely with other built environment professionals and is responsible for considering the building in its entirety.

Note: The Architecture program at UNSW is a 3 + 2 structure where students complete a 3-year Bachelor of Architectural Studies followed by a 2-year Master of Architecture to meet the requirements for registration as an architect. For more information about the Master of Architecture please refer to the International Postgraduate Guide or the Faculty website.

Program Structure

YEAR 1
Architectural Design Studio 1, Architectural History and Theory 1, Environment 1, Enabling Skills and Research Practice, Architectural Design Studio 2, Architectural Communications, Structures and Construction 1, elective

YEAR 2
Architectural Design Studio 3, Building Information Modelling, Architectural Design Studio 4, Architectural History and Theory 2, Structures and Construction 2, 2 general education courses and 1 open elective

YEAR 3
Architectural Design Studio 5, Environment 2, Architectural Design Studio 6, Architectural History and Theory 3, 2 BEIL interdisciplinary learning courses

Note: An optional honours year is available.

Career Opportunities
As a graduate, you may find employment as a consulting architect in a private practice, a specialist architect, an architect at a multidisciplinary design practice, an architect in a government office or large commercial practice architectural firms.

Professional Recognition
The Bachelor of Architectural Studies is the undergraduate pathway to the professionally accredited postgraduate Master of Architecture degree which has professional recognition from the NSW Architects Registration Board, Australian Institute of Architects, Architects Accreditation Council of Australia and Commonwealth Association of Architects.

Bachelor of Interior Architecture

Program code 3255

Faculty Built Environment

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$29,280

Estimated fee to complete A$131,920

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3255.html

Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

This program focuses on the design of interior environments and all aspects of their structural, spatial, social and material assembly. Students develop an informed appreciation of the physical, cultural, environmental and historic contexts of interior architecture and design, developing creative and inventive design solutions that reflect an understanding of the human scale and experiences inherent in the public and private spaces of our interior environments.

Program Structure

YEAR 1
Design Practice 1, Interior Techniques 1, Critical Perspectives 1, Design Practice 2, Interior Techniques 2, Critical Perspectives 2

YEAR 2
Design Practice 3, Interior Techniques 3, Critical Perspectives 3, Design Practice 4, Interior Techniques 4, Critical Perspectives 4

YEAR 3
Design Practice 5, Design Practice 6, 2 general education courses, 2 BEIL interdisciplinary learning courses

YEAR 4
Design Practice 7, Design Practice 8, 2 open elective courses, 2 BE elective courses

Career Opportunities
As a graduate, you can pursue a career as a private consultant or corporate interior designer and design for the broad spectrum of public and private sectors including office, hotel, exhibition, medical and retail environments.

Professional Recognition
The program is recognised by the International Federation of Interior Architects/Designers through the Design Institute of Australia.

Bachelor of Landscape Architecture

Program code 3380

Faculty Built Environment

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$29,280

Estimated fee to complete A$131,920

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3380.html

Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

Landscape architecture is a design profession with a long tradition and increasing relevance in meeting the challenge of creating sustainable and beautiful environments in urban and rural settings. Landscape architects combine knowledge of art and science to plan, design and manage natural and built environments in Australia and internationally, which conserve and celebrate ecological relationships, cultural values and symbolic associations.

Program Structure

YEAR 1
Design Communication 1, Landscape Studio 1, Introduction to Landscape Architecture, Landscape Analysis, Landscape Studio 2, History of Landscape Architecture, Plants and Design, Design Communication 2

YEAR 2
Landscape Studio 3, Landscape Documentation, Landscape Studio 4, Planting Design at the Landscape Scale, Landscape Engineering Principles, Select Electives, general education courses

YEAR 3
Landscape Management, Landscape Studio 5, Urban Landscape Design Seminar, Landscape Studio 6, 2 BEIL interdisciplinary learning course

YEAR 4
Landscape Studio 7, Contemporary Theory and Research, Professional Practice, Landscape Studio 8, Optional Thesis, open electives

Career Opportunities
As a graduate, you can pursue a career as a design consultant in a private practice, technical officer or designer in state or local government, landscape designer or planner in state government or landscape planning and management specialist.

Professional Recognition
This program is recognised by the Australian Institute of Landscape Architects.

Art Theory and Fine Arts

ART THEORY

Bachelor of Art Theory

Program code 4803

Faculty COFA

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$25,920

Estimated fee to complete A$85,320

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4803.html

Website www.cofa.unsw.edu.au

The study of art theory focuses on understanding contemporary trends in the visual arts, including painting, video, film, sculpture, performance and digital art. With its specialist focus on visual culture of the 19th, 20th, and 21st centuries, the degree combines the study of historical developments with theories and methods pertinent to the visual arts.

You have the opportunity to combine theoretical and historical studies with studio-based courses in art and design and draw on a wide range of electives offered at UNSW.

Program Structure
In your first year, you will undertake required courses introducing you to a range of histories and theories. In second and third year, you are able to tailor your degree by choosing your own art theory major. Throughout your study, you will be able to fine-tune your skills and areas of expertise by undertaking electives in any area, including fine arts, design or media arts.

Career Opportunities
As a graduate, you can pursue a career in art administration, curating, art criticism and writing, art administration, art historical research, public programming, policy and arts project management.

Dual Award Degrees

Bachelor of Art Theory/Bachelor of Arts

Program code 4806

Faculty COFA

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$26,160

Estimated fee to complete A$118,450

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4806.html

Website www.cofa.unsw.edu.au

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Bachelor of Art Theory/Bachelor of Social Research and Policy

Program code 4815

Faculty COFA

Minimum 4.5 years

Units of credit (per year/total) 48/216

Semester 2 entry Yes

Estimated first year tuition A$26,160

Estimated fee to complete A$135,540

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4815.html

Website www.cofa.unsw.edu.au

SEE ALSO
Bachelor of Art Theory/Bachelor of Law - page 53
Bachelor of Design (Honours) - page 33
Bachelor of Media Arts (Honours) - page 34

ART EDUCATION

Bachelor of Art Education

Program code 4801

Faculty COFA

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$25,920

Estimated fee to complete A$117,040

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4801.html

Website www.cofa.unsw.edu.au

The Bachelor of Art Education is designed to meet the community's need for art and design educators with highly developed skills in art education and fine arts. It incorporates the professional experience program undertaken in a variety of educational, community and industry settings.

Program Structure
In your first year you will undertake foundation courses in both art education and fine arts.

In your second and third years of study, you will study advanced art education courses, including curriculum studies and professional experience. You will need to choose a studio stream that will be your focus from painting, drawing, printmaking, photography, cross media arts, video sound image, sculpture/performance/installation, ceramics, jewellery or textiles. There is also a choice of electives.

In your fourth year you will participate in the professional experience internship for the first semester where you will undertake a real teaching role in a state high school or another creative institution of your choosing. Eligible students may decide to complete honours.

Career Opportunities
Graduates are able to teach visual arts, visual design, photography and digital media in primary, secondary schools and tertiary educational contexts and a range of community, cultural and industry settings, including as artists and designers, curriculum development officers, and as educators in museums, galleries, community and local government organisations.

Professional Recognition
The Bachelor of Art Education is fully accredited for secondary visual arts teaching and recognised by the Department of Education and Communities in New South Wales (NSW), the NSW Institute of Teachers and the Independent Schools Association (both government and non-government). The degree is also recognised in other Australian states and territories and internationally.

Note: Proficiency in English is essential in all education courses. Prospective teachers must be able to communicate effectively with school students and staff members. You are expected to have one of the following:

- Higher School Certificate minimum Band 4 in Standard English or
- Higher School Certificate minimum Band 4 in English as a Second Language or
- Higher School Certificate minimum Band 4 in Advanced English or
- IELTS score of 7.5, with a minimum of 8.0 in speaking and listening and a minimum of 7.0 in reading and writing.

If you do not meet these requirements you should make a general enquiry to the School of Art History and Art Education by calling +612 9385 0678.

Dual Award Degree
Bachelor of Design/Bachelor of Art Education - page 34

FINE ARTS

Bachelor of Fine Arts (Honours)

Program code 4814

Faculty COFA

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$25,920

Estimated fee to complete A$117,040

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4814.html

Website www.cofa.unsw.edu.au

For studio-based programs an overall IELTS score of 6.0 and a minimum 5.5 in each of the sub-tests will be accepted.

The Bachelor of Fine Arts (Honours) is designed for those who wish to involve themselves as practitioners in the visual arts or in the many related fields. This degree provides rigorous and stimulating studies at tertiary level from a wide range of approaches and disciplines within the visual arts. This degree also offers strong conceptual, theoretical and technical fundamentals underpinning the flexibility to explore various media through practice and experimentation. You will undertake a significant research project and have opportunities to engage with the art world in your final year.

As a fine arts student you will be able to choose a studio stream so that you can follow your passion. You can decide to focus on just one studio area or work across a number of studio areas. In all cases, an interdisciplinary approach to practice is encouraged.

Program Structure
In your first year you will complete a foundation year made up of COFA Gateway courses. Fine arts, media arts and design students work alongside each other, encouraging multidisciplinary engagement and allowing you to gain skills and ways of thinking that are applicable to a wide range of studio practices. Fine arts students focus on studio areas appropriate to the program's gateway and prescribed elective courses.

In second and third year you will choose a fine arts studio stream from painting, photography, printmaking, sculpture/installation/performance, cross-media arts, or textiles. You will also choose a second studio stream from the same fine arts studio area or another from media arts or design.*

The fourth year is an honours year. You will undertake a major self-initiated project and also participate in professional experience projects.

*STUDIO STREAMS
Media arts studio streams: animation and visual effects, video sound image

Design studio streams: graphics media, object, spatial, jewellery, ceramics, textiles

Fine arts studio streams: painting, drawing, printmaking, sculpture/installation/performance, photography, cross-media arts

Career Opportunities
As a graduate, you can work as a practising artist in your field of expertise. As the Bachelor of Fine Arts equips students with many skills and insights, you can also find employment across arts-related industries including in arts administration; arts education; arts writing; commercial photography; art gallery curating and installation; exhibition design; multimedia industry work (with sound and web technologies); theatre, film and/or television production; urban planning to produce site-specific artwork and interior and/or public locations to name a few.

SEE ALSO
Bachelor of Art Education - page 28
Bachelor of Media Arts (Honours) - page 34

Dual Award Degrees

Bachelor of Fine Arts/Bachelor of Arts

Program code 4812

Faculty COFA

Minimum years 4 years

Units of credit 48/192

Semester 2 entry Yes

Estimated first year tuition A$26,040

Estimated fee to complete A$118,510

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4812.html

Website www.cofa.unsw.edu.au

SEE ALSO
Bachelor of Fine Arts/Bachelor of Law - page 54
Bachelor of Commerce/Bachelor of Fine Arts - page 32

Arts

Bachelor of Arts

Program code 3403

Faculty Arts and Social Sciences

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes (except for those starting a language from beginner level)

Estimated first year tuition A$26,400
(Courses taken from other faculties will be charged at the appropriate unit of credit rate)

Estimated fee to complete A$87,240

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3403.html

Website www.arts.unsw.edu.au

The Bachelor of Arts is a versatile degree, offering you the opportunity to create your own career path by specialising in two areas of study, as well as electives from across UNSW. You have the option to include an internship for academic credit to gain valuable work experience, as well as take advantage of our mentoring and career development programs to explore your graduate options.

There are 35 different areas of study in the program, covering the arts, humanities and social sciences as well as options from other faculties. You will be taught by internationally recognised academics and benefit from strong links to industry and government.

Areas of Study
Americas Studies* provides a unique combined focus on both North and South America, based on international, intercultural and global perspectives.

Art History and Theory* is the historical study that includes ways of exploring art and design through history, practices, reception and philosophies. This study area is offered through COFA.

Asian Studies examines the Asian region as well as Australia's place in it. Emphasis is placed on both an all-Asia approach and a speciality in one country or society.

Australian Studies* explores Australian history, culture and society, including concerns such as Indigenous issues, the environment, gender identity and politics, and the shaping of cultural icons and institutions.

Chinese Studies encompasses Chinese language and communication; culture and civilisation; history, politics and philosophy.

Creative Writing develops practical skills in creative writing in various genres, in editing and in understanding the professional contexts in which written communication plays a central role.

Criminology is a program about crime, its causes and social construction, the history and operation of crime control institutions and the outcomes of criminal justice policies.

Dance Studies enhances your appreciation and understanding of dance as both an art form and a social practice.

Development Studies examines issues that concern the developing world and the theories, policies and practical measures that address them.

Economics Studies is the interplay between the economic environment in which business decisions are made and the strategic interactions among economic agents. This study area is offered through the Australian School of Business.

English explores the importance of literature and literary culture to the history of ideas, cultural identities, ethical formation of individuals and communities, cultural politics, artistic movements and public life.

Environmental Humanities explores the values and worldviews that determine human choice in environmental policy and management.

European Studies focuses on the political, economic, ideological and cultural forces that have shaped modern Europe, and the impact of European developments on Australia and the rest of the world.

Film Studies investigates film from critical, theoretical and historical perspectives, covering key cultural and institutional forces in the industry, and explores the impact of technological, economic and aesthetic factors.

French Studies focuses on French communication skills and the structure and function of languages. Studies include French literature, cultures, communities and societies where the language is used.

Geography studies the natural and human-dominated environments, and finds practical application in the conservation and planned development of resources.

German Studies places special emphasis on integrating the study of social, historical and cultural developments in German society with the teaching of practical language skills and German literature.

Hispanic Studies focuses on an informed understanding of the Spanish-speaking world through the study of Spanish language, literature, civilisation and history.

History studies humanity in all its dimensions. It explores the diversity of human experience, the richness of difference in ideas, culture and institutions.

Human Resource Management studies policies and processes for managing people in the modern workplace, including staff planning, recruitment, equity, motivation and performance management. This study area is offered through the Australian School of Business.

Indigenous Studies critiques notions of Australian history and identity, policy and contemporary relations between non-Indigenous and Indigenous Australians (Nura Gili).

Indonesian Studies* explores the linguistic and cultural heritage of Indonesia, combining practical language skills with the study of Indonesian history, society, culture and customs.

International Business deals with the development, strategy and management of multinational enterprises, including globalisation, cross-cultural management, strategy and business in the Asia Pacific region. This study area is offered through the Australian School of Business.

International Relations studies politics at the international, cross-national, transnational, regional and global level.

Japanese Studies provides language skills to prepare you for professional intercultural communications; an awareness of culture, history and society; and the skills to use a variety of technological media in Japanese.

Korean Studies develops your communication skills in the Korean language and a knowledge and understanding about Korea.

Linguistics studies human language and provides a basis for the teaching and learning of foreign languages; translating and interpreting; cross-cultural communication; treating language disorders; language and literacy curricula in schools.

Media, Culture and Technology provides a progressive understanding of the social, cultural and impacts of media and communications technologies. See also Bachelor of Media on page 64.

Music provides intensive study of the traditional disciplinary focus of music, particularly theoretical and applied musicianship, analysis and composition, orchestration and electronic music. See also Bachelor of Music on page 58.

Philosophy involves the study of theories which strongly influence patterns of thought, ethical views and social and political attitudes, and provides a deeper understanding of contemporary issues.

Politics examines political action, ideas, institutions and actors, from local to global. It deals with governments, policy development, political systems, cultures and societies.

Psychology focuses on the scientific and systematic study of the human mind and behaviour in a wide variety of areas. See also Bachelor of Psychology on page 59.

Sociology and Anthropology explores human relationships and the multiplicity of interactive cooperation, conflict and communication that constitutes any society.

Theatre and Performance Studies examines how the theatrical and performing arts reflect and shape our sense of who we are, studying performance culture history and engaging in contemporary practice.

Women's and Gender Studies* examines how gender has intersected with racism, heteronormativity and other discriminatory categories of difference to sustain unequal social relations.

*Offered as a Minor only.

Career Opportunities
As a graduate, you can pursue a career in areas such as government, public services (for example Department of Foreign Affairs, Social Security, Education, Housing, Corrective Services and Aboriginal Affairs), business, banking, finance, NGOs, media, journalism, marketing, communications, performing arts, management, research, and teaching at secondary and tertiary levels.

Dual Award Degrees
Bachelor of Art Theory/Bachelor of Arts - page 27
Bachelor of Arts/Bachelor of Education (Secondary - page 35
Bachelor of Arts/Bachelor of Laws - page 53
Bachelor of Commerce/Bachelor of Arts - page 32
Bachelor of Economics/Bachelor of Arts - page 35
Bachelor of Engineering (various programs)/Bachelor of Arts - pages 37 to 51
Bachelor of Environmental Science/Bachelor of Arts page 37
Bachelor of Fine Arts/Bachelor of Arts - page 28
Bachelor of Music/Bachelor of Arts - page 58
Bachelor of Science/Bachelor of Arts - page 61
Bachelor of Science (Advanced)/Bachelor of Arts page 62
Bachelor of Science (Advanced Mathematics)/Bachelor of Arts - page 62

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Bachelor of Arts and Business

Program code 3437

Faculty Arts and Social Sciences

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes (except for those starting a language from beginner level)

Estimated first year tuition A$29,880
(Courses taken from other faculties will be charged at the appropriate unit of credit rate)

Estimated fee to complete A$94,440

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3437.html

Website www.arts.unsw.edu.au

The Bachelor of Arts and Business is a new degree that provides you with the opportunity to follow your passions in the arts, and also develop skills in business and management. There are mentoring and career development programs that encourage you to explore subject options that will maximise your potential.

Program Structure
Develop foundations in business through the following core courses:

- Accounting and Financial Management 1A
- Microeconomics 1
- Marketing Fundamentals
- Managing Organisations and People

You then have the opportunity to gain additional business insight through marketing, business law and management elective courses. You also complete an arts major (nine courses) and a minor (six courses) as well as one arts elective.

MAJORS AND MINORS
- Asian Studies
- Americas Studies*
- Art History and Theory*
- Australian Studies*
- Chinese Studies
- Creative Writing
- Criminology
- Dance Studies
- Development Studies
- English
- Environmental Humanities
- European Studies
- Film Studies
- French Studies
- Geography*
- German Studies
- Hispanic Studies
- History
- Indigenous Studies
- Indonesian Studies*
- International Relations
- Japanese Studies
- Korean Studies
- Linguistics
- Media, Culture and Technology
- Music
- Philosophy
- Psychology*
- Politics
- Sociology and Anthropology
- Theatre and Performance Studies
- Women's and Gender Studies*

* Offered as a minor only

Career Opportunities
As a graduate, you can pursue a career in areas such as government, public services (for example Department of Foreign Affairs, Social Security, Education, Housing, Corrective Services and Aboriginal Affairs), business, banking, finance, NGOs, media, journalism, marketing, communications, performing arts, management, research, and teaching at secondary and tertiary levels.

SEE ALSO
Bachelor of Arts - page 29
Bachelor of Commerce - page 31

Aviation

Bachelor of Aviation (Flying)

Program code 3980

Faculty Science

Minimum years 3 years

UOC (per year/total) 48/144

Semester 2 entry No

Estimated first year tuition A$34,260

Estimated fee to complete A$226,380
(including A$126,000 approx. flying fees)

Assumed Knowledge Maths and Physics is recommended

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3980.html

Website www.aviation.unsw.edu.au

The Bachelor of Aviation within the flying stream is an integrated program consisting of an academic core plus quality flight training to commercial standards.

On graduation, students who complete the three-year flight training option will hold the Bachelor of Aviation. You will attain a minimum of Commercial Pilots Licence with a Multi Engine Command Instrument Rating and an Air Transport Pilots Licence (frozen) on completion of the degree with advanced options available including Instructor Rating, Multi Crew course or a research project. As an international student you are advised to confirm registration requirements with the relevant aviation authorities in your home country. A Class One aviation medical certificate is required to be a commerical pilot.
You should check with your local aviation medical examiner to determine whether you are eligibile for an Australian Class One medical certificate.

Program Structure
YEAR 1
Fundamentals of Aviation, Introduction to Human Factors, Airline Economics, Introduction to Aircraft Engineering, Mathematics for Life Sciences, Statistics for Life and Social Sciences, Physics 1A (Aviation), Energy and Environmental Physics

YEAR 2
Flight Operations 1, Flight Operations 2, General Education

YEAR 3
Flight Operations 3, Airline Management, Aviation Safety and Resource Management, General Education, and one course chosen from: Simulation Applications and Air Traffic Management, Aviation Maintenance Technology and Operations
Aircraft Evaluation and Design Appraisal

Career Opportunities
Whilst many trainee pilots aim at airline employment, you may also find careers in business aviation, training, charter flying and aerial survey work.

Bachelor of Aviation (Management)

Program code 3981

Faculty Science

Minimum years 3 years

UOC (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$34,260

Estimated fee to complete A$112,050

Assumed Knowledge Maths and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3981.html

Website www.aviation.unsw.edu.au

The Bachelor of Aviation (Management) shares a common academic core with the Bachelor of Aviation (Flying) plus a wide range of aviation management courses. The program is designed for those with aviation industry experience or licences who desire to further their qualifications to a tertiary level, or those who seek a new career in aviation in the broad context of flight operations either on or off the flight deck.

Program Structure
YEAR 1
Fundamentals of Aviation, Introduction to Human Factors, Airline Economics, Introduction to Aircraft Engineering, Mathematics for Life Sciences, Statistics for Life and Social Sciences, Physics 1A (Aviation), Energy and Environmental Physics, Airline Financial Analysis and Decision Support

YEAR 2
Aviation Law and Regulations, Airline Marketing Strategies, Regional and General Aviation, General Education, and courses chosen from: Managing People, Microeconomics 1, Aviation Technologies, Aviation Operations Research, Aviation Security and Airport Management, Air Transport: Environment, Logistics and Economics

YEAR 3
Airline Management, Airline Resource Management, Aviation Safety and Resource Management, Aviation Research Methods, General Education, and courses chosen from: Simulation Applications and Air Traffic Management, Aviation and Sustainable Tourism, Airport Management 2, Workplace Safety. Aviation Maintenance Technology and Operations, Aircraft Evaluation and Design Appraisal

Career Opportunities
Management within the industry often requires substantial knowledge of technical matters. Managers in aviation may also need specific knowledge of the unique operational aspects of the industry that relate to scheduling, route planning, airport operations, aviation laws and regulations, security, economics and marketing. Employment is therefore open in many areas and you may work within several of these areas during your career.

Biotechnology

Bachelor of Science (Biotechnology)

Program code 3052

Faculty Science

Minimum years 4 years

UOC (per year/total) 48/192

Semester 2 entry Yes
(summer semester must be completed after 1st semester of study)

Estimated first year tuition A$34,320

Estimated fee to complete A$154,480

Assumed Knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3052.html

Website www.science.unsw.edu.au

Biotechnology is used for the production of pharmaceuticals, food and industrial chemicals, in the development of improved crops and livestock for farming, for environmental clean-up, and in forensics. Modern biotechnology makes practical use of the most recent scientific advances. Our ability to cope with many of the world's medical, environmental, agricultural and manufacturing problems in the 21st century will depend heavily on advances in biotechnology. This degree is for bright, enterprising students who want to change the world we live in. As with all our science degrees you start your degree building on the fundamentals of science with courses such as biology, chemistry and maths. You'll also begin your journey as a biotechnologist with Introductory Biotechnology.

Your following two years see you delve deeper into the multi-disciplinary world of biotechnology, with courses in molecular biology, microbiology, chemistry, genetics and of course biotechnology. You'll explore current trends and professional issues in the biotechnology industry, including commercialisation of biotechnology. In your final year you'll complete a research project as part of your honours year.

Program Structure

YEAR 1
Molecules Cells and Genes, Introductory Biotechnology, Chemistry, Mathematics, electives

YEAR 2
Current Trends in Biotechnology, Principles of Biochemistry (Advanced), Principles of Molecular Biology (Advanced), Genetics, Microbiology, Molecular Cell Biology, General Education, and selected courses from the following: Evolutionary and Physiological Ecology, Organic Chemistry, Chemical and Spectroscopic Analysis, Physiology, Introductory Pharmacology and Toxicology

YEAR 3
Molecular Biology of Nucleic Acids, Biotechnology and Bioengineering, Commercial Biotechnology, Professional Issues in Biotechnology, General Education, and selected courses from an approved medical stream, environmental stream, or molecular stream

YEAR 4
Biotechnology research project

Career Opportunities
As a graduate, you can expect to find employment in a wide range of organisations including start-up companies developed to commercialise new research findings, established companies applying new biological techniques, medical and biological research organisations and a range of commercially related activities such as patents and venture capital.

SEE ALSO
Bachelor of Engineering (Bioinformatics) - page 50
Bachelor of Science major in Biotechnology - page 60
Bachelor of Science (Advanced Science)
major in Biotechnology - page 62

Business

Bachelor of Commerce

Program code 3502

Faculty Australian School of Business

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$33,360

Estimated fee to complete A$109,080

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3502.html

Website www.asb.unsw.edu.au/futurestudents

The Bachelor of Commerce is a highly valued business qualification that opens doors to a wide variety of careers. This degree offers you the flexibility to design a degree program that suits your interests and career aspirations.

Program Structure
The compulsory core courses in the first semester provide you with the business fundamentals. You will then choose four courses from a list that allows you to explore different areas of study and help you choose a major.

Compulsory core courses are:
Accounting and Financial Management 1A, Business and Economic Statistics, Microeconomics 1, Managing Organisations and People

Choose four courses from the following list:
Accounting and Financial Management 1B, Business and the Law, Business Finance, Business Information Systems, Macroeconomics, Marketing Fundamentals

MAJORS
In your second and third year of study, you can choose one or two majors.

Commerce majors
Accounting, business economics, business law, business strategy and economic management, finance, financial economics, human resource management, information systems, international business, management, marketing, and taxation.

Other approved majors
Chinese studies, French studies, German studies, Hispanic studies, Japanese studies, and Korean studies.

Accounting is a broad and dynamic discipline that involves the analysis of financial and non-financial information to effectively manage business resources. Accounting guides investment decisions and facilitates interaction between businesses and their stakeholders to enable informed decision making to take place about a business.

Business Economics analyses decision-making by individuals, business, government and global organisations. It deals with important issues such as economic growth and development, public policy design and implementation, and the means to improve overall efficiency and living standards. It offers a great flexibility of choice amongst a wide variety of economics courses.

Business Law focuses on the legal requirements underpinning and regulating all forms of commercial activity. Business law seeks to protect consumers and commercial interests by providing legal guidelines for fair trading, franchising, e-business, commercial contracts and business transactions.

Business Strategy and Economic Management deals with strategic behaviour among firms and provides tools for effective business decision-making. It looks at important issues such as the behaviour of individuals and firms and their strategic interactions, economic growth and development, public policy design and implementation, and the means to improve overall efficiency and living standards.

Finance is essentially the management of money in the financial and capital markets. It deals with investment decisions (e.g. portfolio selection, mergers and acquisitions) and corporate financing decisions (e.g. dividend policy, debt and equity structures, and lease decisions) within those markets. It involves determining the values (or prices) of financial assets and making decisions in the face of uncertainty in an ever-changing, fast-paced environment. It is also concerned with the development of risk-hedging strategies as an important mechanism to manage adverse movements in share prices, interest rates and other financial uncertainties.

Financial Economics focuses on understanding how individuals, firms and markets manage financial risk. It analyses decision making by business, government and global organisations, the causes and effects of inflation, and income distribution.

Human Resource Management is the strategic approach to managing an organisation's employees. It is based on the premise that people are an organisation's most valued asset, and effective and responsible HR practices provide a foundation for any organisation's strategic success.

Information Systems uses computers and communication networks to acquire, organise and process information, enabling people and organisations to be more creative and productive. It involves learning to understand the needs of individuals and organisations, designing and developing systems to meet those needs, and implementing and adapting these systems to changing organisational needs

International Business is a rapidly growing field that deals with the development, strategy and management of multinational organisations. It investigates how firms organise and conduct operations globally, and how the competitive international environment shapes the economic, political and cultural context for business.

Management examines the processes, structures, capabilities and work functions involved in managing people and organisations effectively. It centres on planning, building and developing relationships between people and organisations, and involves formulating organisational goals and structures, fostering innovation, and regulating resources for effective performance.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Marketing is essential to every business in today's competitive global marketplace. It is a dynamic function aimed at creating differentiation and competitive advantage for a business. The marketer's role is to identify and understand consumer needs, design appropriate products and services, develop communication to promote them, and determine the most effective way to deliver the offerings.

Taxation provides the government with funding to deliver essential services and to effectively manage the economy. An awareness of taxation legislation and policies enables companies and individuals to structure their business transactions in a tax effective manner, thus increasing profit and efficiency.

Career Opportunities
As a graduate, you will be equipped with specialist technical skills which are the building blocks for a career in business, as well as developed analytical skills. You will be qualified to pursue a range of careers across local and international organisations, government and not-for-profit organisations and work as an accountant, economist, strategy consultant, business manager, marketing specialist, information systems consultant, taxation advisor, investment banker, or policy advisor.

Professional Recognition
You can tailor your studies to meet the educational requirements for peak professional bodies including the Australian Computer Society, the Australian Human Resource Institute, the Australian Marketing Institute, the Australian Securities and Investment Commission, CPA Australia, the Institute of Chartered Accountants in Australia, Institute of Public Accountants, the Financial Services Institute of Australasia.

Bachelor of Commerce (International)

Program code 3558
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$33,360
Estimated fee to complete A$145,840
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3558.html
Website www.asb.unsw.edu.au/futurestudents

This dynamic and innovative degree is designed specifically for students wanting to broaden and enhance their business studies with a good understanding in international affairs, and key global and development issues. This multi-disciplinary degree draws from politics, international relations, development studies, and other areas of study to help you develop cross-cultural perspectives in addition to the business acumen necessary for careers in the rapidly changing global environment.

Program Structure
This is a rigorous four-year program which includes:

- Core courses in the Bachelor of Commerce including four compulsory core and four elective core courses
- A choice of one commerce major (see Bachelor of Commerce on page 31)
- Four international studies courses (including globalisation studies, Asian studies, European studies, development studies, modern languages and international relations), one intercultural and cross cultural study course, two studies of the region course and one capstone course
- A 12-month period of overseas study*

*In order to proceed on the Overseas Study Program, which is a compulsory part of this program, students must satisfy the academic requirements of the University's International Exchange Program.

Career Opportunities
As a graduate, you can find employment in diverse professions within the commerce industry depending on your choice of major in the commerce degree. You can work in government agencies including foreign affairs, investment banks and other financial institutions with international links as well as non-government organisations.

Dual Award Degrees

Bachelor of Commerce/Bachelor of Arts

Program code 3522
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$29,880
Estimated fee to complete A$134,680
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3522.html
Website www.asb.unsw.edu.au/futurestudents

Bachelor of Commerce/Bachelor of Economics

Program code 3521
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$33,360
Estimated fee to complete A$149,680
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3521.html
Website www.asb.unsw.edu.au/futurestudents

Bachelor of Commerce/Bachelor of Fine Arts

Program code 3567
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$29,640
Estimated fee to complete A$133,360
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3567.html
Website www.asb.unsw.edu.au/futurestudents

Bachelor of Commerce/Bachelor of Information Systems

Program code 3584
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$33,360
Estimated fee to complete A$149,680
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3584.html
Website www.asb.unsw.edu.au/futurestudents

Bachelor of Commerce/Bachelor of Media (Public Relations and Advertising)

Program code 3559
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$29,880
Estimated fee to complete A$134,680
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3559.html
Website www.asb.unsw.edu.au/futurestudents

Bachelor of Commerce/Bachelor of Science

Program code 3529
Faculty Australian School of Business
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$33,840
Estimated fee to complete A$152,840
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3529.html
Website www.asb.unsw.edu.au/futurestudents

Bachelor of Commerce/Bachelor of Science (Advanced Mathematics)

Program code 3523
Faculty Australian School of Business
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes
Estimated first year tuition A$33,840
Estimated fee to complete A$196,520
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3523.html
Website www.asb.unsw.edu.au/futurestudents

SEE ALSO
Bachelor of Actuarial Studies - page 26
Bachelor of Arts and Business - page 30
Bachelor of Commerce/Bachelor of Laws - page 53
Bachelor of Engineering (all disciplines)/Bachelor of Commerce - pages 37 to 51

Construction Management and Property

Bachelor of Construction Management and Property

Program code 3331
Faculty Built Environment
Minimum years 4 years (including a period of 80 days work experience)
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$29,280
Estimated fee to complete A$131,920
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3331.html
Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

The Bachelor of Construction Management and Property provides education and training in the management of property development, construction and design work, construction site and facility operation, and has a strong emphasis on management skills including human resources, organisational behaviour and risk management. You can choose to specialise in building construction, property development, facilities management or quantity surveying.

Program Structure

YEAR 1
Construction Materials, Construction Management Principles, Domestic Construction, Introduction to Construction and Property Industries, Building Structures, Construction and Property Economics, Low Rise Residential Construction, Project Management

YEAR 2
Construction Law, Industrial Building Construction, Construction Contract Administration, Tall Building Construction, 1 open elective, 2 specified electives, 1 BE elective

YEAR 3
Scheduling Techniques in Construction, OH&S in the Built Environment, Construction Techniques, Social Responsibility and Professional Ethics, 2 specified electives, 2 BEIL interdisciplinary learning courses

YEAR 4
Thesis (optional), specified electives, open elective, 2 general education

Career Opportunities
As a graduate, you can work as a developer, property consultant, construction manager, project manager, quantity surveyor, facilities manager or builder.

Professional recognition
Dependent on the completion of specific units, this degree is recognised by the Royal Institute of Chartered Surveyors, the Australian Institute of Building (AIB), the Australian Property Institute, the Australian Institute of Quantity Surveyors and the Chartered Institute of Building.

SEE ALSO
Bachelor of Engineering (Civil Engineering) - page 39

Criminology

Bachelor of Criminology and Criminal Justice

Program code 3422
Faculty Arts and Social Sciences
Minimum years 3 years
Units of credit (per year/total) 48/144
Semester 2 entry Yes
Estimated first year tuition A$26,400 (courses taken from other faculties will be charged at the appropriate unit of credit rate)
Estimated fee to complete A$88,860
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3422.html
Website http://socialsciences.arts.unsw.edu.au/

Criminology is broadly defined as the study of crime, its causes and social construction, the history and operation of crime control institutions and the outcomes of criminal justice policies. The Bachelor of Criminology and Criminal Justice gives you the opportunity to build skills in applied social research and policy analysis combined with specialised study in criminology. You will focus on bringing together knowledge, methods and ideas derived from the social sciences to the analysis of criminological problems.

Program Structure

YEAR 1
Introduction to Criminology, Social Science and Policy, Research and Information Management, Introduction to Criminal Justice, electives

YEAR 2
Criminal Law and Justice 1, Criminal Law and Justice 2, Applied Social Research 1, Policy Analysis Case Studies, Criminology electives, electives

YEAR 3
Explaining Crimes, Social Theory and Policy Analysis, Applied Social Research 2, Social Science and Policy Project, Criminology Electives, Electives

Criminology electives may include: History of Crime, Law, Policy and Practice, Criminal Justice System, Juvenile Justice, Policing, Sex, Human Rights and Justice, Deviant Fieldwork, Crime in Australian Society, Crime, Gender and Sexuality

Career Opportunities
As a graduate you will be prepared for a career in policy analysis or research in criminal justice agencies, quantitative and qualitative social research, project design and management in private, government and nongovernment sectors.

SEE ALSO
Bachelor of Criminology and Criminal Justice/Bachelor of Laws - page 53
Bachelor of Criminology and Criminal Justice/Bachelor of Social Work - page 63

Design

Bachelor of Design (Honours)

Program code 4809
Faculty COFA
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$25,920
Estimated fee to complete A $117,040
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4809.html
Website www.cofa.unsw.edu.au

For studio-based programs an overall IELTS score of 6.0 and a minimum 5.5 in each of the sub-tests will be accepted.

The Bachelor of Design (Honours) provides an education to students who wish to work as a designer and enter a design profession such as graphic design, media design, film, television production and post-production, illustration, publications, interiors, theatre, exhibitions, display, festivals and furnishings, ceramics, textiles, jewellery and product design.

This degree introduces you to the social, cultural and environmental issues associated with working in design. The program has an integrated approach and you will study two design streams. Rather than producing specialists, As a graduate, you will be flexible with a broad range of skills allowing you to work across a wide range of design disciplines.

Program Structure
In the first year, all COFA studio degree students undertake a foundation year made up of gateway courses. Design, fine arts and media arts students work alongside each other, encouraging multidisciplinary engagement and allowing you to gain skills and ways of thinking that are applicable to a wide range of studio practices. You will complete two design gateway courses that will introduce you to working in design, the context, materials and methodologies.

In your second year of study, you will choose two design studio streams to focus on from ceramics, graphics media, jewellery, object design, spatial design, and textiles. You continue with these two studios in your third year which also includes an integrated project completed across both studios.

The fourth year of study is an honours year. You will undertake a major self-directed project. You will also participate in the professional experience program that will prepare you to enter the job market though industry-based internships.

Career Opportunities
This program prepares you to be a design professional or studio practitioner. Graduates find employment opportunities in advertising and web design; ceramics and object design; costume, theatre and events design; design management; design teaching; design consultancies and private practice; design for exhibitions, galleries and museums; environmental, spatial, interior and architectural

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

design; film, television production and post-production; graphics, media and digital design; jewellery and object design; object, furniture and lighting design; packaging, book and magazine illustration and design; textile design for fashion, accessories, interiors and commercial textile studios.

Dual Award Degree

Bachelor of Design/Bachelor of Art Education

Program code 4811

Faculty COFA

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes

Estimated first year tuition A$25,920

Estimated fee to complete A$168,460

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4811.html

Website www.cofa.unsw.edu.au

The Bachelor of Design/Bachelor of Art Education prepares will prepare you to become a visual arts and design educator, and/or design professional. The BDes/BArtEd comprises courses in design, art and design education, including design history, theory and aesthetics, electives and general education courses. The philosophy informing the program anticipates the notion of the designer/artist-teacher. A strong studio and historical focus is combined in each session with art/design educational courses, to enable you to function in a cross-disciplinary way. Educational concepts, skills and values are studied within the context of the practice-based disciplines of an art/design/media school.

Program Structure
In your first year, you will undertake foundation courses in both art education and design. All COFA studio degree students undertake gateway courses where design, fine arts and media arts students work alongside each other, encouraging multidisciplinary engagement and allowing you to gain skills and ways of thinking that are applicable to a wide range of studio practices. The two design gateway courses introduce working in design, the context, materials and methodologies.

In the second, third and fourth years of study, you will study advanced art education courses, including curriculum studies and professional experience. Students also choose two design studio streams to focus on from: ceramics, graphics media, jewellery, object design, spatial design, and textiles.

In your fifth year you will undertake a major self-directed design project. You will also participate in the design professional experience program that prepares you to enter the job market though industry based internships.

In your final semester, you will participate in the professional experience internship where you undertake a real teaching role in a state high school or another creative institution of your choosing.

Career Opportunities
This program prepares students as design professionals, design educators and studio practitioners. As a graduate, you can find employment opportunities in advertising and web design; ceramics and object design; costume, theatre and events design; design management; design teaching; design consultancies and private practice; design for exhibitions, galleries and museums; environmental, spatial, interior and architectural design; film, television production and post-production; graphics, media and digital design; jewellery and object design; object, furniture and lighting design; packaging, book and magazine illustration and design; textile design for fashion, accessories, interiors and commercial textile studios.

You will be able to teach technology and applied studies, particularly design and technology and visual arts, in secondary schools, community organisations, museums and galleries and work as a curriculum development officer.

Professional Recognition
The Bachelor of Design/Bachelor of Art Education is fully accredited for secondary visual arts and design and technology teaching and is recognised by the Department of Education and Communities in New South Wales (NSW), the NSW Institute of Teachers and the Independent Schools Association (both government and non-government).

The degree is also recognised in other Australian states and territories and internationally.

Note: Proficiency in English is essential in all education courses. Prospective teachers must be able to communicate effectively with school students and staff members. It is expected that all applicants will have one of the following:
- Higher School Certificate minimum Band 4 in Standard English or
- Higher School Certificate minimum Band 4 in English as a Second Language or
- Higher School Certificate minimum Band 4 in Advanced English or
- IELTS score of 7.5, with a minimum of 8.0 in speaking and listening and a minimum of 7.0 in reading and writing.

If you do not meet these requirements you should make a general enquiry to the School of Art History and Art Education by calling +612 9385 0678.

Bachelor of Industrial Design

Program code 3385

Faculty Built Environment

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$29,910

Estimated fee to complete A$134,230

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3385.html

Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

Behind many manufactured products and services encountered at home, at work and in the public arena is the creativity, innovation and technical know-how of an industrial designer. Their role is to create attractive and functional products that work in the real world and fulfill a genuine market demand or societal need. Understanding materials, manufacturing technology and user insights within economic, social and environmental contexts in which products are produced, marketed and used is essential.

Program Structure

YEAR 1
Industrial Design Model Making; Industrial Design Fundamentals; Industrial Design: Past, Present and Futures; Industrial Design Communication A; Design Studio 1; Materials and Technology Workshop A; Industrial Design Communication B; Statistics

YEAR 2
Design Studio 2A, Industrial Design Communication C, Ergonomics, Materials and Technology Workshop B, Design Studio 2B, Computer Applications in Industrial Design, Marketing Fundamentals, Industrial Design Theory and Process

YEAR 3
Design Studio 3A, Materials and Technology Workshop C, Consumer Behaviour, Market Research, Industrial Design Studio 3B, BEIL interdisciplinary learning course, general education course

YEAR 4
Industrial Design Studio 4, Project Research, Industrial Design Management and Practice, 2 Open Electives, Industrial Design Project, general education course

Career Opportunities
As a graduate, you can pursue a career as a product designer within a design consultancy, product designer within a multi-disciplinary design team (architectural and engineering consultancies), product designer within the manufacturing sector (consumer and public access products – electrical, transport, scientific, medical, retail, furniture, telecommunications), digital multimedia designer, product branding and marketing, packaging designer, exhibition designer or graphic designer.

Professional Recognition
The Bachelor of Industrial Design is recognised by the Design Institute of Australia, the professional body representing industrial, graphic and interior designers.

Bachelor of Media Arts (Honours)

Program code 4816

Faculty COFA

Minimum years 4 years

Units of credit 48/192

Semester 2 entry Yes

Estimated first year tuition A$25,920

Estimated fee to complete A$117,040

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4816.html

Website www.cofa.unsw.edu.au

For studio-based programs an overall IELTS score of 6.0 and a minimum 5.5 in each of the sub-tests will be accepted.

The Bachelor of Media Arts (Honours) is an innovative, industry-leading program that provides a foundation in creative media production using contemporary digital tools. Media Arts graduates are well equipped to join the workforce. By doing an honours year you demonstrate creativity, self-motivation and a professional level of research ability. And most importantly, by undertaking an internship, you will gain valuable work experience.

In the first year, you will undertake a foundation year made up of COFA gateway courses. Media arts, fine arts and design students work alongside each other, encouraging multidisciplinary engagement and allowing you to gain skills and ways of thinking that are applicable to a wide range of studio practices. As a media arts student you will focus on studio areas appropriate to the degree in the media arts gateway and the prescribed elective courses.

In your second and third year of study, you will choose a media arts studio stream from animation and visual effects, video sound image or cross media arts. You will also need to choose a second studio stream in the same media arts studio area or another from media arts, fine arts or design (*see below).

The fourth year is an honours year where you will undertake a major self-initiated project. You will also participate in an industry-based internship where you obtain professional work experience.

YEAR 1
COFA Gateway 1, COFA Gateway 2, Media Arts Gateway 1, Media Arts Gateway 2, Narratives of Modernity, Beyond Modernities, electives

YEAR 2
Media Arts Studio Stream courses in either Animation and Visual Effects, Video Sound Image, or Cross Media Arts; Studio Stream courses from Media Arts, Design or Fine Arts (*see below); Media History/Theory courses, elective, general education course

YEAR 3
Media Arts Studio Stream courses in either Animation and Visual Effects, Video Sound Image, or Cross Media Arts; Studio Stream courses from Media Arts, Design or Fine Arts (*see below), Practices of Research, Professional Practice, elective, general education course

YEAR 4
Honours Studio Practice 1, Honours Studio Practice 2, industry placement, seminar courses, elective courses

*STUDIO STREAMS
Media Arts Studio Streams: Animation and Visual Effects, Video Sound Image, Cross Media Arts

Design Studio Streams: Graphics Media or Object Design or Spatial Design or Jewellery or Ceramics

Fine Arts Studio Streams: Painting or Drawing or Photography or Printmaking or Sculpture Installation Performance or Textiles

Career Opportunities
The Bachelor of Media Arts (Honours) produces creative content developers with sound technical skills, the ability to work creatively and collaboratively across diverse media platforms, undertake research and experimentation in digital media. As a graduate, you will be key players in the arts, digital media, entertainment and internet-based media with strengths in creative design and technical innovation.

SEE ALSO
Bachelor of Fine Arts (Honours) - page 28
Bachelor of Science (Computer Science)/Bachelor of Media Arts - page 52

Economics

Bachelor of Economics

Program code 3543

Faculty Australian School of Business

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$33,360

Estimated fee to complete A$109,080

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3543.html

Website www.asb.unsw.edu.au/futurestudents

The Bachelor of Economics is a very flexible degree, offering you the ability to obtain a strong professional qualification which will develop your analytical and statistical skills. You will be able to study one of three economic majors and the option to choose a second major from the Bachelor of Commerce, mathematics, statistics or psychology from the science degree, or any of the many Bachelor of Arts majors.

Program Structure
The first year of study provides an understanding of economic theory and business statistics, and an introduction to the application of economics to contemporary issues. This helps you to choose the right economics major for your studies. You will then have the option to choose a second major to study in the degree.

Compulsory first and second year core courses:
Accounting and Financial Management, 1A Microeconomics 1, Macroeconomics 1, Quantitative Analysis Business and Economic Statistics, Economic Analysis, Microeconomics 2, Introductory Econometrics

MAJORS
In your second and third year of study, you can choose one or two majors of study.

Economics majors:
Econometrics focuses on the development and application of quantitative methods to model everything from individual consumer behavior through to the collective workings of the economy.

Economics analyses decision making by individuals, business, government and global organisations. It deals with important issues such as the economic growth and development, public policy design and implementation, and the means to improve overall efficiency and living standards. It offers the greatest flexibility of choice amongst a wide variety of economics courses.

Financial Economics focuses on understanding how individuals, firms and markets manage financial risk. It analyses decision making by business, government and global organisations, the causes and effects of inflation, and income distribution.

Other majors:
Accounting, Business Law, Finance, Human Resource Management, Information Systems, International Business, Management, Marketing, Taxation, Mathematics, Psychology, Statistics, and any major offered in the Bachelor of Arts.

Career Opportunities
Graduates in the various economics disciplines find employment in many areas of business and government. Specific job tasks can vary enormously, providing the potential for a challenging and exciting career. Graduates with good qualifications in economics typically work as professional economists. They are sought after by major economic policy government departments, private sector employers and international organisations. Private sector employers include: major economic consulting firms, retail and investment banks, and financial service providers.

Dual Award Degrees

Bachelor of Economics/Bachelor of Arts

Program code 3552

Faculty Australian School of Business

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$29,880

Estimated fee to complete A$134,680

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3552.html

Website www.asb.unsw.edu.au/futurestudents

Bachelor of Economics/Bachelor of Science

Program code 3563

Faculty Australian School of Business

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$33,840

Estimated fee to complete A$152,080

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3563.html

Website www.asb.unsw.edu.au/futurestudents

SEE ALSO
Bachelor of Commerce - page 31
Bachelor of Commerce/Bachelor of Economics page 32
Bachelor of Economics/Bachelor of Laws - page 53
Bachelor of Economics/Bachelor of Education (Secondary) - page 36
Bachelor of Science (Advanced Science) - page 62

Education

Bachelor of Arts/Bachelor of Education (Secondary)

Program code 4054

Faculty Arts and Social Sciences

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$26,400

Estimated fee to complete A$119,680

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4054.html

Website http://education.arts.unsw.edu.au

The combined degree of Bachelor of Arts/Bachelor of Education is a four-year degree for intending secondary school teachers in the arts and humanities.

Program Structure
You combine studies in two approved teaching disciplines with both theoretical and practical aspects of education. In the final two years of the program, you will develop skills in classroom competence and spend 80 days on supervised teaching practice in allocated secondary schools.

Teaching specialisations are available in Aboriginal studies, Chinese, dance, drama (theatre and performance studies), economics, English, English as a second language (ESL), French, geography, German, history, Indonesian, music studies, Japanese, Korean, Spanish (Hispanic studies), legal studies, society and culture.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Career Opportunities
As a graduate, you can work in secondary school teaching in Australia and internationally, as well as in education, corporate training and management.

Professional Recognition
The Bachelor of Arts/Bachelor of Education (Secondary) is recognised by the New South Wales Institute of Teachers. You should check with the employing authority in your home country regarding your eligibility for a teaching position

Bachelor of Commerce/Bachelor of Education (Secondary)

Program code 3462

Faculty Arts and Social Sciences

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$31,620

Estimated fee to complete A$134,440

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3462.html

Website http://education.arts.unsw.edu.au

The combined degree of Bachelor of Commerce/Bachelor of Education is a four-year program for intending secondary school teachers in commerce, economics and business studies.

Program Structure
You will combine studies in your approved teaching disciplines with both theoretical and practical aspects of education. In the final two years of the program, you will develop skills in classroom competence and spend 80 days on supervised teaching practice in allocated secondary schools.

Teaching specialisations are available in business studies and economics.

Career Opportunities
As a graduate, you can work in secondary school teaching in Australia and internationally, as well as careers in education, corporate training and management.

Professional Recognition
The Bachelor of Commerce/Bachelor of Education (Secondary) is recognised by the New South Wales Institute of Teachers. You should check with the employing authority in your home country regarding your eligibility for a teaching position.

Bachelor of Economics/Bachelor of Education (Secondary)

Program code 4058

Faculty Arts and Social Sciences

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$29,880

Estimated fee to complete A$134,680

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4058.html

Website http://education.arts.unsw.edu.au

The combined degree of Bachelor of Economics/Bachelor of Education is a four-year program for intending secondary school teachers in commerce, economics and business studies.

Program Structure
You combine studies in your approved teaching disciplines with both theoretical and practical aspects of education. In the final two years of the program, you will develop skills in classroom competence and spend 80 days on supervised teaching practice in allocated secondary schools.

Teaching specialisations are available in business studies and economics.

Career Opportunities
As a graduate, you can work in secondary school teaching in Australia and internationally, as well as a variety of careers in education, corporate training and management.

Professional Recognition
The Bachelor of Economics/Bachelor of Education (Secondary) is recognised by the New South Wales Institute of Teachers. You should check with the employing authority in your home country regarding your eligibility for a teaching position.

Bachelor of Music/Bachelor of Education (Secondary)

Program code 3446

Faculty Arts and Social Sciences

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry No

Estimated first year tuition A$26,400

Estimated fee to complete A$154,040

Assumed knowledge Audition/Interview required

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3426.html

Website http://sam.arts.unsw.edu.au/

This five-year dual degree combines a professional teaching qualification with a specialist degree in music. You will develop skills, knowledge and understanding relevant to teaching secondary students. The program also introduces issues of professional ethics and responsibilities. You will build your teaching skills and experience through practicum placements in high schools.

Program Structure
The degree consists of core courses in musicology, musicianship, performance and education combined with elective courses in both music and education. You will also complete an intensive pre-professional training in your choice of stream: music creative practice, music inquiry, sonic arts, or music pedagogy.

Career Opportunities
As a graduate, you can work in the areas of secondary teaching, music administration, music production, broadcasting and recording, performance planning, composing and arranging.

Bachelor of Science/Bachelor of Education (Secondary)

Program code 4076

Faculty Arts and Social Sciences

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$32,340

Estimated fee to complete A$136,600

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4076.html

Website http://education.arts.unsw.edu.au

The combined degree of Bachelor of Science/Bachelor of Education is a four-year program secondary school teachers for intending secondary science and mathematics teachers.

Program Structure
You combine studies in your approved teaching disciplines with both theoretical and practical aspects of education. In the final two years of the program, your will develop skills in classroom competence and spend 80 days on supervised teaching practice in allocated secondary schools.

Teaching specialisations are available in mathematics, biology, chemistry, physics, or earth and environmental science.

Career Opportunities
The Education program prepares graduates for professions in secondary school teaching in Australia and internationally, as well as a variety of careers in education, corporate training and management.

Professional Recognition
The Bachelor of Science/Bachelor of Education (Secondary) is recognised by the New South Wales Institute of Teachers. You should check with the employing authority in your home country regarding your eligibility for a teaching position.

Environmental Science

Bachelor of Environmental Science

Program code 3988

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$34,320

Estimated fee to complete A$154,330

Assumed Knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3988.html

Website www.science.unsw.edu.au

This degree involves a core sequence of compulsory courses with a choice of disciplinary specialisations including biology, chemistry, geography, earth science, marine biology, microbiology and oceanography. The program aims to provide a strong education in the skills and knowledge required to conduct research as an environmental scientist.

Program Structure

YEAR 1
Evolutionary and Functional Biology, Chemistry A, Environmental Science 1, Statistics for Life and Social Sciences, Environmental Earth Science, Environmental Systems and Analysis, discipline specialisation courses

YEAR 2
Elements of Environmental Economics, Australian Cultural and Social Environment, Environmental Policy and Law, Mathematical Computing or Data Analysis for Life and Earth Sciences, general education courses, discipline specialisation courses

YEAR 3
Biodiversity Conservation and Management, Environmental Toxicology, Environmental Impact Assessment, general education courses, discipline specialisation courses

YEAR 4
Research project or combination project/coursework

Career Opportunities
Employment opportunities include work for organisations such as the National Parks and Wildlife Service or Environmental Protection Authority; as environmental consultants or environmental officers within industry or with local, state or federal governments; as specialists in environmental policy; and as environmental researchers with the Commonwealth Scientific and Industrial Research Organisation (CSIRO), universities or industry.

Dual Award Degrees

Bachelor of Environmental Science/ Bachelor of Arts

Program code 3932

Faculty Science

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry Yes

Estimated first year tuition A$34,320

Estimated fee to complete A$181,640

Assumed Knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3932.html

Website www.science.unsw.edu.au

SEE ALSO
Bachelor of Arts - page 29
Bachelor of Engineering (Environmental Engineering) page 41
Bachelor of Engineering (Mining Engineering) - page 45
Bachelor of Engineering (Petroleum Engineering) page 46
Bachelor of Engineering (Photovoltaics and Solar Energy) - page 48
Bachelor of Landscape Architecture - page 27
Bachelor of Planning - page 59
Bachelor of Science with major in Biology, Ecology, Earth Science, Geography, or Marine Science - page 60
Bachelor of Science (Advanced) with major in BiologicalScience, Climate Dynamics, Climate Systems Science, Earth Science, Ecology, Geochemistry, Human Geography, Marine and Coastal Science - page 62

Engineering

AEROSPACE ENGINEERING

Bachelor of Engineering (Aerospace Engineering)

Program code 3710

Faculty Engineering

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$151,960

Assumed knowledge Maths, Physics and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3710.html

Website www.mech.unsw.edu.au

Aerospace engineering is concerned with the science and practice of air and space flight, the design, development, testing and production of aerospace vehicles, the maintenance and operation of aircraft and in aerospace research.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Engineering Mechanics Electives including: Design and Manufacturing, Engineering Materials and Chemistry

YEAR 2
Engineering Mathematics, Engineering Design, Mechanics of Solids, Fluid Mechanics, Electrical and Telecommunications Engineering, Numerical Methods and Statistics, Thermodynamics, general education courses

YEAR 3
Linear Systems and Control, Aerospace Structures, Flight Mechanics and Dynamics, Aerospace Design, Aerospace Systems and Avionics, Aerodynamics, Propulsion and Experimentation, general education courses

YEAR 4
Engineering Management, Professional Engineering, Aerospace Design Project A and B, Thesis

Career Opportunities
Graduates find employment in the aerospace design and manufacturing industry including aerospace companies, airlines, defence forces and government regulators.

Professional Recognition
This degree is accredited by Engineers Australia and the Royal Aeronautical Society.

Dual Award Degrees

Bachelor of Engineering (Aerospace Engineering)/ Bachelor of Arts

Program code 3704

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes*

Estimated first year tuition A$34,080

Estimated fee to complete A$200,380

Assumed knowledge Maths, Physics and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html

Website www.mech.unsw.edu.au

Bachelor of Engineering (Aerospace Engineering)/ Bachelor of Commerce

Program code 3715

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$217,360

Assumed knowledge Maths, Physics and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html

Website www.mech.unsw.edu.au

Bachelor of Engineering (Aerospace Engineering)/ Bachelor of Science

Program code 3711

Faculty Engineering

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$196,820

Assumed knowledge Maths, Physics and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3711.html

Website www.mech.unsw.edu.au

BIOMEDICAL ENGINEERING

Dual award degrees in biomedical engineering allows you to study a Master of Biomedical Engineering simultaneously with a Bachelor of Engineering, graduating after five years study with two separate degrees. Biomedical engineering involves solving health care problems including disease prevention and treatment, or rehabilitation by using an engineering approach. The scope of the field is enormous but biomedical engineers can expect to work on topics and in areas such as: developing systems to maintain and enhance life; designing and developing prostheses, artificial organs and organ replacement devices; and designing, developing and refining medical imaging systems.

Program Structure
The first year provides grounding in mathematics, physics and basic classes in areas such as chemistry, computing and basic research and reporting skills. As you progress through your following four years, an increasing number of postgraduate biomedical classes are added to your program.

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

E
Engineering (Bioinfomatics)

Sample Program
Bachelor of Engineering (Mechanical Engineering)/ Master of Biomedical Engineering

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Engineering Mechanics, Engineering in Medicine and Biology, Engineering Materials and Chemistry, Design for Manufacture

YEAR 2
Engineering Mathematics, Electrical and Telecommunications Engineering, Engineering Materials and Chemistry, Numerical Methods and Statistics, Mechanics of Solids, Thermodynamics, Fluid Mechanics, Clinical Laboratory Science

YEAR 3
Fundamentals of Anatomy, Engineering Design 2, Engineering Experimentation, Linear Systems and Control, Advanced Thermofluids, Engineering Mechanics 2, Principles of Physiology A, Biomedical Engineering or Principles of Physiology B

YEAR 4
Mechanical Design 1, Computational Engineering, Mechanics of Solids 2, Professional Engineering, Engineering Management, Biomedical Engineering, Elective, Thesis A, general education courses

YEAR 5
Professional elective, Mechanical Design 2, Thesis B, Regulatory Requirements of Biotechnology, biomedical engineering elective, biomedical engineering electives, project report

Career Opportunities
Biomedical engineers may seek work in any of the traditional areas associated with their chosen Bachelor of Engineering discipline and also in public and private medical research laboratories, medical device industry, hospitals, universities, health care management, and the bioprocessing, biomechanical and biotechnology industries.

Professional Recognition
This degree is accredited by Engineers Australia. The Master of Biomedical Engineering is recognised by the College of Biomedical Engineers and Engineers Australia.

Bachelor of Engineering (Bioinformatics)/ Master of Biomedical Engineering

Program code 3757
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,140
Estimated fee to complete A$195,800
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3757.html
Website www.gsbme.unsw.edu.au

Bachelor of Engineering (Chemical Engineering)/ Master of Biomedical Engineering

Program code 3048
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$195,680
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3048.html
Website www.gsbme.unsw.edu.au

Bachelor of Engineering (Computer Engineering)/ Master of Biomedical Engineering

Program code 3728
Faculty Engineering
Minimum years 5 years
Units of Credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$195,620
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3728.html
Website www.gsbme.unsw.edu.au

Bachelor of Engineering (Electrical Engineering)/ Master of Biomedical Engineering

Program code 3727
Faculty Engineering
Minimum years 5 years
Units of Credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$195,710
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3727.html
Website www.gsbme.unsw.edu.au

Bachelor of Engineering (Materials Science and Engineering)/Master of Biomedical Engineering

Program code 3138
Faculty Engineering
Minimum years 5 years
Units of Credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,140
Estimated fee to complete A$197,870
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3138.html
Website www.gsbme.unsw.edu.au

Bachelor of Engineering (Mechanical Engineering)/ Master of Biomedical Engineering

Program code 3683
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$195,920
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3683.html
Website www.gsbme.unsw.edu.au

Note: This program is under review. Please contact the Program Coordinator for further details.

Bachelor of Engineering (Mechatronic Engineering)/Master of Biomedical Engineering

Program code 3688
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$195,920
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3688.html
Website www.gsbme.unsw.edu.au

Note: This program is under review. Please contact the Program Coordinator for further details.

Bachelor of Engineering (Software Engineering)/ Master of Biomedical Engineering

Program code 3749
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,020
Estimated fee to complete A$195,470
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3749.html
Website www.gsbme.unsw.edu.au

Bachelor of Engineering (Telecommunications Engineering)/Master of Biomedical Engineering

Program code 3723
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$195,620
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3723.html
Website www.gsbme.unsw.edu.au

CHEMICAL ENGINEERING

Bachelor of Engineering (Chemical Engineering)

Program code 3040
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,140
Estimated fee to complete A$152,080
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3040.html
Website www.chse.unsw.edu.au

Chemical engineering bridges the study of the chemical and physical sciences with engineering. It involves the operation and optimisation of chemical processes and creates the devices and industrial plants related to chemical, biological and environmental processes.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, and one of the following pairs of courses: Engineering Materials and Chemistry plus Engineering Chemistry; Chemistry A plus Chemistry B, Higher Chemistry A plus Higher Chemistry B, electives

YEAR 2
Engineering Mathematics, Numerical Methods and Statistics, Material and Energy Systems, Fluid and Particle Mechanics, Heat and Mass Transfer, Industrial Chemistry for Chemical Engineers, Chemical Reaction Engineering, general education courses

YEAR 3
Process Modelling and Analysis, Advanced Thermodynamics and Separation, Chemical Engineering Laboratory, Process Equipment Design, Process Plant Design, Process Dynamics and Control, general education courses

YEAR 4
Environment and Sustainability, Process Design Project, Professional Elective Breadth, 2 professional Electives Depth, Thesis A and Thesis B

Career Opportunities
Chemical engineers design and operate large-scale chemical process equipment and factories safely, efficiently and in an environmentally responsible manner. They produce a diverse range of materials from fuels and circuit boards to processed foods, life saving pharmaceuticals and filtered clean water. They also develop alternative energy sources – alcohol and biofuels from crops and efficient ways to utilise solar energy.

Professional Recognition
This degree is fully accredited by Engineers Australia. Recognition of the accreditation of the degree is given by countries who are signatories to the Washington Accord (see www.washingtonaccord.org).

Dual Award Degrees

Bachelor of Engineering (Chemical Engineering)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.chse.unsw.edu.au

Bachelor of Engineering (Chemical Engineering)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.chse.unsw.edu.au

Bachelor of Engineering (Chemical Engineering)/ Bachelor of Science

Program code 3042
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3042.html
Website www.chse.unsw.edu.au

CIVIL ENGINEERING

Bachelor of Engineering (Civil Engineering)

Program code 3620
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$151,930
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3620.html
Website www.civeng.unsw.edu.au

The Civil Engineering program provides an extensive knowledge of the broad field of civil engineering – including the design, construction and management of civil infrastructure – and a deeper specialised knowledge of engineering construction management, geotechnical engineering, structural engineering, transport engineering and/or water engineering. It also provides you with the skills necessary for problem solving, critical thinking, good communication, teamwork, independent investigation, effective management, and sustainable practice.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Engineering Mechanics, Electives including: Engineering Materials and Chemistry, Surveying and GIS 1

YEAR 2
Mechanics of Solids, Engineering Mathematics, Principles of Water Engineering, Engineering Construction, Soil Mechanics, Materials and Structures, Engineering Computations for Civil Engineers, general education courses

YEAR 3
Sustainable Transport and Highway Engineering, Applied Geotechnics and Engineering Geology, Structural Analysis and Modelling, Water Resources Engineering, Structural Behaviour and Design, Engineering Operations and Control, Water and Wastewater Engineering, Civil Engineering Practice

YEAR 4
Professional Electives, Honours Thesis or Design Practice, general education courses

Career Opportunities
Many civil engineers work in an office environment where they investigate, plan, design and manage projects; others manage and supervise construction projects on site. Employment can be found with specialist consulting firms, construction and contracting companies, large public companies, federal, state and local government organisations, airport and harbour authorities, project developers, financial and management consultants, and many more.

Professional Recognition
This degree is fully accredited by Engineers Australia. Substantial or complete recognition of the degree is also given in most countries around the world.

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Bachelor of Engineering (Civil Engineering with Architecture)

Program code 3624
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry No
Estimated first year tuition A$33,510
Estimated fee to complete A$148,210
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3624.html
Website www.civeng.unsw.edu.au

The civil engineering program with architecture includes courses from UNSW Built Environment in architectural communications, design and history as well as providing a thorough grounding in basic science, mathematics and civil engineering courses – in engineering construction, mechanics, operations and control, materials and structures, and water engineering. You will therefore receive a broad effective knowledge of civil engineering as well as the mathematical ability to challenge the traditional boundaries of structural design and be well qualified to collaborate with architects to produce integrated, sustainable design.

Dual Award Degree Programs

Bachelor of Engineering (Civil Engineering)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Civil Engineering)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Civil Engineering)/ Bachelor of Engineering (Environmental Engineering)

Program code 3631
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$195,500
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3631.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Civil Engineering)/ Bachelor of Engineering (Mining Engineering)

Program code 3146
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$195,410
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3146.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Civil Engineering)/ Bachelor of Science

Program code 3730
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3730.html
Website www.civeng.unsw.edu.au

ELECTRICAL ENGINEERING

Bachelor of Engineering (Electrical Engineering)

Program code 3640
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,020
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3640.html
Website www.eet.unsw.edu.au

The focus in electrical engineering is on design, development, manufacturing and management of complex hardware and software systems and reliable cost-effective devices, many involving the use of new information and computer-intensive technologies. The degree includes courses in telecommunications, photonics, systems and control, energy systems, microelectronics and signal processing.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Computing, Engineering Design, electives including: Electrical and Telecommunications Engineering, Computing 1B

YEAR 2
Mathematics, Computing 1B or Computing 2, Circuits and Signals, Digital Circuit Design, Analogue Electronics, general education courses

YEAR 3
Electromagnetic Engineering, Electronics, Digital Signal Processing, Electrical Energy, Control Systems, Electrical Engineering Design, Embedded Systems Design, Electronics, general education courses

YEAR 4
Electrical Design Proficiency, Professional Electives, Strategic Leadership and Ethics, Thesis

Career Opportunities
Potential employers include service industries such as Telstra, Optus and electricity authorities; large private industrial groups, such as Ericsson, Alstrom, BHP, Boeing Australia, Honeywell, Motorola, IBM and Alcatel; small innovative private firms specialising in the application of new technologies to new products and services, in a range of areas such as telecommunications and wireless electronics, internet services and biomedical instrumentation.

Professional Recognition
This degree is fully accredited by Engineers Australia. Recognition of the accreditation of the degree is given by countries who are signatories to the Washington Accord (see www.washingtonaccord.org).

Dual Award Degrees

Bachelor of Engineering (Electrical Engineering)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.eet.unsw.edu.au

Bachelor of Engineering (Electrical Engineering)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.eet.unsw.edu.au

Bachelor of Engineering (Electrical Engineering)/ Bachelor of Science

Program code 3725
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3725.html
Website www.eet.unsw.edu.au

Dual Award Degrees

Bachelor of Engineering/Master of Engineering (Electrical Engineering)

Program code 3731
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$195,260
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3731.html
Website www.eet.unsw.edu.au

This is an integrated Bachelor and Master of Engineering degree in electrical engineering with a minor in an area other than electrical engineering. It is a five-year degree with entry aimed at elite students.

Note: This program is under CRICOS registration review. Please contact the Program Coordinator for further details.

ENVIRONMENTAL ENGINEERING

Bachelor of Engineering (Environmental Engineering)

Program code 3625
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,020
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3625.html
Website www.civeng.unsw.edu.au

The Environmental Engineering program enables graduates to design and manage effective and sustainable solutions using their acquired knowledge of engineering and environmental processes. After grounding in basic science and mathematics, the environmental engineering program will develop skills in project management, design of sustainable systems, water resource management, transportation economics and project evaluation. Aspects of chemical engineering, applied and biological sciences and environmental studies are also taught.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Chemistry, electives including: Engineering Mechanics, Environmental Principles and Systems

YEAR 2
Ecology Sustainability and Environmental Science, Water and Atmospheric Chemistry, Material and Energy Balances in the Chemical Process Industry, Soil Mechanics, Principles of Water Engineering, Engineering Computations for Environmental Engineers, Engineering Mathematics, general education courses

YEAR 3
Environmental Frameworks, Applied Geotechnics and Engineering Geology, Transport Engineering and Environmental Sustainability, Water Resources Engineering, Solid Wastes and Contaminant Transport, Engineering Operations and Control, Water and Wastewater Engineering, Environmental Engineering Practice

YEAR 4
Planning Sustainable Infrastructure, Professional Electives, Honours Thesis or Design Practice, general education courses

Career Opportunities
Some environmental engineers work in an office environment where they investigate, plan, design and manage projects. Others are involved in field studies working on site. Most manage to combine both office and field work in an exciting, challenging and rewarding career.

Professional Recognition
This degree is fully accredited by Engineers Australia. Recognition of the accreditation of the degree is given by countries who are signatories to the Washington Accord (see www.washingtonaccord.org).

Dual Award Degrees

Bachelor of Engineering (Environmental Engineering)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Environmental Engineering)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Civil Engineering)/ Bachelor of Engineering (Environmental Engineering)

Program code 3631
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$195,500
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3631.html
Website www.civeng.unsw.edu.au

Bachelor of Engineering (Environmental Engineering)/Bachelor of Science

Program code 3735
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3735.html
Website www.civeng.unsw.edu.au

INDUSTRIAL CHEMISTRY

Bachelor of Engineering (Industrial Chemistry)

Program code 3100
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,140
Estimated fee to complete A$152,440
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3100.html
Website www.chse.unsw.edu.au

Industrial chemistry is the link between research lab chemistry and industrial scale chemical engineering. It requires a broad understanding of both chemistry and chemical engineering concepts. Industrial chemistry focuses on the transition of small scale discoveries into large scale, mass produced products and on optimising chemical processes in the chemical and process industries. Industrial chemistry plays an important role in the environmental management

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

and control of industrial processes and is the leading science behind improving their safety and efficiency to ensure a clean future.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, one of the following: Chemistry A or Higher Chemistry A and Chemistry B or Higher Chemistry B or Engineering Materials and Chemistry, electives including: Sustainable Product Engineering and Design

YEAR 2
Engineering Mathematics, Numerical Methods and Statistics, Materials and Energy Systems, Fluid Mechanics and Particles, Chemical Reaction Engineering, Organic Chemistry, Instrumental Analysis, general education courses

YEAR 3
Polymer Science, Applied Industrial Chemistry, Organic Chemistry, Heat and Mass Transfer, Environmental Science and Technology, Inorganic Chemistry, Process Dynamics and Control, general education courses

YEAR 4
Process Design Project, Environment and Sustainability, Professional Elective, Thesis A and Thesis B

Career Opportunities
As a graduate, you can work in the chemical and process industries as a research scientist, development chemist, technical representative or as a plant/company manager. Graduates may find employment with pharmaceutical, cosmetic or food industries; mineral processing plants; polymer, new materials, paper, fertiliser and wine making industries or major companies involved in pollution control.

Professional Recognition
This degree is accredited by the Royal Australian Chemical Institute and Engineers Australia.

Dual Award Degree Programs

Bachelor of Engineering (Industrial Chemistry)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.chse.unsw.edu.au

Bachelor of Engineering (Industrial Chemistry)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.chse.unsw.edu.au

Bachelor of Engineering (Industrial Chemistry)/ Bachelor of Science

Program code 3102
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3102.html
Website www.chse.unsw.edu.au

SEE ALSO
Bachelor of Engineering (Bioinformatics) - page 50
Bachelor of Engineering (Computer Engineering) page 50
Bachelor of Engineering (Software Engineering) page 51
Bachelor of Engineering (Surveying and Geoinformation Systems) - page 42
Bachelor of Science and Bachelor of Science (Advanced Science) in various majors - pages 60 - 62
Bachelor of Science (Computer Science) - page 52

GEOINFORMATION SYSTEMS

Bachelor of Engineering (Surveying and Geoinformation Systems)

Program code 3742
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$151,870
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/plans/current/GMATG13742.html
Website www.sage.unsw.edu.au

This program aims to prepare a graduate for a broad range of career opportunities in the various branches of geoinformation technologies and applications. To this end the program covers general geoinformation principles, as well as specialised geoinformation practice. The Bachelor of Engineering in Geoinformation Systems is designed to produce geospatial-IT-literate graduates with the appropriate mix of skills for the new digital 'geoinformation' industries that require graduates to create digital maps, manipulate satellite/airborne images, build geoweb and mobile applications, set up GIS, monitor environmental parameters, and so on.

Program Structure
A typical program sequence is shown below:

YEAR 1
Mathematics, Physics, Computing 1, Engineering Design, Surveying and GIS, electives including: Computing 2 and Land Resource Assessment

YEAR 2
Computing 2, Engineering Design in Computing, GIS in Practice, Surveying Computations and CAD, Data Analysis by Least Squares, Geodesy and Spatial Reference, Numerical Methods and Statistics, electives, general education courses

Note: If Computing 2 is taken as a Year 1 elective, Software Construction is a suggested Year 2 elective. Another acceptable elective is Electronic Survey Instruments.

YEAR 3
Field Projects, GeoInformation Science, Cadastral Surveying and Land Law, Earth Observation Systems and Applications, Precise GPS Positioning, general elective, 2 electives from the following: Object-Oriented Programming, Database Systems, Computer Graphics, Human Computer Interaction, Electronic Survey Instruments, Surveying Applications

YEAR 4
Field Projects Survey Business Management, Practical Experience, Thesis, 4 electives

Electives can be chosen from the following: User Interface Design and Construction, Advanced Graphics, Database Systems Implementation, Data Warehousing and Data Mining, Web Applications Engineering, Service-Oriented Architectures, e-Enterprise Project, Machine Learning and Data Mining, Computer Vision, Environmental Impact Assessment, Land Management and Development Project 1, Land Management and Development Project 2, Sustainable Land Development, Principles of GPS Positioning, GeoIT and Infomobility Applications, Modern Geodesy, Aerial and Satellite Imaging Systems

Career Opportunities
As a graduate, you will be highly employable in a growing variety of careers using GPS, geodatabase systems, satellite imagery and remote sensing to enable effective decision making in areas from emergency services and health, to management of resources and the environment.

Professional Recognition
The Bachelor of Engineering (GeoInformation Systems) is recognised by the Surveying and Spatial Sciences Institute and Engineers Australia for admission as corporate members.

Dual Award Degrees

Bachelor of Engineering (Surveying and Geoinformation Systems)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed Knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.sage.unsw.edu

For further information on Dual Award Degrees please contact the School of Surveying and Spatial Information Systems on survis@unsw.edu.au or visit www.ssis.unsw.edu.au

Bachelor of Engineering (Surveying and Geoinformation Systems)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.chse.unsw.edu.au

Bachelor of Engineering (Surveying and Geoinformation Systems)/Bachelor of Science

Program code 3102
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3102.html
Website www.chse.unsw.edu.au

LAW AND ENGINEERING

Bachelor of Engineering/Bachelor of Laws

Program code 4778
Faculty Law
Minimum years 6.5 years
Units of credit (per year/total) 48/312
Semester 2 entry Yes
Estimated first year tuition A$33,720
Estimated fee to complete A$261,320
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4778.html
Website www.law.unsw.edu.au

This dual award degree program is intended for potential engineers who wish to become more aware of the legal and social aspects in the engineering profession and skilled in technological management. It is also for legal practitioners who wish to add a strong technical dimension to their education and training.

Note: The dual award degree program is not offered in bioinformatics or software engineering.

MANUFACTURING ENGINEERING AND MANAGEMENT

Bachelor of Engineering (Manufacturing Engineering and Management)

Program code 3710
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$151,960
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3710.html
Website www.mech.unsw.edu.au

This degree develops your understanding of the planning, development and control of manufacturing or service operations. Manufacturing management engineers apply basic scientific and engineering knowledge predominantly to manufacturing systems, although the analytical fact finding approach of the manufacturing engineer is applicable to almost any business or service enterprise.

Program Structure
A typical program sequence is shown below.

YEARS 1 AND 2
See Bachelor of Engineering (Aerospace Engineering) entry for Year 1 and Year 2 courses on page 37

YEAR 3
Linear Systems and Control, Mechanics of Solids, Product and Manufacturing Design, Manufacturing Operations, Manufacturing Facilities Design 1, Experimental and Reliability Engineering, Computer Applications in Manufacturing, general education courses

YEAR 4
Engineering Management, Manufacturing Facilities Design 2, Production Planning and Control, Professional Engineering, Thesis, electives

Career Opportunities
Graduates may find employment with companies involved in product design and development, manufacturing companies of all types, service providers such as banks or forwarding agencies, distribution companies, warehousing and logistics, consulting companies undertaking a variety of tasks such as the economic analysis of planning and implementation of strategies and technologies.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degree Programs

Bachelor of Engineering (Manufacturing Engineering and Management) /Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704
Website www.mech.unsw.edu.au

Bachelor of Engineering (Manufacturing Engineering and Management)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Manufacturing Engineering and Management)/Bachelor of Science

Program code 3711
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3711.html
Website www.mech.unsw.edu.au

MATERIALS SCIENCE AND ENGINEERING

Bachelor of Engineering (Materials Science and Engineering)

Program code 3135
Faculty Science
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,140
Estimated fee to complete A$154,300
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3135.html
Website www.materials.unsw.edu.au

Materials science and engineering is a broad-ranging discipline, which applies the principles of science and engineering to the development of metallic, ceramic and polymeric materials, their manufacture into finished products and their subsequent performance in service. Major areas of study are physical metallurgy, process metallurgy, materials engineering and ceramic engineering.

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Computing for Engineers, Engineering Design, Physics, Design and Application of Materials

YEAR 2
Diffusion and Kinetics, Engineering Mathematics, Fluid Flow and Heat Transfer, Materials Characterisation, Physical Properties of Materials, Thermodynamics and Phase Equilibria, Mechanical Behaviour of Materials, Sustainable Materials Processing

YEAR 3
Numerical Methods and Statistics, Mechanical Behaviour in Metals, Fundamentals of Ceramic Processes, Design and Application of Materials Science and Engineering, Materials Industry Management, Polymer Science and Engineering, Professional Electives, general education courses

YEAR 4
Materials Engineering Project, professional electives, general education courses

Sample list of professional electives: Engineering in Metallurgy, Phase Transformations, Secondary Processing of Metals, Design and Advanced Ceramics, Process Metallurgy Advanced, Fracture Mechanics and Failure, Composites and Functional Materials, Polymer Science and Engineering, Engineered Surfaces

Career Opportunities
As a materials science and engineering graduate, you can find employment with primary production industries, research and development in industrial laboratories or research institutions, consultants, the materials producing industries, utilities (such as power generators, railways and airlines) or the manufacturing sector.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Materials Science and Engineering)/ Bachelor of Engineering (Chemical Engineering)

Program code 3137
Faculty Science/Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$197,210
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3137.html
Website www.materials.unsw.edu.au

This dual award degree program is designed for students wishing to pursue a career in materials/chemical engineering with professional accreditation in both disciplines. The Bachelor of Engineering in Materials Science and Engineering has specialised academic plans in process metallurgy, physical metallurgy, ceramic engineering or materials engineering. The program includes industrial experience of a minimum of 12 weeks to be taken during the vacation period.

Professional Recognition
Engineers Australia recognises the Bachelor of Engineering in both Materials Science and Engineering and Chemical Engineering. In addition, the Bachelor of Chemical Engineering is accredited by the Institution of Chemical Engineers.

Bachelor of Engineering (Materials Science and Engineering) /Bachelor of Commerce

Program code 3136
Faculty Science
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$219,430
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3136.html
Website www.materials.unsw.edu.au

Bachelor of Engineering (Materials Science and Engineering)/Master of Biomedical Engineering

Program code 3138
Faculty Science
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,140
Estimated fee to complete A$197,870
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3138.html
Website www.materials.unsw.edu.au

MECHANICAL ENGINEERING

Bachelor of Engineering (Mechanical Engineering)

Program code 3710
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$151,960
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3710.html
Website www.mech.unsw.edu.au

Mechanical engineering uses physics and materials science to analyse, design and manufacture machines and their components. You will learn concepts such as thermodynamics, fluid mechanics and solid mechanics to prepare them for the more 'hands on' work in your later years of study.

Program Structure
A typical program sequence is shown below.

YEARS 1 AND 2
See Bachelor of Engineering (Aerospace Engineering) entry for Year 1 and Year 2 courses on page 37

YEAR 3
Linear Systems and Control, Mechanics of Solids, Engineering Mechanics, Mechanical Design, Engineering Experimentation, Computational Engineering, Advanced Thermofluids, general education courses

YEAR 4
Engineering Management, Professional Engineering, Mechanical Design 2, Fundamentals and Advanced Vibrations, professional electives, Thesis

Career Opportunities
Mechanical engineers are involved in a wide variety of essential industries. Graduates may find employment with major companies operating in diverse manufacturing industries such as car building; machine design and construction companies; consulting companies which provide specialised services such as stress analysis, noise and vibration analysis and building services design; power and water supply companies.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Mechanical Engineering)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Mechanical Engineering)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Mechanical Engineering)/Bachelor of Science

Program code 3711
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3711.html
Website www.mech.unsw.edu.au

MECHATRONIC ENGINEERING

Bachelor of Engineering (Mechatronic Engineering)

Program code 3710
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$151,960
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3710.html
Website www.mech.unsw.edu.au

Mechatronic engineers develop skills in mechanical engineering, electrical engineering and computer science. The concepts learned across all of these disciplines enable you to design, construct and control a range of intelligent machines, from robots to flying vehicles.

Program Structure
A typical program sequence is shown below.

YEARS 1 AND 2
See Bachelor of Engineering (Aerospace Engineering) entry for Year 1 and Year 2 courses on page 37

YEAR 3
Linear Systems and Control, Mechanics of Solids, Engineering Mechanics, Elements of Mechatronic Systems, Robot Design, Computing Applications in Mechatronic Systems, Modelling and Control of Mechatronic Systems, general education courses

YEAR 4
Engineering Management, Advanced Autonomous Systems, Professional Engineering, Robotics, Thesis, professional electives

Career Opportunities
Mechatronic engineers can find employment throughout the range of fields which are normally covered by mechanical, electrical and computer engineering. You may find employment with companies which design and manufacture consumer machines; companies which design, manufacture and install specialised industrial machines; companies whose primary interests relate to mechanical or electrical or computer engineering; and with consulting engineers dealing with complex project management across a range of engineering disciplines.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Mechatronic Engineering)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Mechatronic Engineering)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Mechatronic Engineering)/Bachelor of Science

Program code 3711
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3711.html
Website www.mech.unsw.edu.au

MINING ENGINEERING

Bachelor of Engineering (Mining Engineering)

Program code 3140
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$152,110
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3140.html
Website www.mining.unsw.edu.au

Mining engineering is concerned with the technical, financial and management aspects of mineral resource recovery, processing, marketing, financing and management. Mining engineering programs include elements from a number of other disciplines such as geology, metallurgy, commerce, economics and management.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, electives including: Engineering Mechanics, Mineral Resources Engineering, Fundamentals of Geology, Engineering Materials and Chemistry

YEAR 2
Engineering Mathematics, Mining Project Development, Numerical Methods and Statistics, Mechanics of Solids, Introduction to Fluid Flow and Heat Transfer, Minerals and Processing, Mining Services, general education courses

YEAR 3
Resource Estimation and Evaluation, Mining Geomechanics, Mining Systems, Socio-Environmental Aspects of Mining, Mine Planning, Mine Ventilation, Rock Breakage, General Education courses, and one of the following: Minerals and Processing, Advanced Minerals Processing, Surface Mining Systems, Underground Mining Systems

YEAR 4
Hardrock Feasibility Project, Coal Feasibility Project, Mine Geotechnical Engineering, Mining Research Project 1, Mining Research Project 2, Mine Management, general education courses, and one of the following: Mining Systems, Underground Mining Systems, Advanced Geotechnical Engineering, Advanced Mine Ventilation, Mining Asset Management and Services, Mining in a Global Environment, Advanced Minerals Processing

Career Opportunities
Many mining engineers spend between one and three years gaining work experience at mine sites and may then elect to gain their statutory mine manager's qualifications. As a graduate, you can find employment in areas such as mine production and management, corporate management, financial analysis and merchant banking, computer software development and automation, consulting and government.

Professional Recognition
This degree is accredited by Engineers Australia, the Australasian Institute of Mining and Metallurgy and the corresponding professional bodies in the United States, the United Kingdom and other countries. The degree is also accredited for Statutory Mine Managers Certificates, both coal and metalliferous, throughout Australia and internationally.

Dual Award Degrees

Bachelor of Engineering (Mining Engineering)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.mining.unsw.edu.au

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Bachelor of Engineering (Mining Engineering)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3142.html
Website www.mining.unsw.edu.au

SEE ALSO
Bachelor of Engineering (Civil Engineering)/Bachelor of Engineering (Mining Engineering) - page 40

Bachelor of Engineering (Naval Architecture)

Program code 3710
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$151,960
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3710.html
Website www.mech.unsw.edu.au

In this program, you will be introduced to naval architecture with industry visits to see the design, maintenance and operation of ships first-hand. Naval architecture subjects include hydrostatics and hydrodynamics, ship structures, marine engineering, resistance and propulsion, and contracts and tendering. In the final year of the degree, you will focus on the design of yachts and high-speed craft, as well as your own ship design project.

Bachelor of Engineering (Mining Engineering)/ Bachelor of Science

Program code 3142
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3142.html
Website www.mining.unsw.edu.au

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Engineering Mechanics electives including: Design and Manufacturing, Engineering Materials and Chemistry

YEAR 2
Engineering Mathematics, Engineering Design, Mechanics of Solids, Fluid Mechanics, Electrical and Telecommunications Engineering, Numerical Methods and Statistics, Thermodynamics, general education courses

YEAR 3
Linear Systems and Control, Mechanics of Solids, Ship Structures, Hydrostatics and Practice, Ship Design and Propulsion, Ship Hydrodynamics, Ship Standards and Marine Engineering, general education courses

YEAR 4
Engineering Management, Ship Design Project, Professional Engineering, Thesis, professional electives

Career Opportunities
As a graduate, you can work in naval architecture firms and consultancy, government, and offshore engineering projects. Graduates may also find employment in sailing yacht design, ship classification societies and ship owner organisations.

Professional Recognition
This degree is accredited by Engineers Australia and the Royal Institution of Naval Architects.

Dual Award Degrees

Bachelor of Engineering (Naval Architecture)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Naval Architecture)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.mech.unsw.edu.au

Bachelor of Engineering (Naval Architecture)/ Bachelor of Science

Program code 3711
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3711.html
Website www.mech.unsw.edu.au

PETROLEUM ENGINEERING

Bachelor of Engineering (Petroleum Engineering)

Program code 3045
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,020
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3045.html
Website www.petrol.unsw.edu.au

This degree prepares graduates for careers in the production of oil and gas. It involves the application of basic chemistry, physics, mathematics and geology to the development of petroleum and other subsurface energy resources.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Engineering Materials and Chemistry suggested electives including: Fundamentals of Petroleum Geology, Introduction to the Petroleum Industry

YEAR 2
Fundamentals of Petroleum Geology, Chemical Engineering Fundamentals, Introduction to the Petroleum Industry, Business Practices in the Petroleum Industry, Engineering Mathematics, Introduction to Petrophysics, Reservoir Engineering A, general education courses

YEAR 3
Reservoir Engineering B, Field Development Geology and Geophysics for Petroleum Engineering, Reservoir Characterisation and Simulation, Formation Evaluation, Petroleum Economics, Well Drilling Equipment and Operations, Design Project for Petroleum Engineers, professional elective

YEAR 4
Integrated Oil/Gas Field Evaluation (Thesis), Enhanced Oil and Gas Recovery, Natural Gas Engineering, Well Technology, Petroleum Production Engineering, general education courses, professional elective

Career Opportunities
Petroleum engineers have a number of career choices. As a graduate, you can work in oil/gas companies or oil service companies in Australia and internationally. Work will be a combination of outdoors and office work if you choose this type of career. Working with computer-generated modelling of reservoirs is another type of career.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Petroleum Engineering)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.petrol.unsw.edu.au

Bachelor of Engineering (Petroleum Engineering)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.petrol.unsw.edu.au

Bachelor of Engineering (Petroleum Engineering)/ Bachelor of Science

Program code 3047
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3047.html
Website www.petrol.unsw.edu.au

PHOTONIC ENGINEERING

Bachelor of Engineering (Photonic Engineering)

Program code 3644
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,470
Assumed knowledge Maths
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3644.html
Website www.eet.unsw.edu.au

Photonics does with light (photons) what electronics does with electrical circuits (electrons). Photonic engineers have to find ways to impose the information on the photons in the first place, and then detect and use it later. Photonic engineering will appeal to those who are interested in the fields of optical fibres, optical signal processing, optical communications and optical devices.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Computing 1, Engineering Design, electives including: Electrical and Telecommunications Engineering, Higher Physics, Computing 1B

YEAR 2
Mathematics 2A and 2B, Laboratory A, Quantum Physics, Digital Circuit Design, Choose one of Computing 1B or Computing 2, Circuits and Signals, Higher Mathematical Methods for Differential Equations, Electrical and Telecommunications Engineering, general education courses

YEAR 3
Electromagnetic Engineering, Laser and Spectroscopy Laboratory or Photonics Laboratory, Digital Signal Processing, Analogue and Digital Communications, Advanced Optics, Photonic Engineering Design, State Devices, Analogue Electronics, general education courses, electives

YEAR 4
Photonic Design Proficiency, Photonic Devices and Effects, Strategic Leadership and Ethics, Photonic Networks, Thesis, professional electives

Career Opportunities
Photonic engineering is a rapidly developing and dynamic field of engineering. Potential employers include major telecommunications service providers, large private industrial groups such as JDS, Uniphase and Alcatel, smaller service and technology providers, all being highly specialised and technologically sophisticated.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Photonic Engineering)/ Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry No
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.eet.unsw.edu.au

Bachelor of Engineering (Photonic Engineering)/ Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.eet.unsw.edu.au

Bachelor of Engineering (Photonic Engineering)/ Bachelor of Science

Program code 3634
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3634.html
Website www.eet.unsw.edu.au

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

PHOTOVOLTAICS AND SOLAR ENERGY

Bachelor of Engineering (Photovoltaics and Solar Energy)

Program code 3642
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,020
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3642.html
Website www.pv.unsw.edu.au

UNSW is a world leader in the field of photovoltaic engineering. This degree provides education in photovoltaic (PV) technology development, PV device manufacturing, PV system design and maintenance, and the use of other renewable energy technologies. It also allows for specialisation in a second strand of study.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Engineering Computing, Engineering Design, Higher Physics 1B, Electives including: Sustainable Energy, Electrical and Telecommunications Engineering

YEAR 2
Project, Engineering Materials and Chemistry, Applied Photovoltaics, Numerical Methods and Statistics, Strand Elective, Electronic Devices, Sustainable and Renewable Energy Technologies, Electrical and Telecommunications Engineering

YEAR 3
PV Technology and Manufacturing, Low Energy Buildings and Photovoltaics, Solar Cells, strand elective, professional electives, general education courses

Years 2 and 3 Strand Options:
Computing, Communications and Control, Electronics, Electrical Energy, Mathematics, Mechanical Engineering, Chemical Engineering, Architecture, Physics

YEAR 4
Grid Connected Photovoltaics, Strategic Leadership and Ethics, Thesis, professional electives, general education course, professional electives including: Energy Efficiency, Renewable Energy Policy, Life Cycle Assessment, Biomass, Wind Energy Converters, Photovoltaic Stand-Alone System Design and Installation, High Efficiency Silicon Solar Cells, Semi-Conductor Devices, Sustainable Energy in Developing Countries, Solar Thermal Design, Computational Fluid Dynamics, PV Materials Processing

Career Opportunities
Graduates may work globally in all aspects of photovoltaic and renewable energy engineering including: manufacturing, quality control and reliability, computer-aided design of devices and systems, research and education, system design and analysis, balance of system areas, fault diagnosis and modelling, marketing, policy formation and planning, programs in developing countries.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Photovoltaics and Solar Energy)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.pv.unsw.edu.au

Bachelor of Engineering (Photovoltaics and Solar Energy)/Bachelor of Science

Program code 3655
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3655.html
Website www.pv.unsw.edu.au

RENEWABLE ENERGY ENGINEERING

Bachelor of Engineering (Renewable Energy Engineering)

Program code 3657
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,020
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3657.html
Website www.pv.unsw.edu.au

Renewable energy engineering encompasses a wide range of renewable energy technologies and their use. It draws together resources from around UNSW into a cohorent degree supporting learning for this growth industry.

Study areas include renewable energy technologies, systems and applications including biomass, complementary technologies, environmental and policy issues, solar architecture, solar thermal systems, photovoltaics and wind generators.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics 1A or Higher Physics 1A, Physics 1B or Higher Physics 1B, Engineering Computing, Engineering Design, electives including: Sustainable Energy, Electrical and Telecommunications Engineering

YEAR 2
Thermodynamics, Numerical Methods and Statistics, Engineering Materials and Chemistry, Applied Photovoltaics, Electronic Devices, Circuits and Signals, Electrical and Telecommunications Engineering, Fluid Mechanics

YEAR 3
Solar Thermal Energy Design, Energy Efficiency, Lower Energy Buildings and PV, Life Cycle Assessment, Biomass, Wind Energy Converters, professional electives, general education courses

YEAR 4
Strategic Leadership and Ethics,Thesis, general education courses, professional electives including: Structures and Construction 2, Design for Energy Efficiency, Electromagnetic Engineering, Electrical Energy, Mathematics 2A, Advanced Thermodynamics, Computational Fluid Dynamics, Internal Combustion Engines 1,Photovoltaic Technology and Manufacture, Sustainable and Renewable Energy Technologies, Solar Cells and Systems, Grid-Connect Photovoltaic Systems, Semiconductor Devices, Photovoltaic Stand-Alone Systems, Sustainable Energy in Developing Countries, PV Materials Processing, High Efficiency Silicon Solar Cells

Career Opportunities
Graduates may work globally in all aspects of photovoltaic and renewable energy engineering including: manufacturing, quality control and reliability, computer-aided design of devices and systems, research and education, system design and analysis, balance of system areas, fault diagnosis and modelling, marketing, policy formation and planning and programs in developing countries.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degree Programs

Bachelor of Engineering (Renewable Energy Engineering)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes
Estimated first year tuition A$34,020
Estimated fee to complete A$200,380
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.pv.unsw.edu.au

Bachelor of Engineering (Renewable Energy Engineering)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.pv.unsw.edu.au

Bachelor of Engineering (Renewable Energy Engineering)/Bachelor of Science

Program code 3658
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3658.html
Website www.pv.unsw.edu.au

SURVEYING

Bachelor of Engineering (Surveying and Geoinformation Systems) - see page 42

TELECOMMUNICATIONS ENGINEERING

Bachelor of Engineering (Telecommunications Engineering)

Program code 3643
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$152,020
Assumed knowledge Maths and Physics
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3643.html
Website www.eet.unsw.edu.au

This program will appeal to you if you are interested in satellite communications; signal and image processing; optical fibres and photonics; mobile and satellite communications; data networks; data coding, compression, encryption and transmission; software systems including e-commerce; microelectronic devices and systems; and real-time embedded systems.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Computing, Engineering Design, Higher Physics 1B, electives including: Electrical and Telecommunications Engineering, Computing 1B

YEAR 2
Mathematics and Computing 1B or Computing 2, Electrical Engineering and Telecommunications Engineering, Circuits and Signals, Digital Circuit Design, Analogue Electronics, general education courses

YEAR 3
Electromagnetic Engineering, Electronics, Digital Signal Processing, Analogue and Digital Communications, Control Systems, Telecommunications Engineering Design, Embedded Systems Design

YEAR 4
Telecommunications Design Proficiency, Strategic Leadership and Ethics, Network Technologies, Trusted Networks, level 4 electives, Thesis

Career Opportunities
The demand for graduates of telecommunications is rapidly increasing as the technology advances and broadens its scope. Potential employers include major telecommunications service providers; large private industrial groups such as JDS, Uniphase and Alcatel; smaller service and technology providers, all highly specialised and technologically sophisticated.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Telecommunications Engineering)/Bachelor of Arts

Program code 3704
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,080
Estimated fee to complete A$200,380
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html
Website www.eet.unsw.edu.au

Bachelor of Engineering (Telecommunications Engineering)/Bachelor of Commerce

Program code 3715
Faculty Engineering
Minimum years 5.5 years
Units of credit (per year/total) 48/264
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$217,360
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html
Website www.eet.unsw.edu.au

Bachelor of Engineering (Telecommunications Engineering)/Bachelor of Science

Program code 3641
Faculty Engineering
Minimum years 5 years
Units of credit (per year/total) 48/240
Semester 2 entry Yes*
Estimated first year tuition A$34,020
Estimated fee to complete A$196,820
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3641.html
Website www.eet.unsw.edu.au

SEE ALSO
Bachelor of Engineering (Bioinformatics) - page 50
Bachelor of Engineering (Computer Engineering) page 50
Bachelor of Engineering (Software Engineering) page 51
Bachelor of Engineering (Surveying and Geoinformation Systems) - page 42
Bachelor of Science and Bachelor of Science (Advanced) in various majors - pages 60 to 62
Bachelor of Science (Computer Science) - page 52

Food Science and Technology

Bachelor of Science (Food Science and Technology)

Program code 3060
Faculty Engineering
Minimum years 4 years
Units of credit (per year/total) 48/192
Semester 2 entry Yes
Estimated first year tuition A$34,200
Estimated fee to complete A$152,410 (includes A$300 per year for lab-based programs and A$600 for field trips)
Assumed knowledge Maths and Science
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3060.html
Website www.foodscience.unsw.edu.au

Food science is a profession that builds on fundamental knowledge and leading-edge developments in sciences – such as chemistry, microbiology, biochemistry and biotechnology – to optimise the quality and safety of foods through appropriate processing and packaging for a wide variety of food markets, both national and international.

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Program Structure
A typical program sequence is shown below.

YEAR 1
Molecules, Cells and Genes, Introduction to Food Science, Mathematics for Life Sciences, Statistics for Life and Social Sciences, Sustainable Food Manufacture, Fundamentals of Physics, Chemistry A or Higher Chemistry A, Chemistry B or Higher Chemistry B

YEAR 2
Food Chemistry 1, Food Processing Principles, Food Microbiology, Microbiology 1, Principles of Biochemistry (Advanced) or Fundamentals of Biochemistry, Principles of Molecular Biology (Advanced) or Fundamentals of Molecular Biology, general education courses

YEAR 3
Food Preservation, Nutrition, Unit Operations in Food Processing, Product Design and Development, Food Safety and Quality Assurance, Food Science and Technology Lab, Food Toxicology, general education courses

YEAR 4
Stream A: Industry Liaison, Project or Minor Project, plus a combination of electives from sample list of: Biotechnology, Commercial Biotechnology, Microeconomics, Macroeconomics, Advanced Food Chemistry, Forensic Food Science, Advanced Food Microbiology, Advanced Nutrition, Advanced Food Processing, Business Data Management, Marketing Fundamentals, Physiology

Or

Stream B: Industry Module Program, Industry Liaison, Industry Practicum

Career Opportunities
Professional opportunity is diverse and includes areas such as: processing and production, quality management, product design and development, information technology and service or management within companies or state and commonwealth governments.

Bachelor of Food Science (Honours)

Program code 3065

Faculty Engineering

Minimum years 1 year

Units of credit (per year/total) 48/48

Semester 2 entry Yes

Estimated first year tuition A$33,840

Estimated fee to complete A$34,840

Assumed knowledge Completion of a relevant Bachelor degree

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3065.html

Website www.foodscience.unsw.edu.au

This program is designed to provide extensive research training in some aspects of food science and technology at undergraduate level. The research orientation of the program, compared to the Graduate Diploma, facilitates entry into a research higher degree (Master of Science/PhD) upon completion of honours at a satisfactory level.

SEE ALSO
Bachelor of Science with major in food science
page 60

Computing

BIOINFORMATICS

Bachelor of Engineering (Bioinformatics)

Program code 3647

Faculty Engineering

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$34,140

Estimated fee to complete A$153,010

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3647.html

Website www.cse.unsw.edu.au

The bioinformatics program covers the foundation disciplines of bioinformatics, including biology (biochemistry, molecular biology and genetics), computing (algorithms, databases, programming) and mathematics and statistics. In addition, dedicated bioinformatics courses bring together these various fields to demonstrate the use of computational methods in the analysis of high-throughput biology data including the human genome.

Program Structure
A typical program sequence is shown below.

YEAR 1
Bioinformatics, Molecules, Cells and Genes, Computing, Chemistry, Mathematics

YEAR 2
Principles of Molecular Biology (Advanced), Software Construction, Engineering Design in Computing, Discrete Mathematics, Statistics, 2 of the following: Genetics, Biochemistry, Microbiology, Cell Biology

YEAR 3
Bioinformatics Methods and Applications, Computational Bioinformatics, Molecular Biology of Nucleic Acids, Algorithms and Programming Techniques, Database Systems, life science elective, computing/maths elective, open elective

YEAR 4
Management and Ethics, Thesis, life science elective, computing/maths elective, open elective, general education courses

Career Opportunities
As a graduate, you can work with biotechnology and pharmaceutical companies, companies in the information and communications technology sector, public sector organisations, public and private research organisations.

Professional Recognition
This degree is accredited by Engineers Australia and graduates are eligible for membership to the Australian Computer Society.

Dual Award Degree Programs

Bachelor of Engineering (Bioinformatics)/ Bachelor of Arts

Program code 3704

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes*

Estimated first year tuition A$34,080

Estimated fee to complete A$200,380

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html

Website www.cse.unsw.edu.au

Bachelor of Engineering (Bioinformatics)/ Bachelor of Commerce

Program code 3715

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$217,360

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html

Website www.cse.unsw.edu.au

Bachelor of Engineering (Bioinformatics)/ Bachelor of Science

Program code 3755

Faculty Engineering

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$196,820

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3755.html

Website www.cse.unsw.edu.au

COMPUTER ENGINEERING

Bachelor of Engineering (Computer Engineering)

Program code 3645

Faculty Engineering

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$34,080

Estimated fee to complete A$152,110

Assumed knowledge Maths and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3645.html

Website www.cse.unsw.edu.au

Computer engineering is concerned with the design and construction of reliable and efficient computer based systems. It is especially relevant to systems where either hardware or software is used to control interaction between a computer-based system and the real world.

Program Structure
A typical program sequence is shown below.

YEAR 1
Mathematics, Physics, Computing, Introduction to Engineering Design and Innovation, Electrical and Telecommunications Engineering

YEAR 2
Mathematics, Microprocessors, Engineering Design in Computing, Digital Circuits and Systems, Analogue Electronics, Circuits and Signals, general education courses

YEAR 3
Operating Systems, Design Project, Computer Architecture, Electives, general education courses

YEAR 4
Design Project, Management and Ethics, Thesis, electives

Career Opportunities
Computer engineering graduates are ideally suited to jobs involving the development of hardware software systems for communications, electronics or process control, and work in such diverse industries as telecommunications, power, defence, or gaming machines.

Professional Recognition
This degree is fully accredited by Engineers Australia. Recognition of the accreditation of the degree is given by countries who are signatories to the Washington Accord (see www.washingtonaccord.org).

Dual Award Degrees

Bachelor of Engineering (Computer Engineering)/ Bachelor of Arts

Program code 3704

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes*

Estimated first year tuition A$34,080

Estimated fee to complete A$200,380

Assumed knowledge Maths and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html

Website www.cse.unsw.edu.au

Bachelor of Engineering (Computer Engineering)/ Bachelor of Commerce

Program code 3715

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$217,360

Assumed knowledge Maths and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3715.html

Website www.cse.unsw.edu.au

Bachelor of Engineering (Computer Engineering)/ Bachelor of Science

Program code 3726

Faculty Engineering

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes*

Estimated first year tuition A$34,020

Estimated fee to complete A$196,820

Assumed knowledge Maths and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3726.html

Website www.cse.unsw.edu.au

SEE ALSO
Bachelor of Engineering (Computer Engineering)/ Master of Biomedical Engineering - page 38

SOFTWARE ENGINEERING

Bachelor of Engineering (Software Engineering)

Program code 3648

Faculty Engineering

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes

Estimated first year tuition A$34,020

Estimated fee to complete A$151,870

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3648.html

Website www.cse.unsw.edu.au

The program objective produces graduates who will be able to:
- Undertake the production of high quality software.
- Meet the needs of society for efficient, reliable software over the period of their professional life.
- Make significant contributions to the development and application of computing technology, especially software.
- Take an active part in developing the software engineering profession.

Program Structure
A typical program sequence is shown below.

YEAR 1
Business Data Management, Discrete Mathematics, Software Engineering Workshop, Computing, Mathematics, electives

YEAR 2
System Modelling and Design, Microprocessors and Interfacing, Engineering Design in Computing, Software Construction, Software Engineering Workshops, electives, general education courses

YEAR 3
Software System Design and Implementation, Software Engineering Workshops, Computer Networks, Database Systems, Software Engineering electives, general education courses

YEAR 4
Thesis, Professional Issues and Ethics, Industrial Training, Software Engineering electives

Career Opportunities
Graduates have strengths in design techniques and experience in software design and development, which equips them for a wide range of careers. Employment may involve the business sector, which utilises their knowledge and abilities in designing advanced information systems; building technical systems for the medical, power and transport industries; the burgeoning telecommunications area, exploiting, or even developing, new network technologies.

Professional Recognition
This degree is accredited by Engineers Australia.

Dual Award Degrees

Bachelor of Engineering (Software Engineering)/ Bachelor of Arts

Program code 3704

Faculty Engineering

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry Yes

Estimated first year tuition A$34,080

Estimated fee to complete A$200,380

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3704.html

Website www.cse.unsw.edu.au

Bachelor of Engineering (Software Engineering)/ Bachelor of Science

Program code 3651

Faculty Engineering

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes

Estimated first year tuition A$34,080

Estimated fee to complete A$196,880

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3651.html

Website www.cse.unsw.ed.au

* Students starting an engineering program in semester 2 may be required to complete summer semesters. Contact the Faculty of Engineering for further details.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

COMPUTER SCIENCE

Bachelor of Science (Computer Science)

Program code 3978

Faculty Engineering

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$34,200

Estimated fee to complete A$111,960

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3978.html

Website www.cse.unsw.edu.au

Computer science is concerned with the core principles and technologies that make up the entire range of computer-based systems. You will study the principles underlying computer hardware, algorithms, operating systems, networks, databases, graphics and artificial intelligence, and also the practice of building such systems.

Program Structure
A typical program sequence is shown below.

YEAR 1
Computing, Mathematics, Discrete Mathematics, 3 electives

YEAR 2
Software Construction, Microprocessors and Interfacing, Engineering Design in Computing, electives, general education courses

YEAR 3
Management and Ethics, Level 3/4 Computer Science electives, 2 electives, general education courses

Career Opportunities
Graduates are employed in a wide range of industries, in government departments and private firms (including software development companies like Microsoft, IBM and Sun Microsystems). They commonly work as programmers and analysts, but some find that working with people in user support, or as a network administrator, is more to their liking.

Professional Recognition
Graduates are eligible for membership of the Australian Computer Society and the Association for Computing Machinery, the peak industry/academic body in North America.

Dual Award Degrees

Bachelor of Science/Bachelor of Science (Computer Science)

Program code 3983

Faculty Engineering

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$34,200

Estimated fee to complete A$153,130

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3983.html

Website www.cse.unsw.edu.au

Bachelor of Science (Computer Science)/ Bachelor of Arts

Program code 3968

Faculty Engineering

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes*

Estimated first year tuition A$31,230

Estimated fee to complete A$136,750

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3968.html

Website www.cse.unsw.edu.au

Bachelor of Science (Computer Science)/ Bachelor of Media Arts (Honours)

Program code 3969

Faculty Engineering

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes*

Estimated first year tuition A$30,000

Estimated fee to complete A$168,170

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3969.html

Website www.cse.unsw.edu.au

This is a new program scheduled to commence in 2013

SEE ALSO
Bachelor of Science (Computer Science)/Bachelor of Laws - page 53

INFORMATION SYSTEMS

Bachelor of Information Systems

Program code 3979

Faculty Australian School of Business

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$33,360

Estimated fee to complete A$109,080

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3979.html

Website www.asb.unsw.edu.au/futurestudents

Information systems is the mechanism that drives the innovations (Facebook. LinkedIn, Twitter etc) that make a positive difference to the world, enabling people and organisations to be creative and productive. In this degree you study the analysis, design and construction of computer systems, as well as the management of business computing that will drive an organisation to be competitive and successful. Information systems and the use of information technology (the hardware and software) is one of the fastest growing industries in the Australian economy and employers value graduates who demonstrate skills and knowledge in both business and information technology domains and are creative and entrepreneurial.

Program Structure
Depth Component:
4 compulsory core courses
12 information systems core courses

Breadth Component:
2 information systems elective
4 electives
2 general education courses

Professional Recognition
This program has been accredited by the Australian Computer Society for provisional membership at the professional level.

SEE ALSO
Bachelor of Commerce with major in Information Systems - page 31
Bachelor of Commerce/Bachelor of Information Systems - page 32

International Studies and Languages

Bachelor of International Studies

Program code 3424

Faculty Arts and Social Sciences

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$26,400

Estimated fee to complete A$119,680 (possible additional costs associated with overseas study placement – contact the faculty for further details)

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3424.html

Website http://intlstudies.arts.unsw.edu.au/

The Bachelor of International Studies examines the dynamics of global and regional change, explores key developments in international relations and international economics, evaluates the implications of globalisation, encourages acquisition of relevant languages and discusses questions centred on nationalism, political sovereignty, social change, multiculturalism, and transnational interaction in an increasingly integrated world.

Program Structure
This is a rigorous four-year program which includes:
- core courses in international studies
- a choice of one area of specialisation from seven distinct and integrated programs of study including globalisation studies, Asian studies, European studies, development studies, language studies, international business studies and international relations.
- language study
- a 12-month period of overseas study.*

*In order to proceed on the Overseas Study Program, which is a compulsory part of this program, you must satisfy the academic requirements of the UNSW International Exchange Program.

Career Opportunities
Graduates can be found in diverse professions within international business and law, government agencies including foreign affairs, investment banks and other financial institutions with international links, non-government organisations, journalism, media, tourism and trade.

Dual Award Degrees
Bachelor of International Studies/Bachelor of Laws - page 54

Concurrent Diploma Program

Diploma in Language Studies

Program code 3417

Faculty Arts and Social Sciences

Minimum years 3 years

Units of credit (per year/total) 48

Semester 2 entry Yes, depending on proficiency

Estimated fee to complete A$26,400 (based on studies starting in current and over three years of concurrent studies)

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3417.html

Website http://intlstudies.arts.unsw.edu.au

This Diploma enables students from any faculty to undertake the study of a language concurrently with their main degree. You study a major sequence in a language to obtain the diploma. Languages available are: Chinese, French, German, Indonesian, Japanese, Korean and Spanish. If you opt to take the Diploma with your main degree you should be aware that to complete your studies there will be additional fees.

Note: This program is only available to international students as a concurrent program and must be completed within the same overall time period as the undergraduate degree program. The Diploma in Language Studies cannot be used for the purpose of obtaining a student visa by international students.

SEE ALSO
Bachelor of Arts with majors in most modern languages - page 29

Law

UNSW Law offers a range of dual award degrees for students with no existing degree.

The Law dual degree is designed to equip you with the necessary skills and knowledge to become a successful professional, not only as a solicitor or barrister but in one of the many other occupations in which a lawyer's skills are valued.

Our distinctive method of interactive small group teaching ensures that you will learn to think rigorously, express yourself clearly, master legal techniques and develop independent research skills to a high level.

Program Structure
The law component of a typical five-year dual award degree program is set out below. For further details refer to the UNSW Online Handbook.

YEAR 1
6 non-law courses, Introducing Law and Justice, Torts

YEAR 2
4 non-law courses, Principles of Public Law, Crime and the Criminal Process,Principles of Private Law and Criminal Laws

YEAR 3
4 non-law courses, Contracts, Equity and Trusts, Admin Law or Lawyers, Ethics and Justice

YEAR 4
2 non-law courses, Land Law, Resolving Civil Disputes, Business Associations, Court Process and Evidence, Federal Constitutional Law and Law in the Global Context.

YEAR 5
Prescribed law elective and seven law electives.

Career Opportunities
Many solicitors act as general practitioners of law, but more and more are specialising in particular areas of the law (for example, commercial law, criminal law or industrial law).

Many private and public sector institutions now employ their own lawyers, and extensive opportunities exist within regulatory and law enforcement agencies as well as the various branches of government.

Professional Recognition
You should check with the legal education authority in your home country regarding recognition of UNSW law degrees for registration purposes. To become admitted as a legal practitioner in New South Wales (NSW), you will also need to satisfy the requirements of the NSW Legal Profession Admission Board (www.lawlink.nsw.gov.au/lpab). Certificates to practise as a barrister or solicitor are granted by the NSW Bar Association and the Law Society respectively.

Note: You should be aware that the summer clerkship positions offered to students in their second last year of study are generally only made available to citizens and permanent residents of Australia.

Bachelor of Arts/Bachelor of Laws

Program code 4760

Faculty Law

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry Possibly, depending on the Arts major selected **

Estimated first year tuition A$27,900

Estimated fee to complete A$175,100

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4760.html

Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Art Theory/Bachelor of Laws

Program code 4703

Faculty Law

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry Yes**

Estimated first year tuition A$27,540

Estimated fee to complete A$173,840

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4703.html

Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Commerce/Bachelor of Laws

Program code 4733

Faculty Law

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry Yes**

Estimated first year tuition A$33,120

Estimated fee to complete A$189,800

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4733.html

Website www.law.unsw.edu

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Science (Computer Science)/ Bachelor of Laws

Program code 3984

Faculty Law

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry Yes**

Estimated first year tuition A$33,840

Estimated fee to complete A$191,780

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3984.html

Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Criminology and Criminal Justice/Bachelor of Laws

Program code 4763

Faculty Law

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry No

Estimated first year tuition A$27,900

Estimated fee to complete A$176,900

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4763.html

Website www.law.unsw.edu.au

Bachelor of Economics/Bachelor of Laws

Program code 4744

Faculty Law

Minimum years 5 years

Units of Credit (per year/total) 48/240

Semester 2 entry Yes**

Estimated first year tuition A$33,120

Estimated fee to complete A$189,800

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4744.html

Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Bachelor of Engineering/Bachelor of Laws

Program code 4778
Faculty Law
Minimum years 6.5 years
Units of Credit (per year/total) 48/312
Semester 2 entry Yes**
Estimated first year tuition A$33,720
Estimated fee to complete A$261,320
Assumed knowledge Maths, Physics and Chemistry
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4778.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Fine Arts/Bachelor of Laws

Program code 4704
Faculty Law
Minimum years 5 years
Units of Credit (per year/total) 48/240
Semester 2 entry Yes**
Estimated first year tuition A$27,540
Estimated fee to complete A$173,840
Assumed knowledge No
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4704.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of International Studies/ Bachelor of Laws

Program code 4765
Faculty Law
Minimum years 6 years (includes 2 semesters outside Australia)
Units of Credit (per year/total) 48/288
Semester 2 entry No
Estimated first year tuition A$29,400
Estimated fee to complete A$212,280 (possible additional costs from overseas study placement)
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4765.html
Website www.law.unsw.edu.au

Bachelor of Media/Bachelor of Laws

Program code 4781
Faculty Law
Minimum years 5 years
Units of Credit (per year/total) 48/240
Semester 2 entry No
Estimated first year tuition A$27,900
Estimated fee to complete A$175,010
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4781.html
Website www.law.unsw.edu.au

Bachelor of Planning/Bachelor of Laws

Program code 4707
Faculty Law
Minimum years 7 years (with 2 semesters work experience)
Units of Credit (per year/total) 48/336
Semester 2 entry No
Estimated first year tuition A$29,910
Estimated fee to complete A$265,780
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4707.html
Website www.law.unsw.edu.au

Bachelor of Science/Bachelor of Laws

Program code 4770
Faculty Law
Minimum years 5 years
Units of Credit (per year/total) 48/240
Semester 2 entry Possibly, depending on the Science major selected**
Estimated first year tuition A$33,840
Estimated fee to complete A$191,780
Assumed knowledge Maths and Science
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4770.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Science (Advanced) (Honours)/ Bachelor of Laws

Program Code 3997
Faculty Law
Minimum years 6
Units of Credit (per year/total) 48/288
Semester 2 entry Yes**
Estimated first year tuition A$33,840
Estimated fee to complete A$238,920
Assumed knowledge Maths and Science
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3997.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Science (Advanced Mathematics) (Honours)/Bachelor of Laws

Program Code 3998
Faculty Law
Minimum years 6
Units of Credit (per year/total) 48/288
Semester 2 entry Yes**
Estimated first year tuition A$33,840
Estimated fee to complete A$238,920
Assumed knowledge Maths and Science
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3998.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Social Research and Policy/ Bachelor of Laws

Program code 4771
Faculty Law
Minimum years 5.5 years
Units of Credit (per year/total) 48/240
Semester 2 entry Yes**
Estimated first year tuition A$27,900
Estimated fee to complete A$193,540
Assumed knowledge None
Online Handbook handbook.unsw.edu.au/undergraduate/programs/current/4771.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Bachelor of Social Work/Bachelor of Laws

Program code 4786
Faculty Law
Minimum years 6.5 years
Units of Credit (per year/total) 48/288
Semester 2 entry No
Estimated first year tuition A$28,890
Estimated fee to complete A$223,810
Assumed knowledge None
Online Handbook handbook.unsw.edu.au/undergraduate/programs/current/4786.html
Website www.law.unsw.edu.au

** You will start non-law courses in July. Law studies commence in semester 1 of the following year.

Media and Communication

Bachelor of Media in Communication and Journalism

Program code 3429
Faculty Arts and Social Sciences
Minimum years 3 years
Units of Credit (per year/total) 48/144
Semester 2 entry Yes
Estimated first year tuition A$26,400
Estimated fee to complete A$87,240
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3429.html
Website http://sam.arts.unsw.edu.au/

The Bachelor of Media in Communication and Journalism is a three-year degree that provides practical and theoretical skills in contemporary journalism. The program prepares you for professional work relevant to journalism in the digital age, as well as public relations and advertising, corporate and organisational communication and public sector communication. You are able to choose electives from a wide range of courses in public relations, writing for digital media, digital media production, marketing, creative writing and an industry internship.

Program Structure
The following is a sample program and may be subject to change. See the UNSW Online Handbook for details of the degree structure.

YEAR 1
Media, Culture and Everyday Life; Media Industry Contexts; Media, Society, Politics; News Reporting; communication and journalism elective; electives

YEAR 2
Publics and Publishing; Advanced Media Writing; Analysing Media Communication; communication and journalism elective; media elective; electives

YEAR 3
Advanced Media Issues; Multiplatform Journalism; Social Innovation and Engagement; Media Portfolio; communication and journalism electives; electives

Career Opportunities
This program enables you to develop skills and knowledge for professional work relevant to journalism, corporate and organisational communication and public sector communication.

Dual Award Degree Program
Bachelor of Media/Bachelor of Laws - page 54

Bachelor of Media in Media Production

Program code 3428
Faculty Arts and Social Sciences
Minimum years 3 years
Units of Credit (per year/total) 48/144
Semester 2 entry Yes
Estimated first year tuition A$26,340
Estimated fee to complete A$87,090
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3428.html
Website http://sam.arts.unsw.edu.au/

The Bachelor of Media in Media Production emphasises practical and theoretical skills in contemporary interactive media. You focus on specialist practical learning in contemporary digital media production as well as electives from a wide selection of courses in digital media, design and production, computer game design, interactive environments and advanced web design.

Program Structure
The following is a sample program and may be subject to change. See the UNSW Online Handbook for details of the degree structure.

YEAR 1
Media, Culture and Everyday Life; Time, Space and Experience; Sound Media 1; Media, Society, Politics; media production elective; electives

YEAR 2
Publics and Publishing; Animating Media; Digital Video 1; Bodies and Interfaces; media elective; media production elective; electives

YEAR 3
Advanced Media Issues; Serious Games; Social Innovation and Engagement; Festivals and Exhibitions; media production elective; electives

Career Opportunities
Career opportunities include web design and production, gaming and interactive virtual environments, and other areas of media production, design and distribution. This program will enable you to develop foundational skills and knowledge for professional work as content producers in the evolving contemporary media industry.

Dual Award Degree
Bachelor of Media/Bachelor of Laws - page 54

Bachelor of Media in Public Relations and Advertising

Program code 3434
Faculty Arts and Social Sciences
Minimum years 3 years
Units of Credit (per year/total) 48/144
Semester 2 entry Yes
Estimated first year tuition A$26,400
Estimated fee to complete A$87,240
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3434.html
Website http://sam.arts.unsw.edu.au/

The Bachelor of Media in Public Relations and Advertising offers you theoretical and applied knowledge and skills in public relations (PR) and advertising. The program aims to develop PR and advertising leaders who inspire innovation and change at all levels of society and adhere to the highest ethical standards. You are encouraged to think beyond industry specific problems to reflect on the broader sociocultural, political and economic implications of the roles and responsibilities of PR and advertising.

Program Structure
The following is a sample program and may be subject to change. See the UNSW Online Handbook for details of the degree structure.

YEAR 1
Media, Culture and Everyday Life; Media Industry Contexts; Media, Society, Politics; Public Relations Practices; PR and advertising elective; electives

YEAR 2
Publics and Publishing, Communication Strategies, media elective, Advertising: The Creative Dimensions, PR and advertising elective, electives

YEAR 3
Advanced Media Issues, Public Relations Discourse and Change, PR and advertising electives, Social Innovation and Engagement, Portfolio Project, electives

Career Opportunities
The program offers you the opportunity to develop skills and knowledge that are relevant for professional work related to public relations, advertising, corporate or organisational communication, public affairs, non-profit and community organisations and media. You will gain professional communication knowledge and skills to successfully work in corporate, public sector, political and non-profit organisations.

Dual Award Degree
Bachelor of Media/Bachelor of Laws - page 54
Bachelor of Commerce/Bachelor of Media - page 32

Bachelor of Media in Screen and Sound

Program code 3433
Faculty Arts and Social Sciences
Minimum years 3 years
Units of Credit (per year/total) 48/144
Semester 2 entry Yes
Estimated first year tuition A$26,340
Estimated fee to complete A$87,090
Assumed knowledge None
Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3433.html
Website http://sam.arts.unsw.edu.au/

The Bachelor of Media in Screen and Sound emphasises practical skills in video and sound production and theoretical skills in contemporary media, with a particular focus on film theory. You may choose electives from a wide selection of courses in video production, audio design, working with image and sound, photography, the Hollywood system, film genres and styles and documentary film and history.

Program Structure
The following is a sample program and may be subject to change. See the UNSW Online Handbook for details on the degree structure.

YEAR 1
Media, Culture and Everyday Life; Intro to Film Studies; Sound Media 1; Media, Society, Politics; Time, Space; Experience; screen and sound elective; electives

YEAR 2
Publics and Publishing, Animating Media, Digital Video 1, Working with Image and Sound, media electives, electives

YEAR 3
Advanced Media Issues, Video Project, Social Innovation and Engagement, media elective, prescribed screen and sound elective, electives

Career Opportunities
This program enables you to develop skills and knowledge for professional work in the audio visual industry such as television and film production, sound design, editing, film criticism and research.

Dual Award Degree Program
Bachelor of Media/Bachelor of Laws - page 54

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Application Process for UNSW Medicine—Bachelor of Medical Studies/Doctor of Medicine (MD) for International Students (does NOT apply to Medical Science program)

	Details	Closing Date	Australian or New Zealand HSC or International Baccalaureate	All other students
Step 1	University Application Form – apply through Universities Admissions Centre www.uac.edu.au	30 Sep (1)	●	
OR	All other applicants – apply through UNSW Admissions www.apply.unsw.edu.au	31 Oct (2)		●
Step 2	International Student Admission Test – apply and sit ISAT www.isat.acer.edu.au	12 Oct (3)	●	●
Step 3	Medicine Application Form – complete online at www.med.unsw.edu.au	31 Nov (2)	●	●
Step 4	Selected students will be offered a telephone interview		●	●
Step 5	Offer of a place – Offers will be made after students are interviewed		●	●

(1) There are late closing dates, but late fees will apply.
(2) Applicants should apply earlier if possible, as places may fill prior to the closing date.
(3) Tests are held from April until October, 2014. However, not all test centres may be available for a test if application is made close to the closing date, so earlier application is recommended.

Medicine

Bachelor of Medical Studies/Doctor of Medicine

Program code 3805

Faculty Medicine

Minimum years 6 years

Units of Credit (per year/total) 48/288

Semester 2 entry No

Estimated first year tuition A$54,240

Estimated fee to complete A$378,370

Assumed knowledge Chemistry and English

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3805.html

Website www.med.unsw.edu.au

This six-year integrated medicine program which leads to the awards of Bachelor of Medical Studies (BMed) and Doctor of Medicine (MD) includes a compulsory independent learning project (30 UOC) to ensure that all graduates acquire knowledge of research principles and methods applicable to medicine and its professional practice. If you have achieved a high standard in the BMed you may undertake a one year program of supervised research leading to the award of the BSc (Med) Honours.

Program Structure
The medicine program has a modular structure comprising a series of fully integrated courses studied over 26 teaching periods, generally each of eight weeks duration. There are four teaching periods in Years 1– 4 approximating the University semester timetable. There is an additional teaching period (summer semester) in years 5 and 6. In most years, the standard UNSW program load of 48 UOC per year will apply.

As part of the program, you are required to satisfy the University's general education requirements.

The program is organised into two degrees:

BACHELOR OF MEDICAL STUDIES (BMed)
The BMed includes Phase 1 and Phase 2. Phase 1 commences with the foundations course, followed by seven eight-week courses focusing on basic medical sciences in relation to the human life cycle; social, ethical and legal issues related to health care; and early experience in clinical or other health-related environments. During this phase, you will undertake a variety of learning activities involving students from different stages of the program working collaboratively in small groups.

Phase 2 consists of two 16-week courses, with increased clinical content and an emphasis on correlation between prior and current learning.

DOCTOR OF MEDICINE (MD)
The MD includes the independent learning project (ILP), followed by a clinical transition course prior to the Phase 3 courses. During the independent learning project students should also complete 12 UOC of general education courses in a faculty or faculties other than Medicine.

Phase 3 consists of 10 eight-week courses with a clinical focus, but still includes relevant content from the basic medical sciences and the social sciences. You are required to complete a course in the disciplines of internal medicine, surgery, psychiatry, primary care, obstetrics and gynaecology and children's health (paediatrics). You may choose from a range of other available clinical modules to complete Phase 3 requirements. All clinical courses in Phase 3 adopt the principles of clinical clerkship, in which you learn through experience and participation in the treatment of patients under the care of medical practitioners and/or medical teams to which you are attached.

In all phases of the program, you will be required to travel to various clinical environments associated with UNSW, which will be the predominant locations for learning in Phases 2 and 3. These locations include clinical schools associated with St Vincent's Hospital, Darlinghurst; St George Hospital, Kogarah; the Randwick Campus Hospitals; various locations in the South Western Sydney Clinical School based around Liverpool. Throughout the program, you may be attached to multiple sites, which will typically include at least four weeks in a non-metropolitan setting.

Students wishing to undertake a full year of research may be able to enrol in the BSc (Med) Honours program (3831) subject to the approval from the Honours Committee. These students will be exempt from undertaking the independent learning project. Exemption from the independent learning project will also be granted to students who have previously completed a research honours program or higher research degree, or a Master degree.

PHASE 1
Foundation, Beginnings, Growth and Development A, Beginnings, Growth and Development B, Health Maintenance A, Health Maintenance B, Ageing and Endings A, Ageing and Endings B, Society and Health
AND
Phase 1 Portfolio Examination, Phase 1 Written Examination, Phase 1 Clinical Skills Examination

PHASE 2
Integrated Clinical Studies A, Integrated Clinical Studies B
AND
Phase 2 Integrated Clinical Examination, Phase 2 Portfolio Examination

Independent Learning Project
Independent Learning Project 1, Independent Learning Project 2, Clinical Transition

PHASE 3
Medicine, Surgery, Psychiatry, Primary Care, Obstetrics and Gynaecology, Children's Health (Paediatrics), Elective, Emergency/Selective,
AND
Phase 3 Portfolio Examination, Phase 3 Biomedical Sciences Viva Examination, Phase 3 Integrated Clinical Examination

Professional Recognition
After completing formal program requirements for the award of the BMed MD degrees, you will be provisionally registered by the Medical Board of Australia and work for at least one year in selected hospitals before obtaining final registration as a medical practitioner. International graduates are not guaranteed an internship and should check with state health departments to confirm internship availability. Although the UNSW Medicine degree is recognised internationally, many countries require foreign graduates to sit a licensing examination to ensure the doctor understands the local health problems and health care systems prior to practicing.

Bachelor of Exercise Physiology

Program code 3871

Faculty Medicine

Minimum years 4 years

Units of Credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$34,590

Estimated fee to complete A$156,640

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3871.html

Website www.med.unsw.edu.au

The program offers a comprehensive education in the area of health and exercise with a focus on the use of physical activity as preventative and rehabilitative therapy. Four years of full-time study leads to the award of a Bachelor of Exercise Physiology. A total of 192 units of credit must be successfully completed for the award of this degree. As a graduate, you can expect to find employment as an exercise physiologist in rehabilitation clinics and hospitals working in post-acute rehabilitation, sports medicine clinics, corporate health, specialised fitness centres, government departments establishing policy guidelines regarding physical activity and preventative health, and private practice for rehabilitation/exercise prescription for people requiring specialist guidance (for example, workplace rehabilitation).

Program Structure
YEAR 1
Foundation science courses and introduction to the profession. Introductory Exercise Science, Chemistry, Molecules, Cells and Genes, Anatomy, Psychology, Statistics, Exercise Programs and Behaviour

YEAR 2
Comprehensive foundation in biomedical sciences plus exercise science courses. Biochemistry, Human Physiology, Exercise Physiology, Functional Anatomy, Biomechanics, Movement Assessment and Instruction, Processes in Disease

YEAR 3
Greater depth in medical science courses and profession specific courses. Physical Activity and Health, Clinical Exercise Physiology, Pharmacology in Exercise, Muscle and Motor Control, Movement Rehabilitation, Neuromuscular Rehabilitation, electives, general education courses

YEAR 4
Courses emphasise the consolidation of clinical skills and knowledge, and skills for independent learning. Major Clinical Practicum, research seminars, research project, electives, general education courses.

Year 3 and 4 electives include: Advanced Exercise Physiology, Physical Activity in Special Populations, Health Promotion, Health Psychology, Nutrition, Advanced Nutrition, Experimental Biomechanics, Neuroanatomy, Visceral Anatomy, Human Biochemistry, Musculoskeletal Diseases, Cardiovascular Physiology, Endocrine Physiology, Neurophysiology, Clinical Pharmacology, Maths, Physics

Clinical training commences from Year 1 and is primarily supported by the UNSW Lifestyle Clinic. Placements in Year 4 are completed within the UNSW lifestyle clinic and clinical schools in hospitals, as well as other hospitals and private practices.

Career Opportunities
Exercise physiologists are employed in rehabilitation clinics and hospitals working in post-acute rehabilitation, aged care, sports medicine clinics, corporate health and private practice for rehabilitation/exercise prescription for people requiring specialist guidance (for example workplace rehabilitation departments). The degree also provides excellent preparation to apply for a graduate entry medical program, graduate degrees in nutrition, physiotherapy and other allied-health professions, or research higher degrees (Masters or PhD).

Professional Recognition
The Bachelor of Exercise Physiology is accredited by Exercise and Sports Science Australia (ESSA). Graduates are eligible to become members of the professional body, Exercise and Sports Science Australia, and accredited exercise physiologists.

SEE ALSO
Bachelor of Science with majors in anatomy, biochemistry and molecular biology, chemistry, genetics and molecular genetics, immunology, microbiology, pathology, physics, physiology and pharmacology - page 60 - 61

Bachelor of Science (Advanced) - page 62

Medical Science

Bachelor of Medical Science

Program code 3991

Faculty Science

Minimum years 3 years

Units of Credit (per year/total) 48/144

Semester 2 entry No

Estimated first year tuition A$34,410

Estimated fee to complete A$113,520

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3991.html

Website www.science.unsw.edu.au

Medical science underpins the practice of medicine. It incorporates the study of structure and chemistry of the cells that make up living organisms (cell and molecular biology and biochemistry) with particular reference to humans, and specifically of the structure and function of the human body (anatomy and physiology). It then deals with the general processes leading to disease (pathology), the role of bacteria, viruses and other micro-organisms in disease (microbiology) as well as drugs which are used to cure human diseases (pharmacology). Other areas available for study include the way in which our form and function is inherited (genetics), the processes of development from the fertilised ovum (embryology), the natural defences of the body (immunology) and the study of the structure and function of the brain (neuroscience).

Program Structure

YEAR 1
Evoluntionary and Functional Biology or Genetics or Molecular Cell Biology; Molecules Cells and Genes, Chemistry, Anatomy, Perspectives in Medical Science, Statistics for Life and Social Sciences, electives

YEAR 2
Histology, Processes in Disease, Physiology, Microbiology, Principles of Biochemistry, Principles of Molecular Biology, Pharmacology

YEAR 3
Courses taken from disciplines including: anatomy, biochemistry, genetics, microbiology and immunology, pathology, physiology, pharmacology, neuroscience, general education courses

Career Opportunities
The Bachelor of Medical Science is an excellent starting point for postgraduate study in medicine and paramedical fields, or a career in biomedical science, health policy and management, medical journalism or a variety of positions in pharmaceutical and other industries related to the medical field.

Medicinal Chemistry

Bachelor of Medicinal Chemistry

Program code 3992

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$34,320

Estimated fee to complete A$154,750

Assumed knowledge Maths and Chemistry

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3992.html

Website www.science.unsw.edu.au

The Bachelor of Medicinal Chemistry encompasses all aspects of new drug design and development from the initial concept and design of drug candidates, planning and execution of their synthesis including scale-up where larger quantities are needed, biological testing and the study of biochemical effects and regulatory and ethical matters.

Program Structure

YEAR 1
Molecules, Cells and Genes, Chemistry, Mathematics, Introductory Medicinal Chemistry, Introductory Biotechnology, electives

YEAR 2
Principles of Biochemistry (Advanced), Physical Chemistry: Molecules and Change, Analytical Chemistry: Essential Methods, Principles of Molecular Biology (Advanced), Organic Chemistry: Mechanisms and Biomolecules, Introductory Pharmacology, electives

YEAR 3
Organic Chemistry: Strategies for Synthesis, Molecular Pharmacology, Analytical Chemistry: Frontier Techniques, Medicinal Organic Chemistry, Rational Drug Design, electives

YEAR 4
Honours program in medicinal chemistry

Career Opportunities
Medicinal chemistry graduates are in demand for employment in the pharmaceutical and biotechnology industries. As a graduate, you will be equipped with skills in modern molecular biology and pharmacology. These skills are underpinned with a comprehensive background in chemistry with relevant synthetic skills necessary for synthesising complex drug candidates. You can also find employment opportunities within the research, government, management, legal and education sectors.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Music

Bachelor of Music

Program code 3436

Faculty Arts and Social Sciences

Minimum years 4 years

Units of Credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$26,400

Estimated fee to complete A$119,680

Assumed knowledge Audition/Interview required

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3425.html

Website http://sam.arts.unsw.edu.au

As a UNSW music student you will benefit from teaching by leading academics and access to purpose built facilities for composition, performance and music technology.

Program Structure
The Bachelor of Music allows you to complete:
- Core courses in music performance, musicianship and musicology
- Your choice of specialist music stream
- Extensive training in ensemble skills and professional practices
- Elective courses that give you the flexibility to combine your music studies with complementary areas

Music Streams
Music Creative Practice - Develop high-level performance or compositional skills

Music Inquiry - Studies in historical musicology, ethnomusicology, and the psychology of music

Sonic Arts - Develop technical and creative skills in electro-acoustic music and provides links to media studies

Music Pedagogy - Provides specialist study in studio music teaching and preparation for further music education studies

Career Opportunities
At the completion of the program, you will have expertise in at least one of the sub-disciplines of music, a high level of practical skills in music cognition, analysis, and performance, and high level graduate skills in the gathering, synthesis, criticism and presentation of information. Career options include performance, teaching, broadcasting, arts administration/management, arts event management, composition, conducting, arts advocacy, music recording, film, and arts journalism.

Bachelor of Music/Bachelor of Arts

Program code 3456

Faculty Arts and Social Sciences

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry No

Estimated first year tuition A$26,400

Estimated fee to complete A$154,040

Assumed knowledge Audition/Interview required

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3456.html

Website http://sam.arts.unsw.edu.au/

The Bachelor of Music/Bachelor of Arts is a combined degree that augments the full professional training of the Bachelor of Music with an extensive range of other options within the Faculty of Arts and Social Sciences (for example English, history, languages or international relations).

Career Opportunities
The range of professional careers open to Bachelor of Music graduates is available to Bachelor of Music/Bachelor of Arts graduates. In addition, the Bachelor of Arts qualification offers opportunities in public and private sector administrative and policy positions.

Bachelor of Music/Bachelor of Science

Program code 3457

Faculty Arts and Social Sciences

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry No

Estimated first year tuition A$30,360

Estimated fee to complete A$171,440

Assumed knowledge Audition/Interview required

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3457.html

Website http://sam.arts.unsw.edu.au

The Bachelor of Music/Bachelor of Science combined program enables you to complete a major sequence from those available in science while studying for a specialist music degree involving instrumental performance and/or composition.

Career Opportunities
You can choose between a career in science and a career in music in highly specialised fields where such a combination is essential or provides you with a market advantage. At the innovative end of industry and research, interdisciplinary knowledge is becoming increasingly desirable. You will also be well equipped to do further interdisciplinary study (or research) at the graduate level.

SEE ALSO
Bachelor of Music/Bachelor of Education (Secondary) - page 36

Nanotechnology

Bachelor of Science (Nanotechnology)

Program code 3617

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes (will require summer semester after first semester of study)

Estimated first year tuition A$34,320

Estimated fee to complete A$154,480

Assumed knowledge Maths, Chemistry and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3617.html

Website www.science.unsw.edu.au

Nanotechnology is the science of understanding the structure and behaviour of materials at the atomic and molecular level. Through an understanding of how to manipulate atoms and molecules it is possible to create devices and machines with unique properties and applications.

Nanotechnology provides the potential to create new manufacturing sectors from our ability to observe, characterise and manipulate the atomic and molecular structure of materials which form the basis of the communications, information and environmental technologies.

Program Structure
YEAR 1
Chemistry, Physics, Mathematics, Nanotechnology, Design and Application of Materials

YEAR 2 AND YEAR 3
At the commencement of Year 2, you nominate a major in nanodevices or nanomaterials, and take courses relevant to your chosen major in Years 2 and 3, as well as general education and elective courses.

YEAR 4
Nanotechnology project and electives for nominated major.

Career Opportunities
Graduates pursue careers across a wide range of disciplines. Many pursue careers in research while others work in the science and technology sector or research and development.

Start-up companies and other organisations seek to exploit nanotechnology principles in the manufacture of devices and products and they employ nanotechnology graduates because of their broad training, capacity to think critically and laterally, and their problem solving abilities.

Optometry

Bachelor of Optometry/Bachelor of Science

Program code 3952

Faculty Science

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry No

Estimated first year tuition A$34,320

Estimated fee to complete A$199,190 (includes equipment costs of about A$6,000)

Assumed knowledge Maths, Chemistry and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3952.html

Website www.optom.unsw.edu.au

Optometry combines the theoretical discipline of vision science with the clinical art of primary eye care. It includes the optics of lenses, the physiology of the eye, the psychophysics of vision and the neuroscience of the brain. Optometry includes the diagnosis and management of ocular disease, the dispensing of spectacles and contact lenses, the management of people with special needs (for example, children or people with low vision), sports vision and vision in the workplace. Graduates of this degree will be able to register as an optometrist in Australia.

Program Structure
YEAR 1
Molecules, Cells and Genes, Chemistry, Biological Chemistry for Optometry, Mathematics, Physics, Vision Science, Optics, Evolutionary and Functional Biology or Psychology

YEAR 2
Optometry, Physiology, Introduction to Ocular Disease, Function of the Visual System, Physiology of the Ocular System

YEAR 3
Optometry, Ocular Disease, Pharmacology for Optometry, Developments in Vision Science, Ageing of the Visual System, general education courses

YEAR 4
Optometry, Medicine and Patient Management, Optometry, Clinical Optometry, Ocular Therapeutics, Professional Optometry, general education courses

YEAR 5
Clinical Optometry, Specialist Clinical Optometry, Clinical Ocular Therapeutics, research project

Career Opportunities
Optometry provides graduates with great opportunities to own their own business. Optometrists may specialise in different areas of clinical practice, including paediatrics, contact lenses, occupational optometry, public health, co-management, low vision rehabilitation, sports vision, behavioural optometry and binocular vision.

Professional Recognition
Graduates are eligible for registration as an optometrist in the states and territories of Australia. Please check with local authorities in your home country for professional recognition.

Planning

Bachelor of Planning

Program code 3360

Faculty Built Environment

Minimum years 5 years (including one year of work experience)

Units of credit (per year/total) 48/240

Semester 2 entry Yes*

Estimated first year tuition A$29,910

Estimated fee to complete A$170,510

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3360.html

Website www.be.unsw.edu.au

* Mid-year entry may be available for this program, please check with the faculty for more information.

Planning the lived environment is a complex, dynamic activity. It requires a broad understanding of political, economic, cultural, design, environmental and legal issues. For cities, suburbs and regions, the Bachelor of Planning encompasses the development, improvement, conservation and general management of the environment.

Program Structure
YEAR 1
Development Processes, Environmental Systems and Process, Local Planning, Planning Theory and Practice, Understanding Design, Geographical Information Systems, Urban Society, 1 open elective

YEAR 2
Economics of Planning and Development; 2 general education courses; History, Heritage and the Built Environment; Quantitative Methods, Resources, Planning and the Natural Environment; Urban Design

YEAR 3
Development Assessment, Integrated Planning 2 - Strategic Planning, Planning Law and Administration, Transport and Land Use and Environment, work experience (6 months)

YEAR 4
BEIL: interdisciplinary learning courses, Integrated Planning 3 - Master Planning, Qualitative Methods, Social Planning, work experience (6 months)

YEAR 5
1 open elective; Ethics, Politics and Professionalism; 1 BEIL interdisciplinary learning course; research design; thesis project; specified elective

Career Opportunities
Graduates may pursue careers as an environmental planner, land use planner, strategic planner, urban planner, social planner, or development assessment planner.

Professional Recognition
This degree is recognised by the Planning Institute of Australia.

SEE ALSO
Bachelor of Engineering (Surveying and GeoInformation Systems) page 42
Bachelor of Environmental Science - page 36
Bachelor of Planning/Bachelor of Laws - page 54

Professional Practice

Diploma of Professional Practice

Program code 7018

Minimum years 1 year

Units of credits (total) 48

Semester 2 entry Yes

Estimated first year tuition A$25,200

Estimated fee to complete A$25,200

Assumed knowledge None

Website www.dpp.unsw.edu.au

The Diploma of Professional Practice provides you with formal, structured work-based opportunities to systematically reflect upon and develop your knowledge, skills and capabilities as a global citizen, leader and professional practitioner. On completion of the diploma you should have developed a deeper understanding of, and capability for, leadership, and professional practice in an international community.

This program can only be studied after completion of your Bachelor degree at UNSW.

Psychology

Bachelor of Psychology

Program code 3432

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$34,320

Estimated fee to complete A$154,480

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3432.html

Website www.psy.unsw.edu.au

A discipline of both scientific research and applied practice, psychology is concerned with the study of behaviour and underlying mental and neural processes. Topics include learning, memory, cognition, perception, motivation, life-span development, personality, social interactions, and abnormal psychology. This program meets the requirements of four years of academic training towards membership of the Australian Psychological Society, and state government registration as a psychologist.

Program Structure
YEAR 1
Psychology 1A and 1B, Introduction to Psychology Applications, electives, general education courses

YEAR 2
Research Methods 2, Social and Developmental Psychology, Perception and Cognition, Learning and Physiological Psychology, Assessment, Personality and Psychopathology, electives, general education courses

YEAR 3
Research Methods 3, Physiological Applications, Level 3 Psychology, electives, open electives

Sample list of Level 3 Psychology electives:
Physiological Psychology, Cognitive Science, Vision and Brain, Psychobiology of Memory and Motivation, Language and Cognition, Social Psychology, Behaviour in Organisations, Psychology and Law, Health Psychology, Developmental Psychology

YEAR 4
Psychology 4A and 4B

Career Opportunities
A professional qualification in psychology leads to careers in clinical, organisational and forensic settings as well as teaching and research. The main employer of trained psychologists is the government sector where psychologists work in areas ranging from health, education and community services through to police, corrective services, industrial relations and road and traffic authorities.

Other employers are tertiary institutions, management and personnel consultants, market research organisations and banks. Many psychologists also work in private employment as clinical, educational or industrial consultants.

Professional Recognition
To become a member of the Australian Psychological Society, and for registration as a psychologist in New South Wales, Australia, you must first complete an approved four-year degree in psychology followed by an accredited postgraduate course in psychology such as one of the Master of Psychology degrees (Clinical, Forensic, Organisational) offered at UNSW. An alternative to postgraduate study is two years of supervised experience in professional practice.

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

Bachelor of Psychological Science

Program code 3435

Faculty Science

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$34,320

Estimated fee to complete A$112,440

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3435.html

Website www.psy.unsw.edu.au

The Bachelor of Psychological Science is a three-year program leading to an accredited degree in psychology as well as providing the option of taking a complementary major in a number of related areas. By combining psychology with a major in marketing, management or human resource management from the Australian School of Business students will have an excellent background for careers in the business world. By combining psychology with philosophy, criminology or linguistics from the Faculty of Arts and Social Sciences you will be prepared for a variety of social science careers. If you have a specific interest in physiological and neuroscientific aspects of psychology, you may combine psychology with the study of vision science or neuroscience from the Faculty of Science to prepare you for a career in a healthcare or biomedical research setting.

At the end of your second year, you have the option to choose courses that will provide you with the pre-requisites to gain entry to the honours (fourth) year in psychology.

Program Structure

YEAR 1
Psychology 1A, Psychology 1B, electives

YEAR 2
Research Methods 2; Social and Developmental Psychology; Perception and Cognition; Learning and Physiological Psychology; Assessment, Personality and Psychopathology; electives or general education courses

YEAR 3
Research Methods 3, Psychological Applications, Level 3 Psychology electives, electives or general education courses

Sample list of Level 3 Psychology electives:
Physiological Psychology, Cognitive Science, Vision and Brain, Psychobiology of Memory and Motivation, Language and Cognition, Social Psychology, Behaviour in Organisations, Psychology and Law, Health Psychology, Developmental Psychology

Complementary majors available: neuroscience, vision science, human resource management, management, marketing, linguistics, criminology, philosophy

Career Opportunities
For those wishing to use their degree in psychology as a general training for future employment, the skills acquired during the degree in psychological science are extremely valuable to a wide variety of careers. Psychologists work in a range of organisations within both the public and private sector. These include clinical and health settings such as clinics and hospitals, a diverse collection of commercial and non-profit organisations, and forensic settings such as prisons and law courts. Employers range from the army to schools, from the Roads and Maritime Service to the Department of Health.

For those wishing to practice as a specialist professional psychologist, typical areas of work include clinical, organisational, forensic, counselling and educational psychology.

Psychologists are employed across several industries including health care and social assistance, public administration and safety, education and training, and administrative and support services. This mix of industries is highly favourable for employment growth prospects.

SEE ALSO
Bachelor of Science (Advanced) major in psychology page 62
Bachelor of Arts with major in psychology - page 29

Science

Bachelor of Science

Program code 3970

Faculty Science

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$34,320

Estimated fee to complete A$112,440

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3970.html

Website www.science.unsw.edu.au

The Bachelor of Science is one of the most flexible degree programs at UNSW. This program offers a wide range of study options. It is based on a solid foundation of core areas in science and students can choose from 23 majors. The Bachelor of Science is structured so that you have the opportunity to apply to transfer between this program and other UNSW science programs, including professional and advanced level degrees. If you achieve excellent grades you will be invited to complete an honours fourth year.

Major discipline areas include:

Anatomy is study of the structure of the human body. By understanding the structure of the human body we are better able to appreciate how it functions and why it can malfunction.

Biology is the study of life and living organisms. The School of Biological, Earth and Environmental Sciences offers expertise in the fields of botany, ecology, marine biology and zoology. Botany explores aspects of both green and non-green plants and their relation to the environment. An understanding of ecology is necessary for conservation. Marine biology is about life in the ocean, estuaries and other coastal environments. Zoology looks at the structure, behaviour, habits, genetics, distribution, evolution and classification of animals.

Biotechnology involves harnessing microbial, plant and animal cells and their components for the benefit of people. The essential feature of biotechnology is the use of biological processes based on living cells and biochemical molecules such as proteins, DNA and RNA.

Chemistry deals with the design, synthesis, analysis and properties of molecules. The study of chemistry will appeal to those with an enquiring, analytical mind and good powers of observation and deduction.

Earth Science involves the study of the nature and evolution of the structure of our planet. It covers everything from natural crystals and fossils to the powerful forces that drive earthquakes and volcanoes and move continents across the globe. It also covers environmental geology, geochemistry, geophysics, hydrogeology and groundwater contamination, mineral and petroleum exploration and resources, palaeontology, remote sensing and much more. Field work in different regions of New South Wales is an essential part of geology courses.

Ecology is the science of the relationships between organisms and their environments. To conserve our natural environment we need to understand how animals and plants interact with one another as well as their environment, both on land and in the sea.

Food Science involves the understanding of basic sciences and the application of this knowledge to foods from the point of production up to consumption by consumers. It concerns food processes, commodities, composition and quality (including sensory properties, safety and nutritional value).

Genetics is the study of the basis of inheritance, of DNA and genes. It investigates the way in which biological information is passed on from one generation to the next, as well as how that information is used and stored. Molecular geneticists study the way in which DNA encodes genes, how genes make proteins, and how DNA forms the basis of the way all living things look and function.

Geography is the study of spatial and temporal variations of the phenomena that make up natural and human-dominated environments.

Marine Science looks at all aspects of the marine environment encompassing many sciences from biology to geology.

Materials Science is the underlying science of high performance materials (metals, ceramics, plastics, composites, electronic materials and biomaterials), making things from them and predicting their performance. Also see page 43.

Mathematics is at the basis of very exciting and diverse areas of activity in technological and commercial fields such as computational weather prediction, statistics, investment in financial markets, chaos, optimisation and cryptography.

Mathematics for Education: is a stream for a major in Mathematics for Education as part of a concurrent Bachelor of Science/Bachelor of Education program (4076). Only students enrolled concurrently in both a Bachelor of Science and Bachelor of Education program may take this major. The major ensures that students meet all accreditation requirements with the NSW Institute of Teachers.

Microbiology is the study of the smallest forms of life: bacteria, viruses, archaea, fungi and protozoa. Fundamental principles of chemistry and biology provide a foundation.

Molecular and Cell Biology: The marriage of biochemistry, microbiology, and cell biology provides an exciting new approach for the study of all living organisms, including the human. Molecular biology therefore represents fundamental components of biological and medical science and they will have increasingly important roles to play in many aspects of modern medicine, genetics, evolutionary biology, bioinformatics, biotechnology and genomics.

Neuroscience has two primary goals: one is to understand and explain behaviour and consciousness; the other is to understand and treat diseases of the nervous system such as schizophrenia and Alzheimer's disease.

Pathology is a scientific discipline which involves the study of diseases, such as infections and cancers, at the genetic, molecular, cellular, and organ levels. Undergraduate study in pathology involves examination of various disease processes such as inflammation (including infections), wound healing and cancer.

Pharmacology is the study of drugs and their effects on living tissue and whole organisms. It examines how drugs are discovered, how they are absorbed and eliminated, the mechanics of action and side effects, how drugs help maintain health and counteract illness and disease.

Physical Oceanography is concerned primarily with the mathematical equations that describe fluid flow and how these are used in understanding the ocean. It is also concerned with the measurement, modelling and prediction of processes that form the world's climate system.

Physical Science is the study of the laws of nature that govern the behaviour of the universe. From the very smallest scales of sub-atomic particles to the very largest in cosmology, it applies these laws to the solution of practical problems and the development of new technologies.

Physiology is the study of how the normal body systems function in humans and animals. It examines life processes and their consequences – from the molecular level through to the whole organism. This is one of the major foundations of medicine.

Psychology is concerned with the scientific and systematic study of the human mind and behaviour, in a wide variety of areas. It encompasses the study of cognitive, social, developmental, behavioural and physiological processes.

Statistics is a fascinating science and art that uses quantitative data for modelling and inference. Its mathematical foundations are in the theory of probability and it works out how to estimate and make decisions using knowledge that is uncertain or observational material that is subject to error.

Vision Science deals with the mechanics of sight and includes applied technology to help us see better. The program is designed to develop technologists and scientists who can work in ophthalmic industries to build better instruments and technologies for vision and vision based aspects of other industries.

The availability of majors may be subject to periodical review. Please visit the Faculty of Science website for updates: www.science.unsw.edu.au

Dual Award Degrees

Bachelor of Science/Bachelor of Arts

Program code 3930

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes (may require summer session after first semester of study)

Estimated first year tuition A$30,360

Estimated fee to complete A$137,080

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3930.html

Website www.science.unsw.edu.au

Bachelor of Science/Bachelor of Social Research and Policy

Program code 3937

Faculty Science

Minimum years 4.5 years

Units of credit (per year/total) 48/216

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$30,360

Estimated fee to complete A$154,380

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3937.html

Website www.science.unsw.edu.au

SEE ALSO
Bachelor of Aviation - page 30
Bachelor of Engineering (Bioinformatics) - page 50
Bachelor of Engineering (various programs) pages 37 - 52
Bachelor of Environmental Science - page 36
Bachelor of Medical Science - page 57
Bachelor of Exercise Physiology - page 56
Bachelor of Optometry/Bachelor of Science - page 58
Bachelor of Planning - page 59
Bachelor of Psychology - page 59
Bachelor of Science (Biotechnology) - page 31
Bachelor of Science (Food Science and Technology) page 49
Bachelor of Science (Nanotechnology) - page 58
Bachelor of Commerce/Bachelor of Science - page 32
Bachelor of Engineering (various programs)/Bachelor of Science - pages 37 - 52
Bachelor of Music/Bachelor of Science - page 58
Bachelor of Science/Bachelor of Education (Secondary) - page 36
Bachelor of Science/Bachelor of Laws - page 54
Bachelor of Economics/Bachelor of Science - page 35
Bachelor of Computer Science/Bachelor of Science - page 52

Bachelor of Science (International)

Program code 3987

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$30,360

Estimated fee to complete A$137,080

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3987.html

Website www.science.unsw.edu.au

The Science (International) program is designed for students wishing to obtain a highly regarded science award coupled with specific emphasis on cross-cultural skills, knowledge and understanding. The program also provides the knowledge and skills essential for understanding and working in the rapidly changing global environment. It will provide a wide range of career opportunities in global scientific organisations and companies, international government and non-government agencies and in scientific research.

The program requires you to undertake a coherent scientific program, achieved by completing a science-based major and adds a series of directed electives to provide a suite of attributes associated with 'global education'. The program also places emphasis on cross cultural understanding, competencies in languages and incorporates a period of overseas study.

Program Structure
You will complete a science-based major; a sequence of language courses; electives which cover cultural studies, international business, development studies and globalisation; and an overseas exchange for two semesters at an approved partner university. You are provided with a contribution towards the expenses of the exchange by the Faculty of Science.

Choose a major from the following areas:

- Anatomy
- Biology
- Biotechnology
- Chemistry
- Earth Science
- Ecology
- Food Science
- Genetics
- Geography
- Marine Science
- Materials Science
- Mathematics
- Microbiology
- Molecular and Cell Biology
- Neuroscience
- Pathology
- Pharmacology
- Physical Oceanography
- Physical Science
- Physiology
- Psychology
- Statistics
- Vision Science

The availability of majors may be subject to review. Please visit the Faculty of Science website for updates: www.science.unsw.edu.au

Bachelor of Science and Business

Program code 3925

Faculty Science

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$34,080

Estimated fee to complete A$111,300

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3925.html

Website www.science.unsw.edu.au

The program has been developed to provide a new generation of scientists for today's increasingly competitive and business-aware world. It allows students to combine a coherent stream of studies

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

in a contemporary science discipline with courses that provide a broad background to business and management. You will study a range of foundation business courses that will provide exposure to several aspects of business practices, and will also have the opportunity to increase your breadth of experience using electives, and select from a limited number of higher year courses to gain a greater understanding of a feature of the commercial domain.

Program Structure
96 UOC of approved science major, 48 UOC of business component, comprising 24 UOC of foundation business courses and 24 UOC of business electives (business law, marketing and management).

Choose a major from the following areas:

- Anatomy
- Biology
- Biotechnology
- Chemistry
- Earth Science
- Ecology
- Food Science
- Genetics
- Geography
- Marine Science
- Materials Science
- Mathematics
- Microbiology
- Molecular and Cell Biology
- Neuroscience
- Pathology
- Pharmacology
- Physical Oceanography
- Physical Science
- Physiology
- Psychology
- Statistics
- Vision Science

Career Opportunities
The program has been designed for students whose passion is science, but who also recognise that awareness of contemporary business practices can be vital in the modern workplace.

SEE ALSO
Bachelor of Economics/Bachelor of Science - page 35
Bachelor of Science (Advanced)/Bachelor of Law page 54
Bachelor of Science (Advanced Mathematics)/ Bachelor of Law - page 54
Bachelor of Music/Bachelor of Science - page 58

ADVANCED SCIENCE

Bachelor of Science (Advanced Science)

Program code 3972

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$34,320

Estimated fee to complete A$154,480

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3972.html

Website www.science.unsw.edu.au

Advanced science programs provide a challenge to students with an interest in critical thinking, research and innovation. Tailored specifically for talented students, these programs require four years of full-time study, including a research-based year of training leading to an honours award.

A wide choice of majors, designed to meet specific aims and objectives, is available. Most majors are identified with a particular school or discipline (for example anatomy, chemistry). Depending on the program of study, in your fourth year you may undertake either a research honours program or a program of coursework and research. Outstanding honours degree students may continue studies in a higher research degree.

STUDY PLANS IN ADVANCED SCIENCE

- Advanced Physical Oceanography
- Anatomy
- Biological Science
- Biotechnology
- Chemistry
- Climate Dynamics
- Climate Systems Science
- Earth Science
- Ecology
- Genetics
- Geochemistry
- Human Geography
- Marine and Coastal Science
- Materials Science
- Mathematics
- Microbiology
- Molecular and Cell Biology
- Neuroscience
- Pathology
- Pharmacology
- Physical Geography
- Physics
- Physiology
- Psychology
- Statistics
- Vision Science

The availability of the majors may be subject to review. Please visit the Faculty of Science website for updates: www.science.unsw.edu.au

Dual Award Degrees

Bachelor of Science (Advanced Science)/ Bachelor of Arts

Program code 3931

Faculty Science

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$34,320

Estimated fee to complete A$181,640

Assumed knowledge Maths and Chemistry plus Biology or Earth and Environmental Science or Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3931.html

Website www.science.unsw.edu.au

SEE ALSO
Bachelor of Science (Advanced)/Bachelor of Laws - page 54
Bachelor of Science (Advanced)/Bachelor of Social Research and Policy - page 61
Bachelor of Science (Advanced)/Bachelor of Economics - page 35

ADVANCED MATHEMATICS

Bachelor of Science (Advanced Mathematics)

Program code 3986

Faculty Science

Minimum years 4 years

Units of credit (per year/total) 48/192

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$34,320

Estimated fee to complete A$154,480

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3986.html

Website www.maths.unsw.edu.au

This program targets high achievers who wish to specialise in mathematics as a basis for the increasing range of quantitative careers such as finance, environmental modelling and research. The degree will allow students to focus on mathematics to provide a comprehensive foundation in research.

The quantitative risk major is Australia's first-degree program in this emerging area and is sponsored by the Commonwealth Bank of Australia and SAS to address severe skills shortage in this area.

STUDY PLANS IN ADVANCED MATHEMATICS

- Applied Mathematics
- High Performance Student Plan*
- Pure Mathematics
- Quantitative Risk*
- Advanced Statistics

*Students can only undertake this study plan with approval from the head of school.

Dual Award Degrees

Bachelor of Science (Advanced Mathematics)/ Bachelor of Arts

Program code 3933

Faculty Science

Minimum years 5 years

Units of credit (per year/total) 48/240

Semester 2 entry Yes (may require summer semester after first semester of study)

Estimated first year tuition A$32,340

Estimated fee to complete A$181,100

Assumed knowledge Maths

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3933.html

Website www.maths.unsw.edu.au

SEE ALSO
Bachelor of Commerce/Bachelor of Science (Advanced Mathematics) - page 32
Bachelor of Science (Advanced Mathematics)/ Bachelor of Laws - page 54
Bachelor of Actuarial Studies/Bachelor of Science (Advanced Mathematics) - page 26

Social Research and Policy

Bachelor of Social Research and Policy

Program code 3420

Faculty Arts and Social Sciences

Minimum years 3 years

Units of credit (per year/total) 48/144

Semester 2 entry Yes

Estimated first year tuition A$26,400

Estimated fee to complete A$87,240

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/3420.html

Website http://socialsciences.arts.unsw.edu.au

The Bachelor of Social Research and Policy has a core program in social science, policy analysis and research methods, combined with a major from the list below and an internship program. The program offers the best of both worlds – knowledge and skills. Career opportunities are broad and can be tailored to your interests. You will develop skills in social science research and policy analysis in the core program and learn how to access existing knowledge but also to create new knowledge that can be applied in workplaces – a skill which is in high demand in today's knowledge economy.

Program Structure
Courses within your major study area are completed in each year of the program. Major study areas include: development studies, economics, environmental studies, humanities, globalisation studies, human resource management, indigenous studies, international business, international relations, marketing, media, culture and technology, politics, sociology and anthropology.

Courses of the program include:

YEAR 1
Research and Information Management, Social Science and Policy

YEAR 2
Applied Social Research 1, Policy Analysis Case Studies

YEAR 3
Social Theory and Policy Analysis, Applied Social Research 2, Social Science and Policy Project, Social Research and Policy Graduates in the Workplace, Social Research and Policy Internship

You also complete open electives and general education electives as part of this program.

Career Opportunities
Graduates work in quantitative and qualitative research; policy development, implementation and analysis; project design and management; community development, market research; corporate affairs management; and as political advisors.

Dual Award Degrees Programs
Bachelor of Art Theory/Bachelor of Social Research and Policy - page 28
Bachelor of Science/Bachelor of Social Research and Policy - page 61
Bachelor of Social Research and Policy/Bachelor of Laws page 54
Bachelor of Social Work/Bachelor of Social Research and Policy - page 63

Social Work

Bachelor of Social Work

Program code 4031

Faculty Arts and Social Sciences

Minimum years 4 years

Units of Credit (per year/total) 48/192

Semester 2 entry No

Estimated first year tuition A$27,390

Estimated fee to complete A$120,670

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4031.html

Website http://socialsciences.arts.unsw.edu.au

The Bachelor of Social Work is a professional program designed to prepare you for the professional practice of social work including work in the wider field of welfare. The degree at UNSW is one of the few four-year programs in Australia that commences teaching social work practice courses and skills from year one. The focus on social work practice skills is enriched by the field education program, during which students learn to apply the principles of professional practice in social work settings, under the supervision of practising social workers. Placement opportunities of 140 days are available both within Australia and in partnering countries.

Program Structure

YEAR 1
Introduction to Social Work, Communication and Social Work Practice, Human Behaviour 1, psychology course, sociology courses, open electives

YEAR 2
Human Behaviour 2, Individuals, Families and Groups 1, Society and Social Work 1 and 2, Research for Social Work, Community Work, Aboriginal People and Social Work, general education course

YEAR 3
Year 3 Practicum, Individuals, Families and Groups 2, Social Policy 1, Socio-Legal Practice, Selected Studies 1, research elective, open elective

YEAR 4
Year 4 Practicum, Social Work Practice in Organisations, Selected Studies 2, Social Philosophy, Social Policy 2

Career Opportunities
Opportunities for social workers are diverse and include work in government services, hospitals, local government – in social planning and in the organisation and delivery of services for local residents, non-government welfare agencies, and industrial/corporate settings. Social workers can also work in private practice as counsellors or psychotherapists or as consultants in planning and social policy, international aid, politics, rights and education.

Professional Recognition
Graduates are eligible for membership of the Australian Association of Social Workers.

Dual Award Degrees

Bachelor of Social Work/Bachelor of Arts

Program code 4037

Faculty Arts and Social Sciences

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry No

Estimated first year tuition A$26,400

Estimated fee to complete A$172,180

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4037.html

Website http://socialsciences.arts.unsw.edu.au

Bachelor of Social Work/Bachelor of Social Research and Policy

Program code 4042

Faculty Arts and Social Sciences

Minimum years 6 years

Units of Credit (per year/total) 48/264

Semester 2 entry No

Estimated first year tuition A$27,390

Estimated fee to complete A$191,310

Assumed knowledge None

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4038.html

Website http://socialsciences.arts.unsw.edu.au

SEE ALSO
Bachelor of Social Work/Bachelor of Laws - page 54

Bachelor of Social Work/Bachelor of Criminology and Criminal Justice

Program code 4039

Faculty Arts and Social Sciences

Minimum years 5.5 years

Units of credit (per year/total) 48/264

Semester 2 entry No

Estimated first year tuition A$26,400

Estimated fee to complete A$172,180

Assumed knowledge Maths and Physics

Online Handbook www.handbook.unsw.edu.au/undergraduate/programs/current/4039.html

Website http://socialsciences.arts.unsw.edu.au

Note: Estimated first year tuition is based on 2013 tuition fees.

Total program costs are indicative only. Indicative fees have been calculated on a percentage increase for every year of the program. Fee increases are assessed annually and may exceed the indicative figures listed above.

Estimated fee to complete includes tuition and an estimate of study-related costs of A$1,000 per year.

Living expenses are not included in estimated fee to complete

2014 International Undergraduate Direct Entry Guide

This table is a guide only and actual entry points may be higher or lower than those indicated. In all cases admission will be determined upon the receipt of an application. The University reserves the right to vary entry requirements to those published without further notice. For further explanations of this table refer to the key on page 66.

		ATAR ❶	UNSW UFS ❷	GCE A Levels	Singaporean A Levels	IB	Gao Kao	HKDSE	Malaysian STPM	Malaysian Unified Exam Cert. (UEC)	India AISSC	India ISC	Sri Lankan GCE	SAT 1	Canadian OSSD	German Abitur	French Bacc.	Norway	Sweden
		International Qualifications - Students with other equivalent qualifications are encouraged to apply ❸																	
Arts and Social Sciences	B Arts	73.00	7.0	10	14	27	80	16	8	2	8	70	6	1510	60	3.4	11.5	2.8	2.1
	B Arts and Business	85.00	7.5	11	17	31	83	18.5	13	2	12	84	9	1660	73	2.7	12.5	3.7	2.7
	B Arts/B Education (Secondary)	73.00	7.0	10	14	27	80	16	8	2	8	70	6	1510	60	3.4	11.5	2.8	2.1
	B Science/B Education (Secondary)	79.00	7.0	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Commerce/B Education (Secondary)	92.00	8.0	14	19	34	88	20	16	1	15	89.5	10	1790	81	2.3	13.25	4.5	3.2
	B Economics/B Education (Secondary)	90.00	7.8	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B International Studies	88.00	7.5	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
	B Social Research and Policy	70.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Criminology and Criminal Justice	78.00	7.0	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
	B Social Work	72.00	7.0	10	14	28	80	16	9	2	8.5	72	6	1530	61	3.4	11.5	3	2.1
	B Music	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Music/B Science	78.00	7.0	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Music/B Science (Advanced Science)	90.00	7.5	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B Music/B Education	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Media in Communication and Journalism	79.00	7.5	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
	B Media in Media Production	79.00	7.0	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
	B Media in Public Relations and Advertising	79.00	7.5	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
	B Media in Screen and Sound	79.00	7.0	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
Australian School of Business	B Commerce	92.00	8.0	14	19	34	88	20	16	1	15	89.5	10	1790	81	2.3	13.25	4.5	3.2
	B Commerce (International)	92.50	8.2	15	20	35	88	21.5	17	1	15.5	91	11	1840	84	2.1	13.5	4.6	3.2
	B Commerce/B Science (Advanced Mathematics)	92.00	8.0	14	19	34	88	20	16	1	15	89.5	10	1790	81	2.3	13.25	4.5	3.2
	B Actuarial Studies	92.50	8.5	15	20	35	88	21.5	17	1	15.5	91	11	1840	84	2.1	13.5	4.6	3.2
	B Economics	90.00	7.8	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B Information Systems	84.50	7.6	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
Bulit Environment	B Architectural Studies	90.00	8.0	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B Architectural Computing	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Construction Management and Property	75.00	7.0	10	16.5	30	80	18	12	2	11	82	8	1620	69	3	12.25	3.4	2.5
	B Industrial Design	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Interior Architecture	75.50	7.5	10	14	27	80	15.5	8	2	8	70	6	1510	60	3.5	11.5	2.8	2.1
	B Landscape Architecture	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Planning	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
COFA - Art, Design, Media	B Fine Arts (Hons)	70.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Fine Arts/B Arts	73.00	7.0	10	14	27	80	16	8	2	8	70	6	1510	60	3.4	11.5	2.8	2.1
	B Design (Hons)	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Media Arts (Hons)	70.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Art Education	70.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Design (Hons)/B Art Education	75.50	7.0	10	14	27	80	15.5	8	2	8	70	6	1510	60	3.5	11.5	2.8	2.1
	B Art Theory	70.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
Engineering	B Engineering ❹	88.00	7.3	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
	B Engineering (Electrical)/M Engineering (Electrical)	92.00	7.3	15	19.5	34	88	21	16	1	15	90	10	1810	82	2.2	13.5	4.6	3.2
	B Engineering (Civil with Architecture)	93.00	N//A	15	20	35	88	21.5	17	1	16	92	11	1840	84	2.1	13.5	4.6	3.2
	B Science (Food Science and Technology)	88.00	7.3	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
	B Science (Computer Science)	88.00	7.3	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
	B Engineering/B Arts or Engineering/B Science	88.00	7.3	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
	B Engineering/B Commerce	92.00	8.0	14	19	34	88	20	16	1	15	89.5	10	1790	81	2.3	13.25	4.5	3.2
	B Engineering/M Biomedical Engineering ❺	88.00	7.5	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
Law	Law Dual Degree ❻	94.50	8.5	16	21	36	n/a	22.5	19	N/A	17.5	95	13	1910	88	1.7	14.25	4.9	3.5
Medicine	B Medical Studies/Doctor of Medicine	96.00	N/A	17	22	38	n/a	24	19	N/A	18	96	14	1960	92	1.4	14.75	5.3	3.6
	B Exercise Physiology	83.00	7.5	10	16.5	30	80	18	12	2	11	82	8	1620	69	3	12.25	3.4	2.5
Science	B Science	78.00	7.0	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Science and Business	85.00	7.5	11	17	31	83	18.5	13	2	12	84	9	1660	73	2.7	12.5	3.7	2.7
	B Science/B Arts	78.00	7.0	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Science/B Social Research and Policy	78.00	7.0	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Science (Advanced Mathematics)	91.00	8.0	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B Science (Advanced Mathematics)/B Arts	91.00	8.0	14	19	34	88	20	16	1	15	89.5	10	1790	81	2.3	13.25	4.5	3.2
	B Science (Advanced Science)	90.00	7.5	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B Science (Advanced Science)/B Arts	90.00	7.5	13	18.5	33	85	20	16	1	14.5	89	10	1770	80	2.4	13.25	4.4	3.1
	B Science(Biotechnology)	78.00	7.0	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Science (International)	84.00	7.8	11	16.5	31	80	18	12	2	11.5	83	8	1640	70	2.8	12.5	3.6	2.6
	B Science (Nanotechnology)	80.00	7.5	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
	B Aviation (Flying)	80.00	7.0	10	15.5	29	80	17	10	2	9.5	77.5	7	1580	65	3.2	12	3.2	2.3
	B Aviation (Management)	75.00	7.0	10	14	27	80	15.5	8	2	8	69	6	1500	59	3.5	11.5	2.5	2.1
	B Environmental Science	78.00	7.5	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Environmental Science/B Arts	78.00	7.5	10	14.5	28	80	16.5	9	2	9	74	6	1540	62	3.3	11.75	3.1	2.1
	B Engineering (Material Science and Engineering)	79.00	7.0	10	15	28	80	17	9	2	9	75	6	1560	64	3.2	11.75	3.2	2.1
	B Engineering (Material Science and Engineering)/B Commerce	92.00	8.0	14	19	34	88	20	16	1	15	89.5	10	1790	81	2.3	13.25	4.5	3.2
	B Engineering (Material Science)/B Engineering (Chemical Engineering)	88.00	7.3	12	18	32	83	19.5	15	2	14	88	9	1720	77	2.5	13	4	2.8
	B Engineering(Material Science and Engineering)/M Biomedical Engineering	88.00	7.5	12	17.5	31	83	19	14	2	13	86	9	1680	74	2.6	12.75	3.8	2.7
	B Medical Science	90.00	8.0	13	18.5	33	85	19.5	15	2	14.5	88.5	9	1740	78	2.4	13	4.2	3
	B Medicinal Chemistry	85.50	7.8	12	17.5	31	83	18.5	14	2	12.5	85	9	1680	74	2.6	12.75	3.8	2.7
	B Optometry/B Science	95.00	N/A	16	21	37	n/a	23	19	n/a	17.5	95	13	1930	89	1.6	14.5	5	3.5
	B Psychological Science	82.00	7.5	10	16	30	80	17.5	11	2	10.5	81	7	1610	68	3	12.25	3.4	2.3
	B Psychology	93.00	8.0	15	20	35	88	21.5	17	1	16	92	11	1840	84	2.1	13.5	4.6	3.2
	UNSW Foundation Studies (Transition Program)	75	NA	8	10	24	70 ❼	15 ❽	7	3	8	70	5	1540	60	3.2	11	2.8	2.1

Entry guide key and notes

Entry Guide Key

- A number of dual degrees exist. Refer to the Program Information section for details. Admission is determined at the higher entry requirement of the two programs.
- Some programs require the approval of the Program Authority and may have additional selection criteria. For further details refer to the school website listed in the Program Information section. Scores indicated are a guide to the minimum required.
- Applicants who are required to apply through the Universities Admissions Centre (UAC) and are applying for admission to Engineering may be eligible for the Faculty of Engineering Admissions Scheme. For more information please see www.eng.unsw.edu.au/feas/index/htm
- Special program notes

Aviation (Flying)
All applicants are to submit an internal departmental application form, Class 1 medical certificate from a designated aviation medical centre and flight aptitude testing. This program has an earlier semester commencement.

Civil Engineering with Architecture
There are limited places only for international applicants. While offers will be made progressively upon receipt of application, applicants should be aware strict quotas apply for this program and early submission of application is recommended.

Medical Science
There are limited places only for international applicants.

Music
Selection is based on academic performance and audition and/or interview.

Medicine
All international applicants are required to sit ISAT. Applicants must also submit an online registration form available from www.med.unsw.edu.au and read the faculty admissions information carefully. Some applicants may also be interviewed.

Optometry
Limited places only for international applicants. UMAT required for those residing in countries where it is available – currently this includes Australia, New Zealand, Singapore and the United Kingdom.

Honours programs
A number of options are available. For further details refer to the school website listed in the Program Information section.

Program Information

❶ Australian ATAR entry requirements are indicative only and are provided as a guide to prospective students applying through the Universities Admissions Centre (UAC) at www.uac.edu.au. Actual entry requirements will be finalised in late 2013.

❷ Entry requirements for UNSW foundation studies will be confirmed prior to the commencement of UNSW study and at the time of printing were still subject to confirmation from some academic areas.

❸ **GCE A Levels**
Entry requirements are based on the best 3 A-Level subjects completed in the same academic year. Scores indicated in the table are derived from the following values: A*=6, A=5, B=4, C=3, D=2 and E=1. A fourth A-Level subject may also be taken into account for some applications.

Gao Kao
Entry requirements are based on the percentage average of all attempted subjects in the National Higher Education Entrance Examination (Gao Kao). Refer to the Gao Kao Table for the maximum marks of each province.

Maximum marks are reviewed annually by the Chinese Governement. For more current information please refer to: www.international.unsw.edu.au/study/degree-programs/undergraduate/undergradate-degree-entry-requirements/

Province	Maximum Points
Anhui	750
Beijing	750
Chongqing	750
Fujian	750
Gansu	750
Guangdong	750
Guangxi	750
Guizhou	750
Hainan	900
Hebei	750
Heilongjiang	750
Henan	750
Hubei	750
Hunan	750
Inner Mongolia	750
Jiangsu	480
Jiangxi	750
Jilin	750
Liaoning	750
Ningxia	750
Qinghai	750
Shaanxi	750
Shandong	750
Shanghai	600
Shanxi	750
Sichuan	750
Tianjin	750
Xinjiang	750
Xizang (Tibet)	750
Yunnan	772
Zhejiang	810

HKDSE
Entry requirements are based on the total points achieved from the four core subjects and the best grade in one Category A elective subject. Category B and C subjects are not counted. Grades for all subjects except mathematics are counted as follows: Level 5** and Level 5*=6, Level 5=5, Level 4=4, Level 3=3, Level 2=2 and Level 1=1. Grades for compulsory mathematics are counted as follows: Level 5** and Level 5*=3, Level 5=2.5, Level 4=2, Level 3=1.5, Level 2=1 and Level 1=0.5. Grades for extension mathematics are counted as follows: Level 5** and Level 5*=4, Level 5=3.5, Level 4=3, Level 3=2.5, Level 2=2 and Level 1=1.5.

Singapore A Levels
Entry requirements are based on a maximum of the best three H1 subjects, the best three H2 subjects and one H3 subject. Scores indicated in the table are derived from the following values: H1 – A=2.5, B=2, C=1.5, D=1, E=0.5; H2 – A=5, B=4, C=3, D=2, E=1; H3- Distinction = 2.5, Merit = 1.5, Pass = 1. An additional H2 or H3 subject may also be taken into account for some applications.

International Baccalaureate (IB)
Results based on scores required for entry into UNSW in 2013 and only applicable if Diploma has been completed. Students currently attempting the IB should apply direct to UNSW or through the Universities Admissions Centre (UAC). For more details, visit www.uac.edu.au

Malaysian STPM
Entry requirements can vary depending upon the number of AL subjects chosen. Table based on four A-level subjects where A=7, A-=6, B+=5, B=4, B-=3, C+=2, C=1.

Canadian OSSD
Ontario Secondary School Diploma based on overall average score including six university preparation courses or university/college preparation courses.

All India Senior School Certificate
Awarded by CBSE, overall grade in best four externally examined subjects where A1=5, A2=4.5, B1=3.5, B2=3, C1=2, C2=1.5, D1=1, D2=0.5.

Indian School Certificate
Awarded by ICSE, overall average on best four externally examined subjects.

Sri Lankan General Certificate of Education
Based on best three A-level subjects where A=5, B=4, C=3, S=1.

SAT1
Scholastic Aptitude Test (SAT) based on the total of critical reading, mathematics and writing test scores. Must be provided in conjunction with evidence of successful completion of equivalent Australian Year 12 secondary studies.

Malaysian Unified Examination Certificate
Entry requirements are based on overall average of the best five subjects (excluding vocational subjects) where A1 =1, A2 =2, B3=3, B4=4, B5=5, B6=6, C7=7, C8=8, F9=0.

Forecast or Predicted results for A Levels (not Hong Kong) and the IB will be considered, except for medicine and law. These must be printed on official school letterhead and include the institutional stamp and signature of the Principal, Registrar or Academic Director. Results should be dated after 1 January (A Levels and IB) for entry in second semester, and after 1 September (A Levels) for March entry. Applicants who meet the entry requirement with predicted results will be given a full offer. Applicants will be required to submit final results and proof of completion when available.

❹ includes Aerospace, Bioinformatics, Chemical, Civil, Computer, Electrical, Environmental, Food Science and Technology, Industrial Chemistry, Manufacturing and Management, Mechanical, Mechatronic, Mining, Naval, Petroleum, Photonics, Photovoltaics and Solar, Renewable, Software, Surveying and Telecommunications.

❺ includes Bioinformatics, Chemical, Computer, Electrical, Mechanical, Mechatronic, Software, Telecommunications.

❻ includes Arts, Art Theory, Commerce, Criminology, Economics, Engineering, Fine Arts, International Studies, Media, Planning, Social Research and Policy, Social Work, Science, Science (Advanced Science), Science (Advanced Mathematics), Science (Computer Science).

UNSW TRANSITION PROGRAM
The UNSW transition program is a pathway program for entry into most UNSW Bachelor degrees. Please note:
- minimum mathematics requirements may apply in some programs
- bonus points may be awarded for taking science and extended mathematics subjects for HKDSE, Singapore A-Levels and Malaysian STPM qualifications
- longer programs are available if entry requirements for the Transition Program are not met

⑦ **Gao Kao**
65% - 70%. 70% in mathematics for science programs is required and 65% in mathematics for commerce programs.

Ⓡ **HKDSE**
Score of 15 points over 5 best subjects from Category A only with a 4 overall in mathematics for science programs and 3 in mathematics for commerce programs. English score of 3 is accepted for entry.

Important information regarding UAC

The Universities Admissions Centre (UAC) processes undergraduate program applications for institutions in the Australian states of New South Wales and the Australian Capital Territory.

Do I need to apply through UAC?
International students who are completing one of the following qualifications must apply through UAC:
a) an Australian Year 12 qualification in Australia OR overseas
b) the International Baccalaureate (IB) in Australia OR overseas; and will complete the IB in May 2014
c) the New Zealand National Certificate of Educational Achievement (Level 3)

If you do not fall into the above categories, you must apply directly to UNSW at www.apply.unsw.edu.au or submit a paper application.

How do I apply through UAC?
International students within the above mentioned categories must apply through UAC International www.uac.edu.au/international. The website will guide you through the process and also has a section for frequently asked questions.

Alternatively, UNSW-authorised agents can also assist you with the application process.

During the process you will receive a UAC application number and UAC PIN. You will need to keep these details to be able to log into the UAC website at any time to check or change your program preferences and access your offer (should you meet the entry requirements of your chosen program).

When do I need to apply?
The application cycle goes from August to June every year.
Applications for Semester 1 (February) entry opens in early August and closes at the end of October.
Applications for Semester 2 (July) entry opens April and closes in early June.

Check the UAC website for further information on late applications.

What is the cost to apply via UAC?
There is a non-refundable processing charge payable by credit or debit card or via Paypal. This charge covers applications to multiple programs and universities.

How are my results released to UAC?
UAC requires you to provide your permission to allow your results to be released directly to UAC. Contact your school's IB/HSC coordinator before the UAC deadline to confirm that your school has submitted this request on your behalf.

I am an IB student. Can I receive an offer based on my predicted grades?
For applicants who complete the IB in May, you may receive an offer for Semester 2 (July) entry based on your predicted grades. You must at least meet current entry requirements for your chosen program. The statement of predicted grades must:
- Be issued on school letterhead and signed by the Principal, School Director, Deputy School Director or Registrar
- Include the date of issue, expected date of graduation, expected results release date, predicted mark for each subject undertaken and your predicted total aggregate.

For applicants who complete the IB in November, offers will only be made upon the release of your official final results. This is because your results will be available in time for the Semester 1 offer cycle.

When will I receive my offer?
Offers for programs are released in:
- December to February for Semester 1 entry
- April for Semester 2 entry

Accepted qualifications

Country	Accepted Qualifications	Notes
Africa	B D H	GCE A level or West African A-level subjects at one sitting
Argentina	B D	
Australia	B D H	Higher School Certificate Entry based on state ranking index such as ATAR and TER etc. Refer to UNSW Admissions rank column on pages 64 to 65 for indicative grades
Bangladesh	B4	
Brazil	B D	
Canada	B D H	Canadian OSSD, Canadian Matriculation, or other provincial equivalents
China (PRC)	B D H	Gao Kao Examination Applicants with completed degrees should provide certified proof of completion including National Emblem, certificate number and accreditation of the degree
Colombia	B D	
Denmark	B D H	Danish Studentereksmen or equivalent
European	B D H	European Baccalaureate Union
Fiji	B D H	Fijian 7th Form Certificate
Germany	B D H	German Abitur
France	B D H	French Baccalauréat
Hong Kong	B D H	
India	B D H	All India Senior Secondary School Certificate or Indian School Certificate (Grade 12)
Indonesia	B D	
Israel	B D H	Israel Teudat Bagrut
Italy	B D H	Italian High School Diploma
Japan	B D	
Jordan	B D	
Korea	B D	
Lebanon	B D H	Lebanese Baccalaureate
Malaysia	B D H	STPM; Malaysian Matriculation Certificate (from the year 2000 onwards) or Unified Examination Certificate
Mexico	B D	
Norway	B D H	Norweigan Certificate of Completion of Upper Secondary School Examination or equivalent
New Zealand	B D H	New Zealand National Certificate of Educational Achievement Level 3 (NZCEA)
Oman	B D	
Pakistan	B4	
Philippines	B D	Completion of the first year of a Bachelor degree at an approved university otherwise a completed Bachelor degree
Russia	B D	
Saudi Arabia	B D	
Singapore	B D H	Singapore Cambridge GCE A level
South Africa	B D H	South African Senior Certificate or Matriculation Certificate of the Joint Matriculation Board
Spain	B D H	Spanish University Orientation Year or equivalent
Sri Lanka	B D H	Sri Lankan A-level subjects at one sitting
Sweden	B D H	Swedish Secondary Leaving Certificate
Taiwan (ROC)	B D	Completion of the first year of a Bachelor degree, or a diploma from Junior College
Thailand	B D H	Thailand Certificate of Secondary Education
United Arab Emirates	B D	
United States Of America	B D H	SAT1 (Math, Verbal and Critical Writing) or ACTs, and provide proof of completion of final year of high school
Vietnam	B D	

The qualifications listed on this page will be considered for entry into undergraduate programs. Students are assessed on actual results achieved and not simply on completion of their qualification.

For further information or If you have completed a qualification not listed on this page please contact the UNSW Admissions Office:
T: +61 2 9385 3656
E: admissions@unsw.edu.au

Other Accepted Qualifications

Foundation Year Programs
Foundation programs of all Australian Group of Eight universities are recognised. In addition to achieving the required grade point average (GPA) and English language cut off, students must meet additional requirements for entry into some programs.

GCE A Levels
GCE A-level (A2) subjects in one calendar year.

International Baccalaureate
Completion of the International Baccalaureate Diploma.

SAT 1
Math, Verbal and Critical Writing (SAT1) and proof of completion of final year of high school.

Accepted Qualifications Key

B	Completion of the first year of a recognised university Bachelor degree
B4	Completion of the first year of a 4-year Bachelor degree at a recognised university, otherwise a completed 2-3 year Bachelor degree
D	Completion of a recognised college or polytechnic diploma
H	Completion of a recognised high school qualification

There is more than one way to gain entry to UNSW

YOUR GLOBAL CAREER

YOUR DEGREE

Academic entry requirements

High school studies

Direct entry applicants to UNSW must hold high school qualifications that are acceptable to UNSW for admission. As a minimum, you must have a qualification considered to be equivalent to a year 12 qualification (completion of high school) in Australia. Some of the qualifications accepted by UNSW are listed on page 64. If your qualifications are not listed contact the UNSW Admissions Office to check whether your qualifications are recognised: admissions@unsw.edu.au

Direct Entry Table: page 64

UNSW Foundation Studies

UNSW Foundation Studies can be completed by students who do not meet UNSW entry requirements or whose high school qualifications are not recognised by UNSW. After completing Foundation Studies in the appropriate academic stream if you achieve the grade point average and English language result required for entry into the UNSW program you will qualify for a place in to study at UNSW.

UNSW Foundation Studies:
page 70 and 71 or visit
www.ufs.unsw.edu.au

Recognised prior study

Prior study can be recognised for applicants who have graduated with diplomas from recognised institutions. This is called articulation. Entry is based on academic achievement during your diploma studies. If you intend to use a diploma as a pathway to UNSW we reccommend that you confirm accreditation before committing to a study program. The UNSW Admissions Office can confirm whether your study can be recognised: admissions@unsw.edu.au

Refer to the online articulation tool: www.articulation.unsw.edu.au

University transfer

To transfer from your current university to UNSW you must have completed at least one year of a Bachelor degree at a recognised university. Entry will be based on academic results achieved during these studies. Some faculties will also consider final year high school qualifications of applicants applying with results from one year of university study. The UNSW Admissions Office can confirm whether your university studies can be recognised: admissions@unsw.edu.au

You may also be able transfer credit for subjects you have already studied.

Refer to the online credit transfer tool: www.credittransfer.unsw.edu.au

English language entry requirements

Evidence of English language ability

If your first language is not English, you must provide evidence that your English language ability meets the University's English language requirements policy. This means that you must submit results from an acceptable English language test that you have taken in the last two years prior to starting study at UNSW.

English language requirements policy: www.unsw.edu.au/english-requirements-policy

Scan to view our English language policy

Evidence of prior education taught and assessed in English

If your first language is not English but you have completed at least one year of full-time academic study at an approved post-secondary/tertiary institution where English is the sole medium of instruction you may not be required to sit a language test. A statement or certificate from the registrar/principal of the institution confirming this must be provided. You must have been completed this study no more than two years prior to starting study at UNSW.

Contact the UNSW Admissions Office to check whether your previous study can be recognised: admissions@unsw.edu.au

Completion of English studies at UNSW Institute of Languages

If you do not meet UNSW's English language requirements but meet the academic entry requirements you can be issued with a conditional package offer of admission. The condition being you must complete further studies in English. Once you have met the English language requirement, you will be eligible for full admission.

Successfully complete the University English Entry Course with us and the condition of your offer would be fulfilled. Your UNSW degree and English langauge program can then be packaged under one visa covering your entire stay in Sydney.

UNSW Institute of Languages: www.languages.unsw.edu.au or page 69.

APPLICATION

UNSW English Language Requirements

International English Language Testing System (IELTS) - Academic
Overall minimum score of 6.5 with a minimum score of 6.0 in the sub-tests of listening, reading, speaking and writing is required.
www.elts.org

Test of English as a Foreign Language (TOEFL)
Internet-based test: overall minimum score of 90 with a minimum in writing of 24.

Paper-based test: overall minimum score of 577 with a minimum score of 5.0 in the Test of Written English.
www.ets.org/toefl

University English Entry Course (UEEC)
Intensive English language course conducted at UNSW Institute of Languages.

Minimum accepted score: C+ (grade point 7.0) with a minimum of 20 in the writing component. Some UNSW programs require a higher grade.
www. languages.unsw.edu.au/engforuniversity/ueec.html

Pearson Test of English - Academic
Overall minimum score of 68.

Other qualifications and other English tests
UNSW also accepts a number of academic qualifications and other English tests as meeting the English language requirements.

Information about these qualifications and the full English language requirement policy visit: www.unsw.edu.au/elp

English language pathways

STUDY ENGLISH WITH US TO MEET THE ENGLISH LANGUAGE ENTRY REQUIREMENTS REQUIRED TO START YOUR UNSW DEGREE!

When your first language is not English, studying a degree program in Australia can be challenging. UNSW Institute of Languages will give you the English language skills necessary for successful study. We offer a comprehensive range of English language programs which cover academic English, general English and professional English.

Why study with us?

- Our academic English programs lead to direct entry into all UNSW degrees.
- Our programs are developed and delivered by highly qualified and experienced teachers who are specialists in teaching English and will help you achieve the English skills needed for your academic and career success.
- In 2012, over 95% of students surveyed agreed that our teachers at the Institute were enthusiastic, helpful and interested in their learning.
- Our courses are delivered at two purpose-built locations and our first class facilities include classrooms equipped with state-of-the-art educational technologies, computer and language laboratories, and learning support resource centres.
- You will have full access to UNSW facilities including a world-class library, wireless internet and sporting facilities, and a healthcare centre.
- UNSW degrees can be packaged with an Institute of Languages program under a single visa covering the entire period of study.

Demand for the Institute's programs is high, and you should allow at least three months to apply before your intended start date for English language studies.

STUDY OPTIONS

Pre-Foundation Year English (PFY)

If you are planning to enrol in UNSW Foundation Studies prior to starting a Bachelor degree, this intensive English course offers you a direct pathway to meeting the English language entry requirements. You will not need to retake an IELTS or similar exam after successfully completing the PFY program.

University English Entry Course (UEEC)

If you don't meet the English entry requirements for UNSW this intensive English course may help you get into your Bachelor degree sooner. On successful completion of UEEC, you will be accepted into the relevant UNSW undergraduate without having to retake an IELTS or similar exam. Course material is based on UNSW resources and enhanced through the use of online learning and teaching activities.

Tertiary Orientation Program

If you meet the English language entry requirements for UNSW but need to gain confidence or shape your English skills for an academic environment you may want to take this intensive five-week course prior to starting your UNSW degree. It will also give you the chance to settle into Sydney, familiarise with the local accent and meet fellow students.

COURSE FEES AND TERM DATES

Course Fees	2013 (A$)
Enrolment fee	$250
Per term	$2,250

Term	2013 Dates	2014 Dates
Term 1	7 Jan – 8 Feb	6 Jan – 7 Feb
Term 2	11 Feb – 15 Mar	10 Feb – 14 Mar
Term 3	18 Mar – 19 Apr	17 Mar – 18 Apr
Term 4	22 Apr – 24 May	21 Apr – 23 May
Term 5	27 May – 28 Jun	26 May – 27 Jun
Term 6	1 Jul – 2 Aug	30 Jun – 1 Aug
Term 7	5 Aug – 6 Sept	4 Aug – 5 Sept
Term 8	9 Sept – 11 Oct	8 Sept –10 Oct
Term 9	14 Oct – 15 Nov	13 Oct – 14 Nov
Term 10	18 Nov – 20 Dec	17 Nov – 19 Dec

APPLICATION FORM

You can find an application form for the UNSW Institute of Languages on page 79 of this guide.

CONTACT DETAILS

223 Anzac Parade, Kensington Sydney NSW 2052, Australia
T: +61 2 9385 5396
F: +61 2 9662 2651
E: admissions@unswglobal.unsw.edu.au
W: www.languages.unsw.edu.au

Entry pathways with UNSW Foundation Studies

UNSW Foundation Studies was established in 1988 and is the longest running and leading provider of pre-university programs in Australia. It offers you high-level academic skills needed for a smooth transition into UNSW undergraduate studies.

Over 18,000 international students have graduated from UNSW Foundation Studies, with the majority going on to achieve excellent results in their degree studies. Our students move into successful careers in a wide range of fields in government, business and industry.

APPLICATION FORM

You can find an application form for the UNSW Foundation Studies on page 81 of this guide.

CONTACT DETAILS

223 Anzac Parade, Kensington Sydney NSW 2052, Australia
T: +61 2 9385 5396
F: +61 2 9662 2651
E: admissions@unswglobal.unsw.edu.au
W: www.ufs.unsw.edu.au

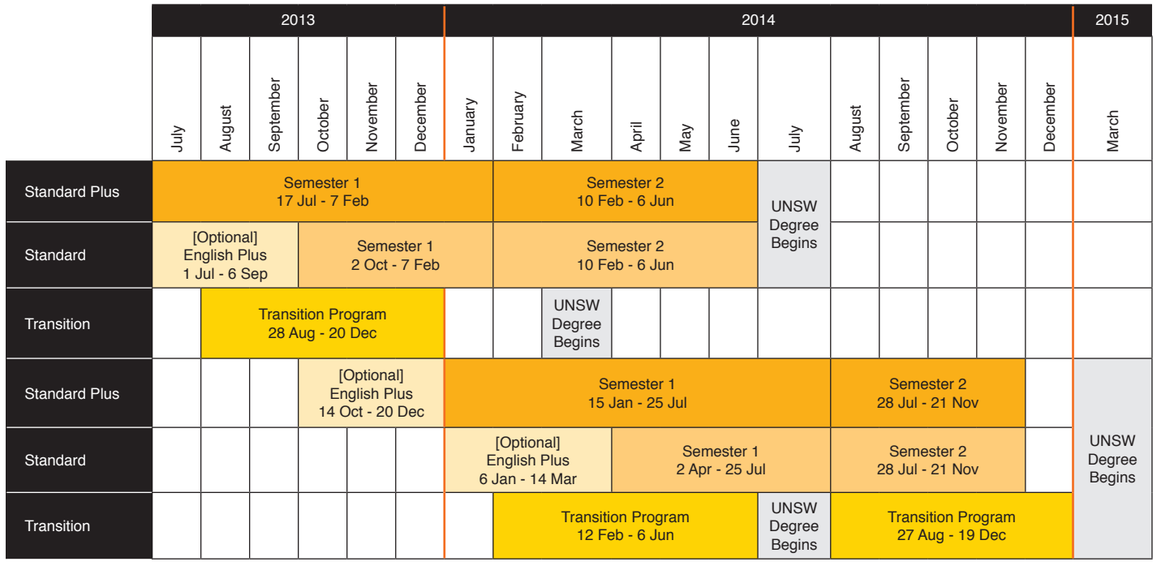
COMPLETE OUR FOUNDATION PROGRAM TO MEET THE ACADEMIC ENTRY REQUIREMENTS TO START YOUR DEGREE AT UNSW!

Why Study With Us?

- The prestigious UNSW Foundation Studies programs are accredited academic programs of UNSW.
- You will study on the UNSW Kensington campus and have full access to all facilities including a world-class library, wireless internet, sporting facilities and a healthcare centre.
- We have a proud record of success, with approximately 85% of our students gaining entry to university.
- As an international student, after meeting our specified entry requirements, you will have a guaranteed place in the relevant UNSW bachelor degree, although further conditions may apply some programs.
- Our lectures and tutorials are held in modern classrooms equipped with advanced teaching technologies.
- You will participate in class activities which help develop your presentation skills and give you greater confidence in speaking English.
- Our teaching style follows university practice with lectures and tutorials. Most tutorial classes have about 18 students, so each student receives individual attention.
- Extra one-on-one consultation sessions with teachers are offered outside class time to help you achieve your academic goals.
- Subjects in the curriculum are designed to prepare you for your chosen degree and are updated as new areas of study emerge.
- UNSW Pathway Packages are available providing a seamless study pathway between UNSW Institute of Languages (if additional English language training is required), UNSW Foundation Studies and UNSW Bachelor degrees – all on one visa.
- Accommodation is offered at our UNSW Foundation Studies Residential College, just a five-minute walk from campus.
- Our Student Services team provides advice and assistance on accommodation, welfare, under 18s care arrangements, airport pickup and also organises orientation and social activities throughout your stay.

Pathways to study at UNSW with UNSW Foundation Studies

Flexible programs allow you to start at UNSW at different times during the year and at different academic levels.



Transition Program
4 months

This intensive, one-semester program is recommended if you have very strong English language skills and have graduated from high school.

You will need a senior high school qualification such as A-Levels, International Baccalaureate Diploma, Gao Kao or HKDSE, plus IELTS of 6.0 or equivalent.

2014 program fee: A$16,850

Standard Foundation Program
9 months

This two semester program is recommended if you have strong English language skills and strong academic results.

You will have completed 11 or 12 years schooling plus IELTS of 5.5 (minimum 5.0 on individual scores) or equivalent. An offer can be made on the basis of your Year 11 or Year 12 Semester 1 results.

2014 program fee: A$25,850

Standard Plus Program
12 months

This extended, two semester program is recommended if you have good English language skills, good academic results but would like a steady pace of study.

You will have completed 11 years of schooling (primary and secondary) plus IELTS of 5.5 or equivalent. An offer can be made on the basis of your Year 11 or Year 12 Semester 1 results.

2014 program fee: A$29,950

English Plus Program
2 months

If you have just missed out on the English entry requirement for a Foundation Studies program, then you can enrol in a 10-week, pre-foundation English course followed by either the Standard or Standard Plus program.

You will need an IELTS of 5.0 or equivalent to apply for this packaged program.

For more details including fees contact: admissions@unswglobal.unsw.edu.au

Academic and English Language Entry Requirements to UNSW Foundation Studies*

	China	International Baccalaureate	British System	Hong Kong	Other Qualifications	English Language Requirement
Transition Program	**GaoKao** 70% of overall score 65% of overall score from some provinces	24 points over 6 subjects from IB 2 year diploma	**GCE A levels** 8 points: A=5, B=4, C=3, D=2, E=1	**HKDSE** 15 points over best 5 subjects from category A only	Contact UNSW Foundation or visit: www.ufs.unsw.edu.au/entry-requirements	**IELTS** 6.0 with consistent sub scores (or equivalent)
Standard Foundation	Senior 3 (year 12) 80% average Senior 2 (year 11) 90% average	Year 2 of the Diploma/Certificates with 12 points over 4 subjects	**IGCSE O levels** B grade average	**HKDSE** 11 points over best 5 subjects from Category A only		**IELTS** 5.5 with no band score less than 5.0 (or equivalent)

* If you are not eligible for the transition and standard programs (see above), you are welcome to apply for the standard plus program.

1.

Choose your program

Make sure it suits your interests, skills and career goals

2.

Check the program's entry requirements and content

The necessary information is in this guide, and also in the UNSW Online Handbook at www.handbook.unsw.edu.au

3.

Check your eligibility and apply online

To do this, visit www.apply.unsw.edu.au. You will need to forward the following documents:

- Certified copies of academic transcripts and testamurs (if not in English a translation must be provided)
- Certified copies of IELTS or TOEFL (or equivalent) test scores
- Details of work experience, if applicable

Some programs may require additional documentation.

4.

Track your application

Once you submit your application online, you will receive an application receipt. This will contain your student ID number. From now on, you can track your application at http://my.unsw.edu.au

5.

We will send your letter of offer

You and your UNSW representative will be advised of the outcome of your application via email

6.

Accept your offer

To do this, go to my.unsw.edu.au and follow the instructions in your offer letter.

Once we receive your acceptance, you will be sent your electronic confirmation of enrolment (eCoE).

7.

Enrol online

Once you have accepted your offer you must enrol online at http://my.unsw.edu.au to secure your place in your program of choice.

How to apply to UNSW

ONCE YOU HAVE DECIDED THAT STUDYING AT UNSW IS RIGHT FOR YOU, THE APPLICATION PROCESS IS SIMPLE. JUST FOLLOW THESE SIMPLE STEPS:

Important contacts at UNSW

Below are some important contacts for you. Just remember that whenever you contact us you need to quote your student number.

Admissions Office
E: admissions@unsw.edu.au
T: +61 2 9385 3656
F: +61 2 9385 9437

UNSW International
E: internationaloffice@unsw.edu.au
T: +61 2 9385 6996
F: +61 2 9385 9907

Try to Remember

Keep in mind that admission to UNSW is competitive. And because of this, an application does not guarantee admission.

Some programs will require you to submit additional documents. These might include a resume, evidence of your work experience, a statement of study, or portfolio. You can find this information in the entry requirements of your program.

Frequently asked questions

How do I know if I am an international student?
If you have Australian or New Zealand citizenship, or Australian permanent residency, you are a domestic applicant. Regardless of where you live, you cannot be considered as an international student.

What is the difference between domestic and international students?
International students do not fit the citizenship or residency categories above and may have a different application process and outcome.

If you gain Australian or New Zealand citizenship, or Australian permanent residency after applying but before you start your studies, you must inform the Admissions Office immediately. This could impact your offer, and require you to apply as a domestic applicant.

How do I apply if I am an international student studying an Australian Year 12, International Baccalaureate, or New Zealand NCEA qualification?
If you are currently sitting any of the above qualifications you must apply through the Universities Admissions Centre (UAC) and not directly to UNSW. For more information visit www.uac.edu.au

I'll be under 18 at the start of semester. Does this matter?
If you are under the age of 18, you must have your acceptance of offer counter-signed by your parent or legal guardian. You also need to be aware that additional visa requirements relating to accommodation and welfare arrangements must be met. See www.immi.gov.au/students/students/573-1/eligibility-student-18.htm

UNSW is happy to help you meet these requirements by ensuring appropriate accommodation, welfare and support arrangements have been made. Further details can be found at UNSW Student Development – International at www.internationalstudent.unsw.edu.au

How do I apply for a student visa?
This can be quite a lengthy and complex process, and you will be required to submit additional documentation to UNSW to satisfy visa requirements. Make sure you plan ahead so you have plenty of time to submit all your documentation.

The best source of information is the 'How to apply' section of the UNSW international website at www.international.unsw.edu.au
The Australian Government websites www.immi.gov.au and www.studyinaustralia.gov.au also provide up-to-date information about visa matters.

2014 Dates	Semester 1	Semester 2
Applications due	30 November 2013	30 May 2014
Orientation dates	24 Feb – 28 Feb	23 Jul – 25 Jul
Semester dates	3 Mar – 30 Jun	28 Jul – 25 Nov

Need help applying to UNSW? We have representatives all over the world

Find an official UNSW representative to help you apply to UNSW: www.international.unsw.edu.au/contact-us

Scan to find a representative near you

UNSW International Australia Office

Street Address
Ground Floor, East Wing, Red Centre
University of New South Wales
Sydney NSW 2052

Postal Address
UNSW International Office
University of New South Wales
Sydney NSW 2052

T: +61 2 9385 6996
F: +61 2 9385 9907
E: internationaloffice@unsw.edu.au
www.international.unsw.edu.au

UNSW Offices Outside Australia

Hong Kong Office
Unit 2006, 20th Floor., Kinwick Centre
32 Hollywood Road, Central
Hong Kong

T: +852 2869 0950
F: +852 2841 2800
E: info@unsw.com.hk

Vietnam Offices
Hanoi
Office 1, 5th Floor, HAREC Building
4A Lang Ha, Ba Dinh District, Hanoi

T: +84 4 377 27 337
F: +84 4 377 27 339
E: info.hn@unsw.edu.vn
www.unsw.edu.vn

Ho Chi Minh City
5th Floor, Lucky Star Building
102 Bis Le Lai District 1
Ho Chi Minh City

T: +84 8 3925 2679
F: +84 8 3925 6765
E: info.hcmc@unsw.edu.vn
www.unsw.edu.vn

UNSW International Representatives

Europe
T/F: +49 30 2904 5906
E: m.thiel@unsw.edu.au

India
E: a.mathews@unsw.edu.au

Indonesia
T/F: +62 21 8000 046
E: n.syarbini@unsw.edu.au

Malaysia
E: soonchoo.chua@unsw.edu.au

North America
T: +1 202 577 9216
E: a.waggener@unsw.edu.au

Tuition fees and other expenses

Undergraduate tuition fees

Faculty	A$/Unit of Credit (Projected)					
	2013	2014	2015	2016	2017	2018
Faculty of Arts and Social Sciences	550	585	620	655	695	735
Australian School of Business	695	735	780	825	875	930
Faculty of the Built Environment (all except B Architectural Studies)	610	645	685	725	770	815
Faculty of the Built Environment (B Architectural Studies)	650	690	730	775	820	870
COFA	540	570	605	640	680	720
Faculty of Engineering	705	745	790	835	885	940
Faculty of Law	675	715	760	805	855	905
Faculty of Medicine (BMed/MD)	1130	1200	1270	1345	1425	1510
Faculty of Medicine (Non BMed/MD)	730	775	820	870	920	975
Faculty of Science	715	760	805	855	905	960

Fees and cost calculation

as an example for: Bachelor of Arts (specialising in Philosophy and Psychology)

	2013			2014			2015			Total Tuition Fees
Courses	**A$/UOC**	**UOC**	**A$/FEE**	**A$/UOC**	**UOC**	**A$/FEE**	**A$/UOC**	**UOC**	**A$/FEE**	**A$**
Psychology	$715	12	$8,580	$760	18	$13,680	$805	24	$19,320	
History	$550	12	$6,600	-	-	-	$620	6	$3,720	
Philosophy	$550	12	$6,600	$585	18	$10,530	$620	12	$7,440	
Politics	$550	12	$6,600	$585	6	$3,510	-	-	-	
General Education (COFA)	-	-	-	$570	6	$3,420	$605	6	$3,630	
Totals	-	48	$28,380	-	48	$31,140	-	48	$34,110	$93,630

Other Study Costs (approximate)	$1000
Living Costs (including set up costs)	$22,000
OSHC (2013)	$498
Total Expected First Year Costs	**$51,878**

BECAUSE EACH STUDENT'S STUDY CHOICES ARE DIFFERENT, IT'S IMPOSSIBLE TO PROVIDE A DEFINITIVE COST OF STUDYING AT UNSW. BUT HERE ARE A FEW THINGS TO CONSIDER WHEN CALCULATING YOUR EXPECTED FEES.

Fees are course-based: Fees for international students at UNSW are set according to the course (subject) and not the program. The fees reflect the relative cost of delivering the course. So, for example, a science course is likely to cost more than an arts course. For that reason, your total tuition fees will vary depending on which courses you choose.

Fees vary each year: It is also important to appreciate that fees for courses fluctuate from year to year. The tuition fees listed above are for students commencing studies in 2013. The fees listed for 2014 to 2017 are indicative only; it is possible that these fees will change during the program. Actual fees for 2014 will be released next year and will be available at: https://my.unsw.edu.au/student/fees/TuitionFees.html

Fees are charged based on the year of commencement: For example, if you start in Semester 2 (July) 2013, the fees for the first semester will be calculated at 2013 rates. You second semester, starting in 2014, will be calculated at 2014 rates.

If you have an offer to study at UNSW but defer the start date into a new calendar year, your fees will be charged at the rate for the year you actually commence your studies.

If you are required to complete a course again, you will be charged at the rate applicable to the year you re-take that course.

Estimating your tuition fees: While it isn't possible to give a fixed annual fee for each program, it is possible to provide an estimate.

Estimates for each program are outlined in the Program Information section of each program, starting on page 26.

You can also calculate your own expected fees on the following page. Most programs will require 48 units of credit (UOC) per year. Most courses (subjects) are 6 UOC.

General education course fees are charged at the rate set by the relevant faculty. As an example, GENT0803 – Introduction to Australian Cinema will be calculated using the Faculty of Arts and Social Sciences rate.

For more information about the UNSW fees policy, including refund of fees and overpayments, visit: https://my.unsw.edu.au/student/fees/FeePolicyInternational.html

OTHER STUDY-RELATED COSTS

Some programs and courses have costs, which are additional to the tuition fees, for expenses like laboratory kits, equipment and field trips. We have estimated the likely costs to be incurred each year. Any compulsory costs have been calculated into the total program fee, listed in the Program Information section, starting on page 26. Where costs are significant, we have highlighted them.

Textbooks are not considered compulsory, but we recommend budgeting around A$1000 per year for books.

An estimate of your total costs (tuition and other study-related costs) will be shown on your Confirmation of Enrolment Form (CoE) that will be issued on acceptance of an offer of admission to UNSW.

Living costs

Obviously living costs vary depending on each student's specific requirements, but we estimate a single international student will need about A$20,000 a year to cover living expenses. This doesn't include the costs of large non-essential items like electrical equipment or a car.

In addition, you will need at least A$2,000 when you arrive in Sydney to cover initial expenses such as a rental bond payment (security deposit), electricity, gas and telephone connection fees and basic furniture and household items.

All estimates are subject to inflation and currency fluctuations. The current inflation rate in Australia is approximately 2.5 to 3.5% per year.

Overseas student health cover

If you are in Australia on a student visa, then you will need to pay for health insurance in Australia through the Overseas Student Health Cover (OSHC) scheme and maintain insurance for the full duration of your visa.

The only exception is for students from Belgium, Norway and Sweden who are covered by CSN or Kammarkollegiet. These students will, however, need to provide proof of official health insurance cover from their home government provider.

There are five registered providers of OSHC: Medibank (UNSW's preferred health cover provider), BUPA Australia Health, Worldcare, nib OSHC and Australian Health Management.

Medibank OSHC will pay benefits towards your medical and hospital treatment, medically necessary ambulance transport and most prescription medicines that you might receive while living in Australia. Just be aware that there may be some exclusions for pre-existing conditions and you may have to serve a waiting period to receive certain services.

Also, as with any health insurance, certain services are not covered by Medibank's policies. These include optical, physiotherapy, dental and certain pharmaceuticals. If you want to be covered for these expenses, you will need to obtain additional insurance.

Financial aid programs

www.international.unsw.ed.au/study/financial

We are authorised to help approved citizens of the United States and Canada extend their national student loans. If you are eligible for this support, the UNSW Financial Aid Office will be able to explain the application process to you.

The Office may also be able to assist other UNSW students with their applications for education-related private loans.

Our scholarships

WE OFFER A RANGE OF HIGHLY SOUGHT AFTER SCHOLARSHIPS FOR ELIGIBLE INTERNATIONAL STUDENTS. APART FROM REWARDING ACADEMIC EXCELLENCE, OUR SCHOLARSHIPS ALSO RECOGNISE AND ASSIST STUDENTS FOR A VARIETY OF OTHER REASONS.

If you are eligible for any of our available scholarships, we encourage you to take the time to apply. You are encouraged to apply for as many scholarships as you wish. To be considered for a scholarship, you must submit a separate application in addition to your enrolment at UNSW, and we also require you to have a satisfactory English language test result.

Our undergraduate scholarships for international students include:

Golden Jubilee Scholarships
UNSW has a close relationship with selected polytechnics in Singapore and Malaysia, and these scholarships recognise the most outstanding students from each of the participating institutions. Successful applicants will receive a full tuition scholarship for up to 96 units of credit (two years) to continue their studies at degree level at UNSW.

UNSW Hong Kong Alumni Award
Established to assist residents of Hong Kong who aspire to contribute to the betterment of society without particular regard for their own personal or commercial gain, this one year scholarship is valued at A$4,000.

Sports Scholarships
www.sportandrec.unsw.edu.au/sports/eliteathletesupport
UNSW also encourages talented athletes to apply for the UNSW Elite Athlete Support Program. It provides access to the very best facilities, coaching and assistance.

What other kinds of scholarships are available?
There are many scholarships available that are offered by organisations other than UNSW, including the Australian government. These are often only available to students from certain countries, and include:

Australian Government Scholarships	
Australian Development Scholarship	www.ausaid.gov.au/scholar
Australian Leadership Awards	www.ausaid.gov.au/scholar
Endeavour Awards	www.deewr.gov.au/International/Endeavour/Awards/Pages/Home.aspx

You can get further information about scholarships that allow you to study at institutions such as UNSW from your home government or university, or the Australian Diplomatic Mission in your country. Also take a look at the UNESCO publication Study Abroad, which might provide you with valuable study and scholarship information.

For more information about UNSW scholarships visit www.scholarships.unsw.edu.au

The quick way to apply online for UNSW scholarships

Go to:
www.scholarships.unsw.edu.au

Click on the information box titled 'International'
Once you press on the search button in the information box, a list of available scholarships will appear on the screen. Read the descriptions carefully to find out which are suited to you.

Register your details by clicking the register button

Confirm registration
To stop your registration expiring, you must confirm it within three hours.

Login, search for and complete your scholarship application
Please check the application requirements as some scholarships do not require you to register and apply.

Apply Online Data Entry Form

UNSW AUSTRALIA

This form is to record your details at a recruitment event. Once completed, this form should be submitted to your agent within two weeks of the event. This is NOT an application form. Please do not send this form to UNSW.
To apply, please go to www.apply.unsw.edu.au

1. Personal Details

If you have applied to UNSW before, what is your student ID:
First given name:
Second given name:
Family name:
Title: Date of birth (dd/mm/yy): Gender: ☐ M ☐ F
Country of residency: Country of citizenship:
Are you an Australian permanent resident? YES ☐ NO ☐ If yes, provide your visa number:
Email address (compulsory):
Home phone number:
Daytime phone number:
Mobile phone number:
Fax number:
Mailing address (This is the address the University will send all correspondence to):

Residential address (This is the address where you currently live. Please do not use a PO Box address):

OFFICE USE ONLY – Fee Waiver Code

UNSW ONLINE APPLICATION FEE (non-refundable)

AUD$50 unless a fee waiver code has been provided by a UNSW representative or staff member at a recruitment event.

To be eligible for the application fee waiver, you must attend a recruitment event and your documents must be certified (or for applicants studying in China, they must be notarised).

Paper applications can be downloaded online and incurs a non-refundable fee of AUD$250.

2. Visa Details

What visa type will you hold during your studies? (eg. student visa)	
If you require a student visa, in which country will you be applying for the visa?	
Which Australian Immigration Office will you be applying for the student visa? (eg. Australian Embassy Berlin)	
If you currently have a passport, what is the passport number?	
If you currently hold an Australian visa, what is the visa number (as it appears on your passport)? *This information is required if you intend to submit your application for a student visa to a DIAC (Immigration) office in Australia.	

3. Program Preferences – you may nominate up to three coursework program choices.

Preferred year of study: Preferred semester: Semester 1 (March) ☐ Semester 2 (July) ☐ Study mode: Full time ☐ Part time ☐

Preference	Program code* e.g. 8409	Program name: e.g. Master of Professional Accounting	Specialisation: e.g. Accounting
1st			
2nd			
3rd			

4. Funding (Sponsorships)

If your tuition fees will be paid directly to UNSW by one of the organisations that the University has established an official sponsorship agreement with, please provide the details below. If you are being sponsored, you must submit documentary proof of your sponsorship agreement to UNSW directly. Defence funding for UNSW Canberra@ADFA students does not need to be recorded below.

I will be sponsored: YES ☐ NO ☐

If yes, my sponsor details are: (organisation, country)

5. English Language Proficiency – Please refer to the University's policy on English language requirements.

English is my first language:	YES ☐ NO ☐
OR The sole language of instruction in my Degree or Diploma (within the last two years) was English: *You must have studied at tertiary level for a minimum of one year.	YES ☐ NO ☐
OR I have been or will have been a resident in one or more English speaking countries for a period of at least five years immediately prior to the commencement of my program at UNSW.	YES ☐ NO ☐
OR I hold a certificate of English proficiency from an approved test (e.g. IELTS or TOEFL) undertaken within the last two years.	YES ☐ NO ☐

This is NOT an application form. Please do NOT send this form to UNSW. To apply, please go to www.apply.unsw.edu.au

5. English Language Proficiency – Please refer to the University's policy on English language requirements.

If yes, Test name: Test score:	Test date: / / (dd/mm/yy)
OR I will be sitting a test: Test name:	Test date: / / (dd/mm/yy)

Notes:

1. You can apply without having satisfied the University's English language requirements, however, a confirmed offer will not be issued until the English language requirements have been met.

6. Admissions Qualifications – Please complete the relevant section

6.1 Application for undergraduate programs – If you are applying for postgraduate programs, you do not have to provide these details.

Country in which I attended high school:	
Name of qualification:	
Name of institution:	
Have you been awarded this qualification?	YES ☐ NO ☐
If yes, what was your score or grade?	
Date qualification was/will be awarded:	/ / (dd/mm/yy)

6.2 Application for postgraduate programs

Study level (e.g. undergraduate, postgraduate):	
Country:	
Name of institution:	
Qualification awarded:	
Have you completed this qualification?	YES ☐ NO ☐
If yes, what was your score, GPA or overall achievement?	
Dates of study:	From: / / To: / / (dd/mm/yy)
Date qualification was/will be awarded:	/ / (dd/mm/yy)
Honours category (if relevant):	
Are you seeking credit for any of the above tertiary study?	YES ☐ NO ☐

7. Other qualifications held – if not appropriate, do not complete this section

Please include details of other qualifications and/or memberships of professional bodies relevant to your application. e.g. Institute of Chartered Accountants (ICAA) or IEAUST or IPESMA	1.
	2.

8. Employment details: Complete this section if you are applying for a program that includes work experience as one of the criteria for admission, you should provide details of your current/most relevant employment here. Otherwise, leave this section blank.

Description of relevant position:

Division/Department (if applicable):

Company/Organisation:

Number of years of professional/management experience:

9. Declaration and signature

I declare that the information declared on this form is complete and correct. I authorise the University to obtain information from any educational institution previously or currently attended by me. If any information supplied by me is considered to be untrue, incomplete or misleading in any respect, I understand the University may take such action as it believes necessary including the disclosure of the information to any person or body the University considers has a legitimate interest in receiving it and I consent to such disclosure. I understand the University reserves the right to vary or reverse any decision made on the basis of untrue, incomplete or misleading information. I have made this application having had access to sufficient information regarding UNSW programs, courses, fees, costs, facilities and services. I understand the University reserves the right to make alterations to any matter offered in this publication without notice and that this agreement does not remove my right to take further action under the Australian consumer protection laws.

Name (Print): Date:

Signature:

This is NOT an application form. Please do NOT send this form to UNSW. To apply, please go to www.apply.unsw.edu.au

CRICOS PROVIDER CODE: NSW 00098G, ACT 00100G

UNSW Institute of Language Application Form

UNSW Global AUSTRALIA

1. Personal Details (as in passport)

Family Name: Given Name:

Other Names (i.e. your English name, if any):

Birthday (DD/MM/YEAR): / / Male ☐ Female ☐

Country of Birth: Nationality: Passport No.:

Please attach a copy of the first page of your passport which shows your photograph.

Will you be under 18 on arrival? Yes ☐ No ☐

*Please note: if you are under 18 years of age on commencement of study, certain visa regulations apply.

2. Citizenship

Are you a citizen or permanent/temporary resident of Australia? Yes ☐ No ☐

If you ticked a box with an asterisk (*), you will need Overseas Student Health Cover (OSHC). This can be arranged by UNSW Institute of Languages in section 8.

What type of visa will you be applying for? ☐ Student ☐ Student Dependant ☐ Tourist ☐ Working Holiday

3. Student Home/Postal Address (must be student's address, not agents address)

Address in Home Country (compulsory):

City: State: Postcode: Country:

Telephone: Fax: Email:

Student Address in Australia (if known)

Address in Australia:

City: State: Postcode: Country:

Telephone: Fax: Email:

4. English Programs

Academic English

☐ Introduction to Academic English (IAE) ☐ Academic English ☐ Tertiary Orientation Program (TOP)
☐ IELTS Test Preparation (ITP) ☐ Pre-Foundation Year English (PFY) ☐ University English Entry (UEEC)

General English (GE)

☐ General English (Beginner to Advanced) ☐ GE Cambridge Exam Preparation

Professional English

☐ English for Business Communication (int & adv) ☐ English for Law ☐ English for Medical Professionals

Term and start date?

How many weeks do you intend to study English? *Number of weeks (in 5 week blocks)*

Have you been granted a scholarship? Yes ☐ No ☐ Scholarship's Name or Sponsor's Name:

5. English Language Test Scores

If you have taken an IELTS or TOEFL or other test, please give details and attach a copy of the test result if available.
Test must have been taken within 12 months of the enrolment date.

IELTS	Score (Overall):	IELTS Writing	Score:
IELTS Test Report Form No.:		Cambridge	Score:
TOEFL/IBT/PBT	Score:	PTE	Score:

6. Do you have future study plans in Australia?

☐ No ☐ Yes, UNSW Foundation Studies ☐ Yes, UNSW ☐ Yes, other university

Level of course: ☐ Bachelors Degree (Undergraduate) ☐ Masters Degree (Postgraduate) ☐ PhD (Doctorate)

Name of course: Faculty:

Do you have a Letter of Offer? ☐ No ☐ Yes, Full offer ☐ Yes, Package offer ☐ Yes, Conditional offer

Commencement date: UNSW Student ID Number (if available)

7. Airport Pick-up AUD$150

Do you require airport pick-up? Yes ☐ No ☐ If yes, please complete the following:

Airport pick-up: $150. Please provide arrival details at least two weeks (14 days) prior to scheduled departure.

Arrival date: Arrival time: Airline/Flight number:

8. Overseas Students Health Cover (OSHC)

You must maintain OSHC for the proposed duration of your student visa. UNSW Institute of Languages can arrange visa-length cover with Medibank, our preferred provider of OSHC.

Yes, please arrange

☐ Single rate for myself OR ☐ Couple rate for myself and partner OR ☐ Family rate for myself and dependant/s

The length of OSHC will be calculated and advised, depending on your proposed enrolment period.
If you wish to combine your English course together with your UNSW academic program under one student visa and you would like us to arrange OSHC to cover the entire period of the visa, please provide a copy of your UNSW offer letter.

☐ No, I will make my own arrangements for the duration of my student visa

If you have a current OSCH, please quote your OSHC policy number: and expiry date:

9. Agent Information

Agent Name: Branch Name:

Contact Name: Email Address:

10. Additional Information

How did you hear about UNSW Institute of Languages?

Name of any relatives or friends who have completed a program here: Year:

11. Checklist

☐ Application Form filled out completely and correctly? ☐ Attached copies of all required documents?

☐ Listed your program preferences and commencement date? ☐ Copy of your UNSW offer letter (if applicable).

☐ Signed the declaration on this form? If under 18 years of age, your parent/legal guardian must also sign.

Declaration

I certify that the information on the form is correct and complete in every detail, and I understand that inaccuracies or omissions may result in non-acceptance or cancellation of enrolment at any time. I have read and understood the Conditions of Enrolment[1] and acknowledge that the personal information provided is covered under the Privacy Policy[2].

Signature of Student (as it appears in your passport) Date: / /

(Unsigned applications cannot be processed. Please sign your name on the signature box. A typed-in name cannot be accepted. Education Representatives cannot sign on behalf of the student.)

If applicant is under 18 years of age the signature of a Parent or Legal Guardian is required.

Signature of Parent or Legal Guardian Date: / /

Correspondence

Lodge the completed form with a UNSW Institute of Languages agent or representative in your country or post to:
UNSW Institute of Languages, PO Box 853, Kensington NSW 1465, Australia
T: 61 2 9385 5396 F: 61 2 9662 2651 E: admissions@unswglobal.unsw.edu.au
UNSW Global Pty Limited ABN 62 086 418 582 UNSW Global Pty Limited CRICOS Provider Code: 010200K

An online application form is available at https://www.languages.unsw.edu.au/forms/apply_EngLanguage.asp

UNSW Foundation Studies Application Form

UNSW Global AUSTRALIA

1. Personal Details (as in passport)

Family Name: Given Name:

Other Names (i.e. your English name, if any):

Birthday (DD/MM/YEAR): / / Male ☐ Female ☐

Country of Birth: Nationality: Passport No.:

Please attach a copy of the first page of your passport which shows your photograph.

Will you be under 18 on arrival? Yes ☐ No ☐

If you are under 18 years of age on commencement of study, certain visa regulations apply.

2. Citizenship

Are you a citizen of Australia Yes* ☐ No ☐ New Zealand Yes ☐ No ☐

Are you a temporary resident of Australia Yes* ☐ No ☐ New Zealand Yes ☐ No ☐

Are you a permanent resident of Australia Yes* ☐ No ☐ New Zealand Yes ☐ No ☐

*If you ticked Yes to any of the above questions, you will need the following:
• Attach evidence of Australian Citizenship/Permanent Residency status
• Attach the Australian Student Statement available at www.ufs.unsw.edu.au/documents/Australian_Student_Statement.pdf

Are you currently holding a valid Student Visa to study in Australia? Yes ☐ No ☐

If yes, please choose one of the following ☐ High School ☐ ELICOS ☐ Foundation ☐ Packaged Foundation and University

Student Visa Expiry Date (DD/MM/YEAR): / /

3. Home/Postal Address (must be student's address, not agents address)

Address in Home Country (compulsory):

City: State: Postcode: Country:

Telephone: Fax: Email:

Address in Australia (if known)

Address in Home Country (compulsory):

City: State: Postcode: Country:

Telephone: Fax: Email:

4. Preferred Commencement of UNSW Foundation Studies Program (list two programs in order of preference)

Preference ONE – Program: Preference TWO – Program:

Start date (DD/MM/YEAR): / / Start date (DD/MM/YEAR): / /

Program	English Plus with Standard	Standard Plus	Transition	Standard	English Plus with Standard Plus
Start Dates	6 January 2014	15 January 2014	12 February 2014	2 April 2014	21 April 2014
	30 June 2014	16 July 2014	27 August 2014	1 October 2014	13 October 2014
	5 January 2015	21 January 2015	11 February 2015	8 April 2015	20 April 2015

5. Preferred Stream

☐ Physical Science ☐ Life Science ☐ Commerce/Business ☐ Design/Fine Arts, Media and Building
☐ Arts, Social Sciences and International Studies

Please ensure your preferred stream is appropriate for your intended degree.

6. Intended Bachelor Degree

List programs in order of preference from the university programs.

University Program	Majors	Code
1.		
2.		

7. Previous Study

1. Name of Secondary School:	Country:
Level of Study:	Year Completed:
2. Name of Post-Secondary/Teritary Institution:	Country:
Level of Study:	Year Completed:

Note: Please attach original certified copies of your academic transcripts.

8. Overseas Student Health Cover (OSHC)

You must maintain OSHC for the proposed duration of your student visa. UNSW Foundation Studies can arrange visa-length cover with Medibank, our preferred provider of OSHC.

Yes, please arrange: ☐ Single rate OSHC for myself OR ☐ Couple rate for myself and partner OR
☐ Family rate OSHC for myself and my dependant/s

The length of OSHC will be calculated and advised, depending on your proposed enrolment period.

☐ No, I will make my own arrangements for the duration of my student visa

If you have a current OSHC, please quote your OSHC policy number: and expiry date: / /

9. English Language

If you have taken an IELTS or TOEFL or other test, please give details and **attach a copy** of the test result if available. Test must have been taken within 12 months of the enrolment date.

☐ I have the following test result:	IELTS Score:	Date:	Test report form no.:
	TOEFL Score:	TWE/Writing Score:	Date:
☐ I will be sitting for a test:	Test Name:	Date:	Test Centre:

Are you currently studying or do you intend studying an English Language Course before your Foundation Program? Yes ☐ No ☐

Have you previously studied in Australia? Yes ☐ No ☐

If you answered Yes to either question, please give details of these other programs below.

Start Date:	Finish Date:
Duration (English, high school etc.):	Type of Program:

10. Other Information

How did you hear about UNSW Foundation Studies?

Agency Name:	Branch Name:
Contact Name:	Email Address:

11. Checklist

- ☐ Application Form filled out completely and correctly?
- ☐ Signed and attached the Australian Student Statement available at www.ufs.unsw.edu.au/apply-now.html if applicable.
- ☐ Provided your program preferences and commencement date?
- ☐ Nominated your intended Bachelor Degree?
- ☐ Attached certified copies of all required documents? Please note that each page must be certified in accordance with our guidelines available at www.ufs.unsw.edu.au/apply-now.html
- ☐ Signed the declaration on this form? If under 18 years of age, your parent/legal guardian must also sign.

Declaration

I certify that the information on the form is correct and complete in every detail, and I understand that inaccuracies or omissions may result in non-acceptance or cancellation of enrolment at any time. I have read and understood the Conditions of Enrolment and acknowledge that the personal information provided is covered under the Privacy Policy.

Signature of Student (as it appears in your passport) Date: / /

(Unsigned applications cannot be processed. Please sign your name on the signature box. A typed-in name cannot be accepted. Education Representatives cannot sign on behalf of the student.)

If applicant is under 18 years of age the signature of a Parent or Legal Guardian is required.

Signature of Parent or Legal Guardian Date: / /

Correspondence

Lodge the completed form with a UNSW Foundation Studies representative in your country, or post to:
UNSW Foundation Studies, UNSW Sydney NSW 2052 Australia
T: +61 2 9385 5396
F: +61 2 9662 2651
E: admissions@unswglobal.unsw.edu.au
UNSW Global Pty Limited ABN 62 086 418 582 UNSW CRICOS Provider Code: 00098G

An online application form is available at: https://www.ufs.unsw.edu.au/forms/online-application-form.asp

OTHER UNSW CAMPUSES

COFA - Art Design Media
COFA is located at Paddington, only minutes from the UNSW main campus. COFA is located amongst Sydney's art galleries and the emerging IT and design hubs of Surry Hills and East Sydney. COFA has recently re-opened after extensive redevelopment and is now home to a world-class art and design gallery, new technologically advanced computer laboratories, and fine art and design studio spaces.

There is a free hourly shuttle bus between Kensington and Paddington campuses.

UNSW Canberra at ADFA
UNSW Canberra campus is located at the Australian Defence Force Academy in Canberra, Australia's capital city. The campus is located a few kilometres from Canberra's city centre and offers opportunities to international students for research study.

Canberra is a three-hour drive from Sydney

CRICOS Provider Code: NSW 00098G, ACT 00100G

Acknowledgements: Tri Tran, Lara Summers, Julie Constable
Design and Layout: Lara Summers, Julie Constable
Photography: John Dennis, Joy Lai, Maja Baska

All costs and fees are provided in Australian Dollars (A$). Any agreement with the University does not remove the right to take action under Australia's consumer protection laws.

COMPLIANCE: The Education Services for Overseas Students (ESOS) Act 2000 sets out the legal framework governing delivery of education to overseas students studying in Australia on a student visa. UNSW in providing education services to overseas students complies with the ESOS Framework and the National Code of Practice for Registration Authorities and Providers of Education and Training to Overseas Students 2007 (The National Code).

A description of the ESOS framework can be found at the following link: www.aei.gov.au/Regulatory-Information/Education-Services-for-Overseas-Students-ESOS-Legislative-Framework/National-Code/nationalcodepartd/Documents/ESOS_FrameWork_pdf.pdf