

## COMPLETE COURSE GUIDE

This section tells you about all the different study options at the University of Sydney. We stand out among Australia's leading universities in the breadth of subjects you can study. This isn't important because of sheer size. It's important because of the flexibility and wide experience you can gain.

When you join the University, you also join a faculty, which groups academics and students in specific study areas. If you choose to study a combined degree, you will have links to two faculties. Combined degrees allow you to specialise in different areas, but you'll often find that each gives you a new way of thinking, meaning you can push yourself even harder.

The first part of this section (pages 32 to 49) gives a quick overview of each of our 16 faculties, ordered alphabetically. Next you can find out what courses we offer in the tables (pages 51 to 63). Again, these are presented by faculty (note that the combined degree entries appear twice, once for each faculty that offers them).

The table on pages 30 to 31 gives you a guide to what ATAR you would have needed to enter a particular course in 2011.

## 2011 UNDERGRADUATE COURSES AND ENTRY GRADES

This page gives you an overview of what ATAR or International Baccalaureate (IB) you would have needed to successfully apply for your chosen course in 2011.

You should only use this information as a guide to what may be required for entry in future years. Achieving the 2011 entry standard will not guarantee admission in 2012. Don't forget we have a number of special entry pathways for students who may not quite achieve the grade for their preferred course. See page 66 for more information.

COURSE	ATAR	IB	DURATION
<b>Agriculture, Food and Natural Resources</b>			
Agricultural Economics	80.55	29	4 years
Environmental Systems	81.70	29	3 years
Resource Economics	86.20	31	4 years
Science in Agriculture	76.35	27	4 years
<b>Architecture, Design and Planning</b>			
Design in Architecture	96.95	38	3 years
Design Computing	87.60	32	3 years
<b>Arts and Social Sciences</b>			
Arts	84.00	30	3 years
Arts (Advanced) (Honours)	98.55	41	3 years
Arts (Languages)	98.55	41	4 years
Arts (Media & Communications)	98.50	41	4 years
Arts (Advanced) (Honours)/Medicine/Surgery*	see page 53		7 years
Arts/Social Work	84.35	31	5 years
Economics	94.15	36	3 years
Economics/Medicine/Surgery*	see page 53		7 years
International and Global Studies	95.05	36	3 years
Liberal Arts and Science	75.00	26	3 years
Political, Economic and Social Sciences	90.05	33	3 years
Socio-Legal Studies	84.25	30	3 years
<b>Business – The University of Sydney Business School</b>			
Commerce	95.50	37	3 years
Commerce (Liberal Studies)	98.00	40	4 years
Commerce/Arts	95.60	37	5 years
Commerce/Medicine/Surgery*	see page 54		7 years
Commerce/Science	95.55	37	5 years

COURSE	ATAR	IB	DURATION
<b>Dentistry</b>			
Oral Health*	see page 54		3 years
<b>Education and Social Work</b>			
Education (Early Childhood)	80.50	29	4 years
Education (Primary)	87.25	32	4 years
Education (Secondary: Human Movement & Health Education)	81.30	29	4 years
Education (Secondary: Humanities & Social Sciences)/Arts	84.15	30	5 years
Education (Secondary: Maths)/Science	87.10	32	5 years
Education (Secondary: Science)/Science	84.70	31	5 years
Social Work	81.35	29	4 years
<b>Engineering and Information Technologies</b>			
Flexible First Year (Engineering, Information Technologies, Computer Science)	89.05	32	4 years
Computer Science & Technology	85.25	31	3 years
Computer Science & Technology (Advanced)	92.70	35	3 years
Engineering (Aeronautical)	91.80	34	4 years
Engineering (Aeronautical – Space)	99.45	43	4 years
Engineering (Biomedical)	95.90	37	4 years
Engineering (Chemical – Biomolecular)	88.15	32	4 years
Engineering (Civil)	90.70	33	4 years
Engineering (Civil – Construction Management)	90.15	33	4 years
Engineering (Civil – Environmental)	96.25	37	4 years
Engineering (Civil – Geotechnical)	99.15	42	4 years
Engineering (Civil – Project Engineering & Management)	90.25	33	4 years
Engineering (Civil – Structural)	95.70	37	4 years
Engineering (Electrical) (Bioelectronics)	98.40	40	4 years
Engineering (Electrical) (Power)	95.80	37	4 years
Engineering (Electrical, Telecommunications, Computer)	87.15	32	4 years
Engineering (Mechanical)	90.05	33	4 years
Engineering (Mechanical – Space)	99.00	42	4 years
Engineering (Mechatronic)	92.20	34	4 years
Engineering (Mechatronic – Space)	99.45	43	4 years
Engineering (Software)	91.05	34	4 years

COURSE	ATAR	IB	DURATION
Information Technology	97.50	39	4 years
Information Technology/Arts	98.20	40	5 years
Information Technology/Commerce	95.70	37	5 years
Information Technology/Medical Science	93.80	35	5 years
Information Technology/Science	96.95	38	5 years
Engineering/Arts	91.05	34	5 years
Engineering/Commerce	95.60	37	5 years
Engineering/Medical Science	93.65	35	5 years
Engineering/Science	92.00	34	5 years
Engineering (Civil)/Design in Architecture	98.20	40	5 years
<b>Health Sciences</b>			
Exercise Physiology	New in 2012		4 years
Exercise & Sport Science	89.45	33	3 years
Exercise and Sport Science/ Master of Nutrition and Dietetics	97.10	38	5 years
Occupational Therapy	91.20	34	4 years
Physiotherapy	97.40	39	4 years
Speech Pathology	90.35	33	4 years
Diagnostic Radiography	92.80	35	3 years
Health Sciences	84.00	30	3 years
<b>Law – Sydney Law School</b>			
Combined law**	99.70	44	5 years
<b>Medicine – Sydney Medical School</b>			
Sydney Medical Program (graduate entry)***	see page 59		4 years
Combined medicine (undergraduate)*	see page 59		7 years
<b>Music – Sydney Conservatorium of Music</b>			
Diploma Music*	see page 59		2 years
Advanced Diploma Opera*	see page 59		3 years
Music (Composition)*	see page 59		4 years
Music (Music Education)*	see page 59		4 years
Music (Musicology)*	see page 59		4 years
Music (Performance)*	see page 60		4 years
Music (Performance – Jazz)*	see page 60		4 years
Music Studies*	see page 60		3 years
Music Studies/Arts*	see page 60		5 years
Music Studies/Medicine/Surgery*	see page 60		7 years

COURSE	ATAR	IB	DURATION
<b>Nursing – Sydney Nursing School</b>			
Arts/Master of Nursing	84.00	30	4 years
Health Sciences/Master of Nursing	84.00	30	4 years
Science/Master of Nursing	84.50	31	4 years
<b>Pharmacy</b>			
Pharmacy*	see page 61		4 years
<b>Science</b>			
Liberal Arts and Science	75.00	26	3 years
Medical Science (Yr 1 entry)	92.05	34	3 years
Psychology	97.25	39	4 years
Science	84.50	31	3 years
Science (Advanced)	95.00	36	3 years
Science (Advanced Mathematics)	98.15	40	3 years
Science/Arts	84.60	31	5 years
Science/Master of Nutrition and Dietetics	98.70	41	5 years
Science (Advanced)/Medicine/ Surgery or Medical Science/ Medicine/Surgery*	see page 62		7 years
<b>Veterinary Science</b>			
Veterinary Science*	see page 63		5 years
Animal & Veterinary Bioscience	84.10	30	4 years
<b>Visual Arts – Sydney College of the Arts</b>			
Visual Arts*	see page 63		3 years

2011 IB cut-offs are calculated using the 2011 conversion rate on the 2011 ATAR cut-offs.

\* Additional selection criteria apply. See page reference for details.

\*\* It is possible to combine undergraduate law studies with a degree from the faculties of Architecture, Design and Planning, Arts and Social Sciences, Engineering and Information Technologies, Science and the University of Sydney Business School.

\*\*\* A graduate-entry degree is one that requires an undergraduate degree as a prerequisite of entry.

## AGRICULTURE, FOOD & NATURAL RESOURCES



*Third-year agricultural science student Ash Zamek, who has travelled to Laos as part of her studies and hopes to work in international development.*

The environment, food, water and energy are critical to all our futures. We can equip you with the knowledge and skills to contribute to the sustainable development of our planet and protect the future of our world.

[sydney.edu.au/agriculture](http://sydney.edu.au/agriculture)

### COURSE LISTINGS

See page 51 for full listings

### CAMPUS

Camperdown/Darlington, Camden, Australian Technology Park

Because our teaching draws on cutting-edge research in areas such as food production, carbon cycling and environmental sustainability, you'll be surrounded by new ideas from day one.

You'll discuss those ideas with your teachers: experts who can help you to tackle the problems our rapidly changing world needs to address. Our staff include three of the Australian Research Council's 'Future Fellows', who are conducting research in areas of critical national importance.

Each of our degrees is unique and tailored to meet your needs and those of your potential employers. In some, you will learn how to apply scientific knowledge and principles to the management and conservation of the environment, sustainable agriculture, and natural resource management.

Meanwhile, our economics-focused programs will help you develop critical thinking and communication skills, with an emphasis on applying economics to energy, water, commodity markets and agricultural and natural resource issues.

We offer a unique program that allows you to develop your professional skills through work placements that count towards your degree. This means you can apply your knowledge to real-life situations and meet potential employers before you graduate.

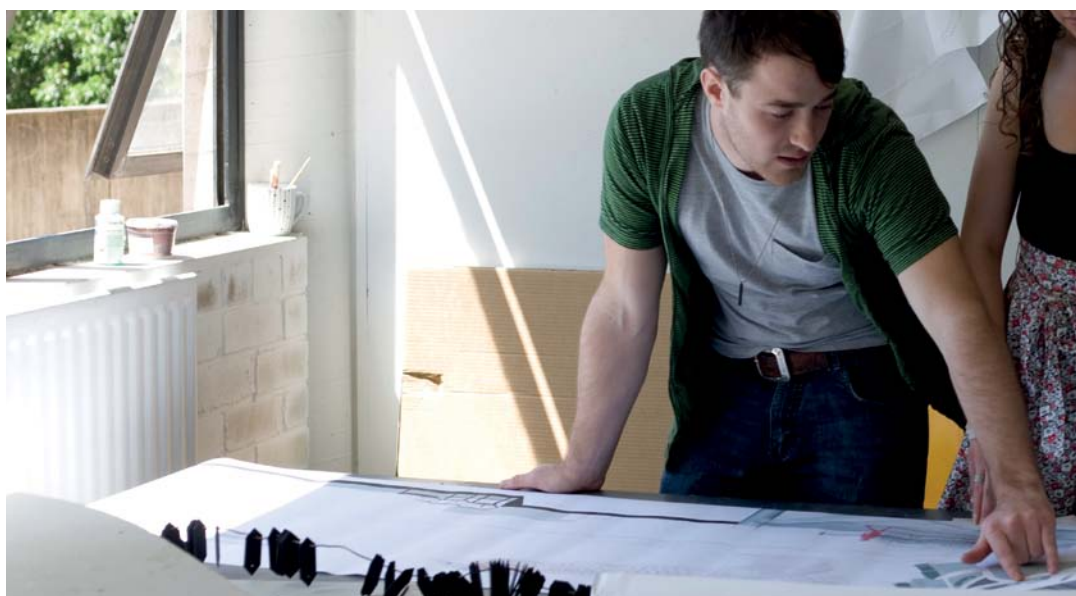
You'll also be able to complete a fourth-year research project (except in the Bachelor of Environmental Systems) – a great opportunity to refine your written and analytical skills.

### YOUR FUTURE

A Sydney degree in the agricultural and resource fields can lead to work in a wide range of public and private sector fields, such as commodity trading, international development, economic research, journalism, plant breeding, agronomy and carbon research.

Whichever you choose, you'll find that demand for our graduates outstrips supply. Our surveys show that graduates find employment quickly, with almost 80 percent in paid employment after three months and earning higher-than-average starting salaries.

## ARCHITECTURE, DESIGN & PLANNING



*Jonathon Donnelly in one of the studios in the Faculty of Architecture, Design and Planning. He is currently working during his practical year before returning for the master's section of the Architecture program.*

We have grand designs for your future. Our graduates have been changing the look of Australia and beyond for 90 years. By joining them, you could influence vital debates about the designed environments that surround us.

[sydney.edu.au/architecture](http://sydney.edu.au/architecture)

Our Faculty of Architecture, Design and Planning can help you develop the skills to design the built and virtual spaces where we will live, work and play in the future.

You'll work in our outstanding design studios and laboratories, supported by state-of-the-art computing facilities and taught by some of the world's leading researchers and practitioners.

We want you to look at our world differently, so we encourage a focus on design quality. In fact, our architecture program is the only one in Australia that includes mandatory art workshops, while our design computing courses offer you a unique blend of creative and technical studies.

Our rich student life encourages you to engage in additional creative pursuits such as music, drama and set design, and you can choose from an array of art and graphic design electives.

Together, our students and staff tackle challenges critical to all of our futures, through government-funded research in areas such as affordable housing,

sustainable urban design, interactive information design and community involvement in designing public works.

But we're not afraid to look to the past for solutions. For example, we're working out how new insights into the ancient Roman town of Herculaneum could help minimise the need for heating and cooling systems today.

### YOUR FUTURE

Our graduates make a difference across the world. Architecture graduates include Louise Cox, current president of the International Union of Architects; Andrew Andersons, who oversaw the design of the Beijing Olympics Water Cube swimming complex; and Paul Pholeros, HealthyHabitat founder and Indigenous housing pioneer.

Our design computing courses prepare you to enter a wide range of fields, including marketing communications, graphic design, app and game development, web design and development, interaction design, and information design and analysis – as well as fields that don't even exist yet!

### COURSE LISTINGS

See page 51 for full listings

### CAMPUS

Camperdown/Darlington

## ARTS & SOCIAL SCIENCES



Let your mind explore the humanities, social and political sciences, economics, media and communications, and languages and cultures with some of the best academics in the country. It's up to you to choose what your degree should look like.

[sydney.edu.au/arts](http://sydney.edu.au/arts)

### COURSE LISTINGS

See page 52–3 for full listings

### CAMPUS

Camperdown/Darlington

If you choose to study arts and social sciences at Sydney, you should expect a rigorous challenge that will inspire you to develop new ways of tackling problems – a challenge that will thrill you across our range of study options.

We are the only university in Australia to offer some courses, but whatever your route, your teachers will set you on a journey of discovery thanks to their extensive specialised insights.

We are always looking to further strengthen our excellent reputation for teaching and research: in 2011 we were renamed the Faculty of Arts and Social Sciences, welcoming the discipline of economics and positioning us to deliver new cross-disciplinary insights.

We are based in the historic Quadrangle, right at the heart of campus. This means if you choose to combine your degree with studies from other faculties – including our competitive law and medicine programs – you will find those faculties close by.

You can be sure of plenty of support (for example, our first-year mentoring


program will help you adjust to uni), and we can open up the world for you in many of our courses through opportunities to study at one of our 150 overseas exchange partners.

### YOUR FUTURE

When you leave us, your Sydney degree will immediately tell employers that you have excellent communication, research and analysis skills – highly sought-after in modern economic and social life.

We've helped sharpen the minds of some of Australia's most prominent thinkers, such as Germaine Greer, whose stimulating ideas still resonate today, John Bell, who has made Shakespeare relevant and exciting to contemporary audiences, and Arts/Law graduate James Wolfensohn, who became known as 'banker to the world' as president of the World Bank.

Today's students continue to look at the world differently. Liberal arts student Tom Champion is already in print with his children's book *Cindy-Ella*, dressing the fairytale in classic outback garb.



“It’s nice to go to uni and know that your ideas will be challenged and pushed, because it allows you to develop your understanding of a topic and reaffirm or reshape your existing beliefs.”

**JO SETO**  
COMBINED ARTS/LAW  
STUDENT

## BUSINESS



*Sandra Yousheyah's commerce degree has allowed her to meet the requirements for accreditation as a chartered accountant. Just as importantly, it has challenged her to apply material learned in lectures to real-life case studies, gaining insight into what professional work will involve.*

Our business programs are world-leading, as shown by a range of top-level professional accreditations. We will give you the opportunity to keep company with the best, and push you beyond conventional ideas to deliver new insights and have a real-world impact.

[sydney.edu.au/business](https://sydney.edu.au/business)

### COURSE LISTINGS

See page 54 for full listings

### CAMPUS

Camperdown/Darlington

The University of Sydney Business School's attainment of all available globally recognised accreditations from the peak European (EQUIS) and North American (AACSB International) bodies is unique among our Australian peers. We're also the only one admitted to CEMS – the Global Alliance in Management Education. This body admits just one business school in each country and partners with more than 50 of the world's top multinational corporations.

So you can be certain that our teaching staff and programs are of the highest quality. Our research is watched closely by industry and government due to its significant implications for business practice, public policy and regulation.

This research also informs our teaching programs, giving you instant access to new ideas and enabling you to develop your own insights into how commerce profoundly impacts our world.

If you come here, you will join a special group pursuing globally recognised qualifications, attracted by the

boundless opportunities for success and the chance to form lifelong friendships and networks that support your work.

Our programs give you a strong commercial grounding in business fundamentals. Their flexibility means you can specialise in the areas that interest you most, tailoring your degree to achieve your career aspirations and developing transferable skills that are highly valued by employers across many industries.

### YOUR FUTURE

Scrutinise the leadership of Australia's most successful organisations and businesses and you'll find our graduates in influential leadership positions.

But Sydney's business alumni also make a difference early in their careers, not just when they reach the pinnacle. For example one of our recent graduates, James Castrission, drew upon the entrepreneurial skills he developed here to form a partnership and kayak across the Tasman – a world first.

## DENTISTRY

*Deepa Thirukumar says the support network of staff and students has really helped her adapt to her studies.*



Our oral health course gives you excellent job prospects in the private and public sectors. To succeed, you'll need good communication skills, and a genuine interest in contributing to the health of our community.

[sydney.edu.au/dentistry](http://sydney.edu.au/dentistry)

### COURSE LISTINGS

See page 54 for full listings

Special application procedures apply. See page 67.

### CAMPUS

Surry Hills

Our innovative dentistry programs build on more than a century of excellence in dental education to produce dentists, oral health professionals, dental specialists and research degree candidates of the highest calibre.

The Faculty of Dentistry is dedicated to improving people's oral and general health. To support this goal, your studies will involve a blend of clinical, medical and dental science. We will challenge you to develop skills in critical analysis, teamwork and problem-solving. Our courses are academically rigorous – you need to pass all subjects to progress to the next year – but also stimulating, supportive and social.

Teaching is provided through two major teaching hospitals (the Sydney Dental Hospital and the Westmead Centre for Oral Health), as well as metropolitan and rural clinical settings, where you'll regularly put your skills into practice.

The three-year undergraduate Bachelor of Oral Health provides education in dental hygiene, dental therapy and oral

health promotion and education. The course sets the benchmark for oral health graduates: a growing number of services in the public sector and dentists in private practice require practitioners with the skills you will learn.

For people who have already completed an undergraduate degree, we also offer a four-year graduate-entry course, the Doctor of Dental Surgery, which blends learning in the life sciences with clinical and dental science and experience.

### YOUR FUTURE

Oral health students will graduate with a respected qualification that will equip you to work as an oral health therapist with skills in oral health promotion and education.

Depending on your passions and goals, your career may lead you into a mix of private or public sector practice. Either way, as a Sydney graduate, you will be prepared for a professional career of lifelong learning.

## EDUCATION & SOCIAL WORK



*Alex Wharton is studying for a combined degree in education and arts. He was inspired to become a teacher by the power of education to change the world.*

Shape society, change destinies and occasionally save lives. The University of Sydney's teachers and social workers are in a league of their own and a crucial part of our modern world.

[sydney.edu.au/education\\_social\\_work](http://sydney.edu.au/education_social_work)

Learn the art of teaching or social work with us and you will develop the skills and knowledge to make a real difference to other people – either by helping to develop young minds or by finding ways to improve the prospects of people disadvantaged in our society.

Our rigorous, innovative courses focus on providing professional experience, and use cutting-edge methodologies. Our researchers attract national and international praise for their leadership in teaching and scholarship.

Their work informs our own teaching, and we contribute to national debates and conduct research across areas ranging from early literacy to classroom discipline, sociology, sex and gender studies.

You will learn in an environment ranked A1 for teaching and learning by the federal Department of Education, Employment and Workplace Relations: ideal preparation for a career in teaching or social work.

You can get more out of your studies by choosing from a diverse range of

specialties. Our unparalleled number of combinations tailors your degree to achieving your goals.

Importantly, we recognise that we all learn from each other, so we have a first-year mentoring program that provides a really supportive learning environment.

### YOUR FUTURE

You will have a globally recognised degree. Our courses are accredited by the relevant bodies: the NSW Institute of Teachers and the Australian Association of Social Workers.

You can expect to earn around \$50,000 as a graduate teacher, which will increase as you gain experience.

Our social work graduates have real-world problem-solving and communication skills in key areas including health, ageing, child and family, drug and alcohol and women's services. You could even emulate Emily Moran, one of our recent social work graduates, who was named 2008 UK Social Worker of the Year.

#### COURSE LISTINGS

See page 55 for full listings

#### CAMPUS

Camperdown/Darlington

## ENGINEERING & INFORMATION TECHNOLOGIES

*Mink Son is studying for a combined degree in chemical engineering and commerce. She is particularly interested in how 'green engineering' can provide answers to many of the environmental problems we face.*



Engineer creative and practical solutions that champion positive change worldwide. As an engineering or IT graduate you will be in high demand, so join our team of independent thinkers who ask the difficult questions and deliver sustainable solutions.

[sydney.edu.au/engineering](http://sydney.edu.au/engineering)

### COURSE LISTINGS

See page 56–7 for full listings

### CAMPUS

Camperdown/Darlington

We can help you develop your skills of invention and analysis to design and build things that matter.

The 2010 *Times Higher Education* rankings placed us among the top 40 engineering and technology faculties in the world as we work to (among other things) develop a greener recycling system, create sustainable energy alternatives and craft cutting-edge effects for movies.

The diversity of our degrees ranges across steel structures, power engineering, robotics, sustainability, tissue engineering, high performance computing, medical imaging, energy technologies and more. Our new bioelectronics course combines the study of biology and electronics to meet the growing demand for engineers in the area of medicine.

If you are unsure how you would like to specialise, our flexible first year enables you to diversify and discover your strengths and interests before you decide where you would like to focus.

Alternatively, join the large percentage of students who combine their engineering or IT degree with studies in commerce, arts, science, medicine, architecture or law. A combined degree broadens your career choices. For example, you could work as an IT expert who also has legal expertise in areas such as software copyright, encryption and intellectual property, or as an engineer who has strong business skills.

### YOUR FUTURE

You will have excellent employment prospects as well as work-ready qualifications that are recognised worldwide. Our degrees are accredited by Engineers Australia (engineering degrees) and the Australian Computer Society (IT degrees).

Your degree will offer you versatility and diversity – one day you could be crunching data gathered from robot trials, or testing chemical sprays in a lab, and the next day putting your insights into practice in a paddock in rural NSW. Your options are endless.

## HEALTH SCIENCES



*Nick Bruce, studying for a Bachelor of Applied Science (Physiotherapy).*

Improving somebody else's life is an amazing achievement. A health sciences degree from Sydney will give you the skills to work in teams that help make our health care system tick. You're going to be in high demand.

[sydney.edu.au/health\\_sciences](https://sydney.edu.au/health_sciences)

### COURSE LISTINGS

See page 58 for full listings

### CAMPUSES

Cumberland

Camperdown/Darlington

Our Faculty of Health Sciences has a dedicated campus and strong relationships with some of Australia's best hospitals and treatment centres. This collaboration sharpens our focus on real-world learning, helped by purpose-built laboratories, on-site health clinics, an extensive library and a state-of-the-art sports centre.

You can choose between profession-specific study or a broad degree that allows you to tailor your course to your interests and professional aspirations. Either way, you can gain significant real-world practice, such as getting involved in international projects or schemes supporting Indigenous Australians.

You will be taught by the experts in our nine disciplines, comprising the largest health sciences faculty in Australia.

But it's not just about the numbers. All our students and staff are united by their desire to improve the health and quality of people's lives. We closely monitor trends and work hand-in-hand with the health profession to ensure our programs are flexible and relevant

to the changing nature of health care in Australia and internationally.

For example, one of our speech pathology experts developed a world-first treatment for stuttering in children, which is now used globally. Other researchers are leading the field in breast cancer research by identifying and attempting to alleviate the painful, long-term musculoskeletal problems experienced by many cancer survivors.

### YOUR FUTURE

The number of health industry professionals has increased by more than 40 percent in the past decade, and the sector is key to proactively tackling the rise in chronic health conditions.

Our professional preparation courses enable you to put your skills into practice immediately. Alternatively, our Bachelor of Health Sciences gives you the time to explore more widely, then, when you graduate, you can choose to take up a non-clinical role or apply for one of our 10 graduate-entry master's courses, which equip you to practise in your chosen field.

# LAW

*Students in the Law School's world-class moot court, which plays an important part in our teaching programs in litigation and dispute resolution.*



We prepare lawyers for the 21st century who relish working across national boundaries and different legal systems. We want people who are prepared to debate with the best. Are you ready for the challenge?

[sydney.edu.au/law](http://sydney.edu.au/law)

## COURSE LISTINGS

See page 58 for full listings

Special application procedures apply. See page 67.

## CAMPUS

Camperdown/Darlington

At Sydney, your teachers will include world-leading experts who actively engage in the legal and public policy debates that matter in today's world.

For example, one of our professors is shedding light on the complex emotions that surround parental separation, providing the legal system with vital analysis of the effects on adults and children. Other academics are helping developing countries overhaul their taxation systems, or analysing our preparedness for a flu pandemic.

Just as their work crosses academic disciplines, our combined law program allows you to study the Bachelor of Laws (LLB) in conjunction with a degree from several other faculties. (If you already have an undergraduate degree, you should consider our Juris Doctor graduate-entry degree: see our website for information.)

As you develop the critical legal skills of analysis, research, writing and advocacy, you'll interact with other members of the faculty in our state-of-the-art building, located in the heart of the main campus.

Beyond the campus walls, our recently launched social justice program gives you practical legal experience and provides vital services to disadvantaged members of our local community.

## YOUR FUTURE

Sydney Law School has made a significant contribution to the Australian judiciary, politics and public life.

Many of our graduates have become leaders in their fields, including prime ministers, global finance leaders and senior judicial figures. You will have the opportunity to follow their lead.

A Sydney law degree is recognised for the purposes of practising law in New South Wales. Subject to meeting additional requirements, it may be recognised in other Australian states and territories and overseas.

However, more than half of our graduates do not practise as barristers or solicitors, but are working as corporate counsel, public policy advisers, teachers, investment bankers, journalists ... studying law at Sydney opens you up to the world.

## MEDICINE



Study medicine at Sydney and make a difference across the world. We are one of the most highly rated medical schools in the Asia-Pacific region: our clinically outstanding and research-rich courses will place you among the best.

[sydney.edu.au/medicine](http://sydney.edu.au/medicine)

### COURSE LISTINGS

See page 59 for full listings.

Special application procedures apply. See page 67.

### CAMPUS

Camperdown/Darlington

When you come to Sydney Medical School you will be exposed to clinical teaching and research across a wide spectrum that few other medical schools can offer, from high-level hospital care to rural and remote community care.

The Sydney Medical Program provides a unique learning environment. We use real-life problems so you develop your skills as productively as possible. Access to the latest information technology gives you superb technical support, but face-to-face contact is equally important.

You'll apply your skills in a real-life setting from your first weeks by interacting with patients in our clinical schools, which are located in some of the top hospitals in Australia.

With your teachers also being top researchers and clinicians, you'll be able to use their guidance to design and conduct your own research in areas affecting millions of lives, such as cancer, obesity, heart disease, infectious diseases and mental illness.

We have a strong focus on Indigenous health, and, as an internationally focused medical school, also give you the opportunity to experience health care outside Australia.

We also encourage diversity among our student body. Students from Australian Indigenous communities and rural areas are particularly welcome.

### YOUR FUTURE

You will develop the key skills you'll need as a medical or health care professional of the future: communication, teamwork, compassion and a thirst for the latest knowledge.

You'll be well placed to follow in the steps of your predecessors who have made major breakthroughs that have changed medical practice and understanding. Today's graduates play leading roles in all health fields worldwide.

## MUSIC



*Pianist Daniel May at the Sydney Conservatorium of Music.*

The Sydney Conservatorium of Music is unique: your classmates are amazing musicians and your mentors are skilled professionals. Together your virtuosity and imagination can define the future of music.

[sydney.edu.au/music](http://sydney.edu.au/music)

### COURSE LISTINGS

See page 59–60 for full listings.

Special application procedures apply. See page 67.

### CAMPUS

Macquarie Street

'The Con' is a hub for artists, scholars and the public – a magical and inspired place where the uniquely talented professional musicians of tomorrow develop their skills to the highest level in a fertile academic and performance environment.

You can pursue the career you want with our flexible music programs, which allow you to specialise in the areas you're most interested in, including composition, performance (for example, vocal studies and jazz), musicology or music education.

Because practice makes perfect, you can apply your skills by participating in a diverse ensemble program, covering jazz, opera and choral music, chamber and symphony orchestras, as well as contemporary and early music groups.

Of course, you'd expect to find all of this at one of the world's leading music schools. However, none can match our superb location and facilities in the Francis Greenway-designed heritage building in the Royal Botanic Gardens, right near the Sydney Opera House.

You will study and perform in a wonderful building that houses a world-class 500-capacity concert hall (one of five performance venues) and more than 130 teaching and practice studios spanning almost 30,000 square metres.

You'll also have access to our extensive music library, and cutting-edge music technology and recording resources.

We place a strong emphasis on partnerships with major Australian music organisations, such as Opera Australia and the Sydney Symphony Orchestra, giving selected students the chance to work and perform with professional artists. This allows you to benefit from their extensive knowledge and develop important key contacts for your future career.

### YOUR FUTURE

Clearly, you'll be well equipped for a career as a professional musician, but our graduates also enter related careers such as arts management, cultural planning and policy development, broadcasting and music education.

## NURSING



*Lauren Whalan believes her combined health sciences/ nursing degree will give her more career opportunities and the extra edge when applying for jobs. She's interested in working in paediatric nursing because it combines her two great passions – children and health care.*

The world is opening up to different possibilities in health care. Our combined nursing degrees equip you with the practical experience and academic knowledge to lead the future of nursing.

[sydney.edu.au/nursing](http://sydney.edu.au/nursing)

Sydney Nursing School provides unique programs that will prepare you for leadership in clinical practice and research. We are a small faculty, so you'll discover a collegial, stimulating and supportive place for students.

You'll gain extensive clinical experience through placements in a range of health settings and use specialised equipment such as computerised manikins at our dedicated campus, just a short walk from the University's main campus.

Our strong ties with the University's other health faculties mean you'll have access to world-leading clinical schools, and will work with other health students and professionals in city teaching hospitals and rural and remote facilities.

As well as gaining practical experience, you'll debate and consider how the nursing profession can improve people's health and health care systems.

Our combined degree program allows you to broaden your knowledge and skills with a degree from the faculties of Arts and Social Sciences, Health Sciences or Science.

You'll also be able to develop interests in specialist areas of nursing practice, tapping our growing research capability, which is particularly strong in chronic disease, maternal and women's health, cancer and palliative care, mental health, and intensive care, trauma and emergency.

Your teachers will include nationally and internationally renowned academics and clinical experts, some of whom have received national awards for the quality of their teaching.

### YOUR FUTURE

Our programs are accredited by the Nursing and Midwifery Board of Australia. Most of our graduates go on to work in public hospitals, in practice areas such as trauma and emergency, acute care, cancer, intensive care, mental health nursing and aged care.

Our combined degree programs create professional opportunities in nursing and beyond, including media, pharmaceuticals, forensic science, overseas aid and policymaking.

#### COURSE LISTINGS

See page 60 for full listings

#### CAMPUS

Mallett Street

## PHARMACY

*Ardi Mirzaei, who represented his year on the Sydney University Pharmacy Association – allowing him to network with University alumni and learn about their experiences as practising pharmacists.*



Develop insights into how different medications affect the human body, and qualify with the ability to gain entry to a profession that focuses on improving patients' quality of life.

[sydney.edu.au/pharmacy](http://sydney.edu.au/pharmacy)

### COURSE LISTINGS

See page 61 for full listings.

Special application procedures apply. See page 67.

### CAMPUS

Camperdown/Darlington

Our Faculty of Pharmacy is recognised as a leading teaching centre, with an outstanding reputation for research and innovation in Australia and overseas.

Our world-renowned academics lead their field, pursuing projects in areas such as cancer research, asthma, diabetes and drug design and discovery. You will work alongside them and gain your own research experience through the honours study options we offer.

Your teachers will steer you through the chemical, physical, pharmaceutical and pharmacological properties of medicinal substances. The practical experience you will gain in a variety of clinical settings, including industry, rural and overseas opportunities, will help you put your knowledge into action and develop important interpersonal skills.

You'll work with your fellow students to determine how best to treat patients, drawing on the latest knowledge and making the most of clinical placements.

Our program will also equip you to open your own pharmacy through a business skills course, the only one of


its kind in Australia. The course has led to past graduates winning national business awards.

### YOUR FUTURE

Sydney graduates go on to great things: one of our recent graduates was named Young Pharmacist of the Year by the Pharmaceutical Society of Australia just three years after completing her degree. She's now back with us, completing her PhD in mental health, one of our key research themes.

We aim to provide you with a degree, that will place you in high demand among employers, as well as an intellectually, socially and culturally rewarding education that will set you on the right path to becoming a leader in your profession.

Whether you decide to register as a pharmacist in community or hospital pharmacy, enter the pharmaceutical industry, work for government agencies or contribute to research and academia, you will have the ability and expertise to help improve the wellbeing of the nation.



“The fantastic thing about studying at the University of Sydney is that your lecturers are the people you read about in academic journals and textbooks. It’s pretty exciting when you’re writing an essay or a report and you see your lecturer’s name is in the reference list.”

**TOM SIMPSON**  
COMBINED COMMERCE/  
SCIENCE STUDENT

## SCIENCE



Science applies to so much of our lives: preventing and curing diseases, conserving existing energy resources and developing new ones, and understanding our behaviour. You'll be able to make exciting discoveries that bring the impossible within reach.

[sydney.edu.au/science](http://sydney.edu.au/science)

### COURSE LISTINGS

See page 61–2 for full listings

### CAMPUS

Camperdown/Darlington

A Sydney science degree will teach you how to apply existing knowledge and critical reasoning to improve our world. You will use the latest equipment and facilities (many of which are the best in the southern hemisphere).

The teachers in the Faculty of Science include world-class academics who are pushing the frontiers of science.

Some are at the forefront of research that may help prevent the chronic conditions of diabetes and obesity from affecting millions of people. Others are keeping Australia at the cutting edge of communications through photonics research, while our physics stars are helping us to understand the evolution of the universe.

This breadth of expertise is reflected in our flexibility of study options. You can choose from a generalist degree such as the Bachelor of Science, offering almost 30 possible majors, or a more specialised degree that is tailored to a more specific interest or career path.

Of course you can also combine your degree with studies from another faculty, or complete your subjects at challenging advanced levels. Top students may be invited to join our individually tailored Talented Student Program, giving you the chance to work alongside practising scientists on real cutting-edge projects.

We'll give you the chance to excel, as did the winner of the 2010 NSW Rhodes Scholarship, David Llewellyn, who is fuelled by a determination to develop a vaccine for malaria.

### YOUR FUTURE

Employers worldwide value our science graduates for their teamwork, problem-solving abilities and quality of thought.

While your skills and knowledge will prepare you for specialised scientific work or research, you will also be able to apply them in a wide range of other fields, including government, finance, management and journalism.

## VETERINARY SCIENCE



*Third-year veterinary science student Todd Dewberry is also president of the student-run Veterinary Society.*

By studying veterinary science or animal bioscience at Sydney, you will receive expert training and a pathway to a rewarding career – managing the care and welfare of animals.

[sydney.edu.au/vetscience](http://sydney.edu.au/vetscience)

### COURSE LISTINGS

See page 63 for full listings

Special application procedures apply. See page 67.

### CAMPUS

Camperdown/Darlington  
Camden

Our Faculty of Veterinary Science is recognised internationally as a leading provider of education in areas ranging from animal reproduction to parasitology. Our award-winning academics are researching problems unique to Australian wildlife, for example through their involvement with the Australasian Wildlife Genomics Group, which is investigating the tamar wallaby and platypus genome.

Their research directly informs our innovative teaching programs, and you will benefit from our cutting-edge main campus facilities, as well as a teaching hospital and rural facilities at Camden on Sydney's outskirts.

As a vet student, you will study farm animals, companion animals, racing animals and exotic and native species. You'll face new challenges daily – from practical classes and lectures to putting animal husbandry theory into practice during external work placements.

In the last year of your degree you'll take on clinical rotations, consolidating what you've learned and sharpening your skills for unsupervised cases.

If you choose to study animal bioscience, you will build on a strong science foundation to focus on animal nutrition, health, reproduction and genetics and complete a large amount of practical work in animal-related industries. In your last year you'll do a research project, specialising in new and emerging areas such as assisted reproductive technology or the genetic basis of disease.

### YOUR FUTURE

Our veterinary science graduates are eligible for registration with the relevant veterinary board in each state and territory. The course is also recognised internationally by the Royal College of Veterinary Surgeons (UK) and is accredited by the American Veterinary Medical Association (AVMA).

The Bachelor of Animal and Veterinary Bioscience provides an excellent path to careers in the animal industries, agribusiness, government, research and education. Our animal bioscience graduates work across a broad range of disciplines in cities, rural areas and overseas.

## VISUAL ARTS

Sydney College of the Arts student Renee Giannopoulos, studying for a Bachelor of Visual Arts in ceramics.



Want a clear picture of where you're going? Study with us and you'll immerse yourself in a student-centred environment where our entire focus is on revealing your full potential as a visual artist.

[sydney.edu.au/sca](http://sydney.edu.au/sca)

### COURSE LISTINGS

See page 63 for full listings.

Special application procedures apply. See page 67.

### CAMPUS

Rozelle

Sydney College of the Arts (SCA) has a prestigious history of educating many of Australia's most successful contemporary visual artists, helping them to realise their aspirations and develop their communication, intellectual and cultural skills.

We'll prepare you for future success, whether you decide to follow a path in visual arts or to apply the skills and knowledge you have gained in other professional areas.

To join us, you'll need to be committed and demonstrate your cultural awareness and vocational interest – but rest assured that you'll be well supported. Our excellent reputation derives from high-quality teaching over more than 30 years and a track record of consistent achievement for our students and graduates.

We also boast an impressive list of movers and shakers in the art world as graduates and staff, including artist Shaun Gladwell, photographer Rosemary Laing, photomedia artist Anne Zahalka, filmmaker Jane Campion and designer Marc Newson.

You'll benefit from our top-class studio facilities that overlook Sydney harbour at Iron Cove, supported by a comprehensive digital infrastructure. SCA is housed in the historic Kirkbride buildings in Rozelle, a Victorian neo-classical complex with well-lit and airy buildings opening onto verandas that link our numerous courtyards.

Your practical studio work will be supported by programs covering theory and art history. We regularly host contemporary art exhibitions, and also welcome visiting professional artists and researchers who will offer you personal insights and advice.

### YOUR FUTURE

Our flexible course structure allows you to always keep your career choices open. We'll provide you with the conceptual and technical skills to work as a contemporary artist or to establish an art, media or design practice.

You'll also be well qualified to work in a wide range of other culture-related fields, including art education and administration, curation, website and interactive design and publishing.



ECONOMICS AND BUSINESS

FOR MORE INFO

FOR MORE INFO

Man sitting at a red table reading a book.

Woman sitting at a red table reading a book.

Man sitting at a red table reading a book.

Woman sitting at a red table reading a book.

Man sitting at a red table reading a book.

Group of people standing and talking near the exhibition booths.

Man standing near the entrance.

## COMPLETE COURSE LIST

These tables list all the courses you can study at the University of Sydney, including the ATAR you would have needed to successfully apply in 2011. (You should only use this information as a guide to what may be required for entry in future years: each year's cutoff depends on demand for the course during that year's intake.)

The courses are listed under the faculties that offer them. The combined degree entries appear twice, once for each faculty that offers them.

If you have any questions, call our helpline on **1300 362 006** or email **future.students@sydney.edu.au**.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>AGRICULTURE, FOOD AND NATURAL RESOURCES (see page 32 for an overview of this area of study)</b>				
Bachelor of Agricultural Economics	4	Accounting (subject to ATAR), agribusiness, agricultural economics, agricultural finance, agricultural marketing, agricultural science, commercial law, econometrics, economics, finance, geography, government and international relations, management, marketing, psychology	Mathematics	80.55
Bachelor of Environmental Systems	3	Agricultural systems, including: agronomy, soil science, agro-forestry, hydrology, plant pathology, plant science, spatial information systems, biosphere-atmosphere interactions. Natural terrestrial systems, including: biogeochemistry, environmetrics, geomorphology, fluvial systems, ecology	Mathematics and Chemistry	81.70
Bachelor of Resource Economics	4	Agricultural science, commercial law, economics, finance, geography, mathematics, resource economics, statistics. Science majors include biology, chemistry, geology, marine science, soil science	HSC Mathematics Extension 1 Recommended studies: Biology or Chemistry or Earth and Environmental Science	86.20
Bachelor of Science in Agriculture	4	Agricultural chemistry, agricultural economics, agricultural genetics, agronomy, entomology, environmetrics, farming systems, food science, horticulture, livestock production, plant pathology, soil science	Mathematics and Chemistry	76.35

<b>ARCHITECTURE, DESIGN AND URBAN PLANNING (see page 33 for an overview of this area of study)</b>				
Bachelor of Design Computing	3	Design, human-computer interaction, modelling and programming	Mathematics	87.60
Bachelor of Design in Architecture/ Bachelor of Laws	5	See Bachelor of Design in Architecture (below) and Bachelor of Laws (combined) (page 58)	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Design in Architecture/ Master of Architecture (separate application required for master's course)	3+2	Architectural design, architectural technologies, architectural history and theory, art workshops, communications, environment, environment and sustainability, management in architecture. Elective streams in allied arts in architecture, digital architecture and urban design and planning, or electives from any faculty in the University	Mathematics and English Advanced	96.95
Bachelor of Engineering (Civil)/ Bachelor of Design in Architecture	5	A structured degree combining engineering and design architecture	HSC Mathematics Extension 1, Physics and/or Chemistry	98.20

Left: Potential students in the University's Great Hall at one of our open days. Why not come along on Saturday 27 August 2011 to find out more about study and life at Sydney. For more information, visit [sydney.edu.au/future\\_students](http://sydney.edu.au/future_students)

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>ARTS AND SOCIAL SCIENCES (see page 34 for an overview of this area of study)</b>				
Bachelor of Arts	3	<p><b>Table A:</b> At least one of the following majors must be completed: American studies, ancient history, anthropology, Arab world, Islam and the Middle East, Arabic language and literature, archaeology, art history, Asian studies, Australian literature, biblical studies, Celtic studies, Chinese studies, classical studies, cultural studies, digital cultures, economics, English, European studies, film studies, French studies, gender studies, Germanic studies, government and international relations, Greek (ancient), Hebrew (classical and modern), heritage studies, history, Indigenous Australian studies, Indonesian studies, international and comparative literary studies, Italian studies, Japanese studies, Jewish civilisation, thought and culture, Korean studies, Latin, linguistics, medieval studies, modern Greek, music performance studies, philosophy, political economy, Sanskrit, social policy, sociology, Spanish and Latin American studies, studies in religion.</p> <p><b>Table B:</b> Provided a major is completed in at least one of the subject areas listed in Table A, units of study (sufficient to complete a major, but no more than one major) may also be chosen from biology, biochemistry, bioinformatics, chemistry, computer science, education, environmental studies, geography, geology and geophysics, history and philosophy of science, industrial relations and human resource management, information systems, management, mathematics, microbiology, physics, plant science, psychology, statistics</p>	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area; however, all subject areas, including languages, may be taken by complete beginners)	84.00
Bachelor of Arts (Advanced) (Honours)	3	This is an accelerated program for talented students. It includes an honours year in third year.	As for Bachelor of Arts	98.55
Bachelor of Arts (Languages)	4	Two majors from Table A (see Bachelor of Arts, above) with at least one major from the following subject areas: Arabic language and literature, Chinese studies, French studies, Germanic studies, Hebrew (modern), Indonesian studies, Italian studies, Japanese studies, Korean studies, modern Greek studies, Spanish and Latin American studies	As for Bachelor of Arts It is strongly recommended that students have some prior experience of language learning	98.55
Bachelor of Arts (Media and Communications)	4	All students complete a core program of study in media and communications and a major from Table A (see Bachelor of Arts, above). It is possible to take a second major from Table A or B, or a marketing major from the Business School. A compulsory internship is undertaken in fourth year.	As for Bachelor of Arts	98.50
Bachelor of Commerce/ Bachelor of Arts	5	See Bachelor of Arts (above) and Bachelor of Commerce (page 54).	As for Bachelor of Arts and Bachelor of Commerce	95.60
Bachelor of Education (Secondary: Humanities and Social Sciences)/ Bachelor of Arts	5	See Bachelor of Education (Secondary) Humanities and Social Sciences/Bachelor of Arts (page 55).	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area)	84.15
Bachelor of Engineering/ Bachelor of Arts	5	See Bachelor of Arts (above) and Bachelor of Engineering (pages 56–7).	Mathematics Extension 1, Physics and/or Chemistry (other assumed knowledge depends on subjects chosen)	91.05
Bachelor of Information Technology/ Bachelor of Arts	5	See Bachelor of Arts (above) and Bachelor of Information Technology (page 57).	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	98.20
Bachelor of Arts/Bachelor of Laws	5	See Bachelor of Arts (above) and Bachelor of Laws (combined) (page 58).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Music Studies/ Bachelor of Arts	5	See Bachelor of Arts (above) and Bachelor of Music Studies (page 60).	Music 2 (other assumed knowledge depends on subjects chosen)	A+C

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
Bachelor of Arts/Master of Nursing	4	See Bachelor of Arts/Master of Nursing (page 60). All students must study human biology in their first year.	As for Bachelor of Arts	84.00
Bachelor of Science/ Bachelor of Arts*	4	See Bachelor of Arts (above) and Bachelor of Science (page 61).	Mathematics (other assumed knowledge depends on subjects chosen)	84.60
Bachelor of Arts/Bachelor of Social Work	5	See Bachelor of Arts (page 52) and Bachelor of Social Work (page 55).	As for Bachelor of Arts and Bachelor of Social Work	84.35
Bachelor of Arts (Media and Communications)/Bachelor of Laws	6	See Bachelor of Arts (Media and Communications) (above) and Bachelor of Laws (combined) (page 58).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Arts (Advanced) (Honours)/Bachelor of Medicine/ Bachelor of Surgery	7	See Bachelor of Arts (Advanced) (Honours) (page 52) and Bachelor of Medicine/Bachelor of Surgery (page 59). All students must take some study in physics, biology and chemistry. For more information, see <a href="http://sydney.edu.au/arts/future_students/courses/combined/arts_medicine_surgery.shtml">sydney.edu.au/arts/future_students/courses/combined/arts_medicine_surgery.shtml</a>	As for Bachelor of Arts	A+C
Bachelor of Economics	3	All students complete one core major from economics, econometrics or financial economics. A second major may be chosen from the core majors, or from the majors offered by the University of Sydney Business School (eg accounting or finance). Alternatively a second major may be selected from Table A or Table B (see Bachelor of Arts, page 52), so long as students have completed sufficient units of study from the School of Economics and the University of Sydney Business School.	Mathematics (other assumed knowledge depends on subjects chosen)	94.15
Bachelor of Economics/Bachelor of Laws	5	See Bachelor of Economics (above) and Bachelor of Laws (combined) (page 58).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Economics/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Economics (above) plus medicine and surgery. All students must take some study in physics, biology, chemistry.	Mathematics (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of International and Global Studies	3	All students follow an interdisciplinary core program in international and global studies. A required major is chosen from government and international relations, anthropology, political economy, international business, sociology or an area study (American studies, Arab world, Islam and the Middle East, Asian studies or European studies), with an optional major/minor from a wide range of subjects including a second language. A second major or electives may be chosen from Table A or Table B.	As for Bachelor of Arts	95.05
Bachelor of International and Global Studies/Bachelor of Laws	5	See Bachelor of International and Global Studies (above) and Bachelor of Laws (combined) (page 58).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Liberal Arts and Science	3	This degree allows a wide choice of subjects from the Faculty of Arts and Social Sciences, the Faculty of Science and other faculties. Students choose a major from the Bachelor of Arts (BA, see page 52) or the Bachelor of Science (BSc, see page 61), and a series of units of study from the BA if they major in Science, or the BSc, if they major in Arts. Students also study a specialised liberal studies stream (covering areas such as communication, analytical thinking, ethics, culture, society and global citizenship, scientific enquiry and technological literacy).	Depends on subjects chosen	75.00
Bachelor of Political, Economic and Social Sciences	3	Students must complete at least two years of study in government and international relations, political economy, and either sociology or anthropology. One of these four subject areas must be selected as the principal specialisation for a major. It is possible to take a second major from Table A or Table B.	As for Bachelor of Arts	90.05
Bachelor of Political, Economic and Social Sciences/Bachelor of Laws	5	See Bachelor of Political, Economic and Social Sciences (above) and Bachelor of Laws (combined) (page 58).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Socio-Legal Studies	3	All students complete a core program of study in socio-legal studies and a major from Table A (see Bachelor of Arts, page 52).	As for Bachelor of Arts	84.25

\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).  
A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>BUSINESS (see page 36 for an overview of this area of study)</b>				
Bachelor of Commerce	3	Students must complete a major in one of the following: accounting, business information systems, commercial law, econometrics, economics, finance, industrial relations and human resource management, international business, management, marketing, operations management and decision sciences. A second major may be chosen from the above list or from other faculties within the University (depending on the first major chosen). Alternatively, students may complete a sequence of elective units.	Mathematics (other assumed knowledge depends on subjects chosen)	95.50
Bachelor of Commerce (Liberal Studies)	4	Students must complete two majors, at least one from: accounting, commercial law, econometrics, economics, finance, industrial relations and human resource management international business, management and marketing. The second major can be drawn from a broader list, which includes all of the above areas as well as agricultural economics, business information systems, computer science, financial mathematics, government and international relations, mathematics, operations management and decision sciences and political economy Additional units must also be undertaken from the faculties of Arts and Social Sciences and Science.	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area)	98.00
Bachelor of Commerce/Bachelor of Arts	5	See Bachelor of Commerce (above) and Bachelor of Arts (page 52).	As for Bachelor of Commerce and Bachelor of Arts	95.60
Bachelor of Engineering/Bachelor of Commerce	5	See Bachelor of Commerce (above) and Bachelor of Engineering (pages 56–7).	Mathematics Extension 1, Physics and/or Chemistry (other assumed knowledge depends on subjects chosen)	95.60
Bachelor of Information Technology/Bachelor of Commerce	5	See Bachelor of Commerce (above) and Bachelor of Information Technology (page 57).	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	95.70
Bachelor of Commerce/Bachelor of Laws	5	See Bachelor of Commerce (above) and Bachelor of Laws (combined) (page 58).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Commerce/Bachelor of Medicine/Bachelor of Surgery	7	See Bachelor of Commerce (above) and Bachelor of Medicine/Bachelor of Surgery (page 59). All students must take some study in physics, biology and chemistry.	Mathematics (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Commerce/Bachelor of Science*	5	See Bachelor of Commerce (above) and Bachelor of Science (page 61).	As for Bachelor of Commerce and Bachelor of Science	95.55
<b>DENTISTRY** (see page 37 for an overview of this area of study)</b>				
Bachelor of Oral Health	3	Dental hygiene, dental therapy, oral health promotion	Recommended studies: Chemistry, Biology	A+C

\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).

\*\* For 2012 entry our graduate-entry course will, subject to approval, be renamed as the Doctor of Dental Surgery. For more information see [sydney.edu.au/dentistry](http://sydney.edu.au/dentistry)

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>EDUCATION AND SOCIAL WORK (see page 38 for an overview of this area of study)</b>				
Bachelor of Education (Early Childhood)	4	Generalist units in education and professional studies Studies include in-depth coverage of child development and learning and units of study in key learning areas (eg language, arts, mathematics, health and wellbeing science). Minor studies: Units of study in the sciences, social sciences and humanities offered by the faculties of Arts and Social Sciences and Science and the Business School	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area)*	80.50
Bachelor of Education (Primary)	4	All students follow a core program of study in education, along with intensive study and in-school experience. Minor studies: Two semester-length units of study taken in first year from those offered by the faculties of Arts and Social Sciences and Science, and the Business School	Band 4 in English and Band 4 in General Mathematics, or any Band in Mathematics (2 unit)*	87.25
Bachelor of Education (Secondary: Human Movement and Health Education)	4	Health education and human movement education. Minor studies: Two units of study taken in first year from those offered by the faculties of Arts and Social Sciences and Science and the Business School	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area)*	81.30
Bachelor of Education (Secondary: Humanities and Social Sciences)/ Bachelor of Arts	5	All students follow a core program of study in education, along with intensive study and professional experience in a teaching area. These may include drama, economics/ commerce, business studies, English, geography, history, languages, teaching English to speakers of other languages (TESOL) and visual arts. Minor studies: A second teaching subject. Students may qualify to teach in a third teaching area (TESOL only). Economics, geography, mathematics or TESOL may be taken as a minor only. In the first two years, education is a compulsory subject, together with units of study in one or two teaching areas (eg English and history). Students can exit the program at the end of third year with a Bachelor of Arts if they notify the faculty by the end of second year. At the end of the fifth year, students qualify for the Bachelor of Education and Bachelor of Arts.	Band 4 in English (other assumed knowledge depends on subjects chosen)*	84.15
Bachelor of Education (Secondary: Mathematics)/Bachelor of Science**	5	Core study in education and mathematics (with the option of completing units in an additional teaching area). Minor studies: Subjects selected from the Faculty of Science (eg biology, chemistry, geology, physics). Students may take mathematics as a double teaching subject or two single teaching areas – mathematics plus one of the other areas listed in minor studies. In the first two years, education is a compulsory subject, together with units of study in two teaching areas. Students can exit the program at the end of third year with a Bachelor of Science if they notify the faculty by the end of second year. At the end of five years of study students will complete the Bachelor of Education/Bachelor of Science and will be qualified to teach in one or two teaching areas.	Mathematics Extension 1 and Band 4 in English (other assumed knowledge depends on subjects chosen)*	87.10
Bachelor of Education (Secondary: Science)/Bachelor of Science**	5	Core study in education and mathematics (with the option of completing units in an additional teaching area). Minor studies: Subjects selected from the Faculty of Science (eg biology, chemistry, geology, physics). Students may take mathematics as a double teaching subject or two single teaching areas – mathematics plus one of the other areas listed in minor studies. In the first two years, education is a compulsory subject, together with units of study in two teaching areas. Students can exit the program at the end of third year with a Bachelor of Science if they notify the faculty by the end of second year. At the end of five years of study students will complete the Bachelor of Education/Bachelor of Science and will be qualified to teach in one or two teaching areas.	Mathematics Extension 1 or Mathematics (2 unit), and Band 4 in English (other assumed knowledge depends on subjects chosen)*	84.70
Bachelor of Social Work	4	Social policy and social work, Indigenous studies, psychology, sociology. First and second years: students may choose from the units of study listed under the Bachelor of Arts (page 52) Third and fourth years: Professional program including social policy, social work and research skills.	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area)	81.35
Bachelor of Arts/Bachelor of Social Work	5	See Bachelor of Social Work (above) and Bachelor of Arts (page 52).	As for Bachelor of Social Work and Bachelor of Arts	84.35

\* If you plan to seek employment as a primary or secondary teacher in NSW, you must have achieved a certain standard in your high school studies.

\*\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>ENGINEERING AND INFORMATION TECHNOLOGIES (see page 39 for an overview of this area of study)</b>				
Bachelor of Computer Science and Technology	3	Computer science, information systems	Mathematics or Mathematics Extension 1 (depending on subjects chosen)	85.25
Bachelor of Computer Science and Technology (Advanced)	3	As for Bachelor of Computer Science and Technology (above) but with study at an advanced level. This is a more challenging variant of the Bachelor of Computer Science and Technology for applicants with substantial programming experience and aptitude and/or a high ATAR. It has the same flexible structure as the Bachelor of Computer Science and Technology but students take a significant amount of their study (including half of third year) in advanced units, encompassing more challenging topics and approaches to IT. As part of the third-year advanced study, students undertake a large group development project of industrial relevance. Students who perform well may apply to transfer to the four-year Bachelor of Information Technology (page 57).	Mathematics or Mathematics Extension 1 (depending on subjects chosen)	92.70
Flexible First Year (Engineering, Information Technologies, Computer Science)	4	Flexible First Year allows you to decide your eventual engineering specialisation after completing one year of full-time study.	Mathematics Extension 1, Physics and/or Chemistry	89.05
Bachelor of Engineering (Aeronautical)	4	Aerospace technology, control systems, low-speed aerodynamics, materials, structural analysis	Mathematics Extension 1, Physics and/or Chemistry	91.80
Bachelor of Engineering (Aeronautical – Space)	4	Aerospace structures, composite materials, mechanics, propulsion, space electronics, space engineering	Mathematics Extension 1, Physics and/or Chemistry	99.45
Bachelor of Engineering (Biomedical)	4	Biomedical technology, fundamentals of biomedical engineering, human biology, materials, mechanical design	Mathematics Extension 1, Physics and/or Chemistry	95.90
Bachelor of Engineering (Chemical – Biomolecular)	4	Chemical process case studies, computations, flow sheets and optimisation, materials and corrosion, solid mechanics	Mathematics Extension 1, Physics and/or Chemistry	88.15
Bachelor of Engineering (Civil)	4	Civil engineering design, concrete and steel structures, engineering geology, fluids, introduction to structural concepts, soil mechanics	Mathematics Extension 1, Physics and/or Chemistry	90.70
Bachelor of Engineering (Civil – Construction Management)	4	Project formulation, project management IT, project planning and tendering, structural mechanics, surveying, transport engineering and planning	Mathematics Extension 1, Physics and/or Chemistry	90.15
Bachelor of Engineering (Civil – Environmental)	4	Chemistry, environmental decision making, environmental mechanics, geotechnics, introduction to structural concepts, water resources engineering	Mathematics Extension 1, Physics and/or Chemistry	96.25
Bachelor of Engineering (Civil – Geotechnical)	4	Concrete and steel structures, environmental geotechnics, finite element methods, geology, geotechnical engineering, structural mechanics	Mathematics Extension 1, Physics and/or Chemistry	99.15
Bachelor of Engineering (Civil – Project Engineering and Management)	4	Contracts formulation and management, financial accounting principles, project planning and tendering, project scope, time and cost management	Mathematics Extension 1, Physics and/or Chemistry	90.25
Bachelor of Engineering (Civil – Structural)	4	Bridge engineering, concrete structures, introduction to structural concepts, steel structures, structural dynamics, structural mechanics	Mathematics Extension 1, Physics and /or Chemistry	95.70
Bachelor of Engineering (Electrical) (Bioelectronics)	4	Electrical engineering, foundations in physics, mathematics, biology, microelectronics, image processing, photonics, automatic control, bio-system interfacing and biomedical engineering	Mathematics Extension 1, Physics and/or Chemistry	98.40
Bachelor of Engineering (Electrical) (Power)	4	Power electronics and drives, engineering and electromagnetics, electrical energy systems and management, digital signal processing, electronic circuit design, communications, embedded computing, management for engineers	Mathematics Extension 1, Physics and/or Chemistry	95.80
Bachelor of Engineering (Electrical, Telecommunications, Computer)	4	Digital devices and circuits, digital system design, foundation of computer systems, foundations of electrical circuits, software development, circuit analysis, fundamentals of feedback control, operating systems, real-time computing, switching devices and circuits, data communications and the internet, electronic devices and circuits, microcomputer systems, optical systems, satellite systems, signals and systems	Mathematics Extension 1, Physics and/or Chemistry	87.15

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
Bachelor of Engineering (Mechanical)	4	Industrial management, materials, mechanical design, mechanics of solids, system control, thermodynamics	Mathematics Extension 1, Physics and/or Chemistry	90.05
Bachelor of Engineering (Mechanical – Space)	4	Flight mechanics, mechanical dynamics, satellite communications systems, smart materials and structures, space engineering	Mathematics Extension 1, Physics and/or Chemistry	99.00
Bachelor of Engineering (Mechatronic)	4	Electronic devices and circuits, industrial management, introductory electrics, mechanical design, power electronics and drives	Mathematics Extension 1, Physics and/or Chemistry	92.20
Bachelor of Engineering (Mechatronic – Space)	4	Computers in real time, mechatronics, satellite communications systems, space engineering	Mathematics Extension 1, Physics and/or Chemistry	99.45
Bachelor of Engineering (Software)	4	Data communications and the internet, network programming, operating systems, signals and systems, software validation and verification	Mathematics Extension 1, Physics and/or Chemistry	91.05
Bachelor of Engineering/ Bachelor of Arts	5	See engineering streams (above) and Bachelor of Arts (page 52).	Mathematics Extension 1, Physics and/or Chemistry (other assumed knowledge depends on subjects chosen)	91.05
Bachelor of Engineering/ Bachelor of Commerce	5	See engineering streams (above) and Bachelor of Commerce (page 54).	Mathematics Extension 1, Physics and/or Chemistry (other assumed knowledge depends on subjects chosen)	95.60
Bachelor of Engineering/ Bachelor of Laws	6	See engineering streams (above) and Bachelor of Laws (combined) (page 58).	Mathematics Extension 1, Physics and/or Chemistry (none for Law)	99.70
Bachelor of Engineering/ Bachelor of Medical Science	5	See engineering streams (above) and Bachelor of Medical Science (page 61).	Mathematics Extension 1, Chemistry and Biology or Physics	93.65
Bachelor of Engineering/ Bachelor of Science*	5	See engineering streams (above) and Bachelor of Science (page 61).	Mathematics Extension 1, Physics and/or Chemistry	92.00
Bachelor of Engineering (Civil)/ Bachelor of Design in Architecture	5	See engineering streams (above) and Bachelor of Design in Architecture (page 51).	Mathematics Extension 1, Physics and/or Chemistry	98.20
Bachelor of Information Technology	4	Computer science, information systems	Mathematics or Mathematics Extension 1 depending on subjects chosen	97.50
Bachelor of Information Technology/Bachelor of Arts	5	See Bachelor of Information Technology (above) and Bachelor of Arts (page 52).	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	98.20
Bachelor of Information Technology/Bachelor of Commerce	5	See Bachelor of Information Technology (above) and Bachelor of Commerce (page 54).	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	95.70
Bachelor of Information Technology/Bachelor of Laws	6	See Bachelor of Information Technology (above) and Bachelor of Laws (combined) (page 58).	Mathematics Extension 1, Physics and/or Chemistry (none for Law)	99.70
Bachelor of Information Technology/Bachelor of Medical Science	5	See Bachelor of Information Technology (above) and Bachelor of Medical Science (page 61).	Mathematics or Mathematics Extension 1, Chemistry, and Biology or Physics (other assumed knowledge depends on subjects chosen)	93.80
Bachelor of Information Technology/Bachelor of Science*	5	See Bachelor of Information Technology (above) and Bachelor of Science (page 61).	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	96.95

\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>HEALTH SCIENCES (see page 40 for an overview of this area of study)</b>				
Bachelor of Applied Science (Exercise Physiology)	4	Fundamental and clinical exercise sciences (the degree involves 500–650 hours of clinical experience integrated throughout the degree)	Mathematics and Chemistry	New in 2012
Bachelor of Applied Science (Exercise and Sport Science)	3	Anatomy, biochemistry, biomechanics, learning and control of human movement, nutrition, physiology/exercise physiology, and the application of these fundamental sciences to sport, exercise, ageing, rehabilitation, public health and research	Mathematics and Chemistry Recommended studies: Physics	89.45
Bachelor of Applied Science (Exercise and Sport Science)/ Master of Nutrition and Dietetics	5	Biology, biomechanics, chemistry, dietetics, food science, nutrition, physiology/exercise physiology and sport science	Mathematics and Chemistry Recommended studies: Physics	97.10
Bachelor of Applied Science (Medical Radiation Science – Diagnostic Radiography)	3	Anatomy, biological sciences, clinical education, equipment and imaging techniques, image processing, pathology, psychology, radiation physics, sociology	Recommended studies: Mathematics plus one of Biology, Chemistry or Physics	92.80
Bachelor of Applied Science (Occupational Therapy)	4	Occupational therapy and clinical placements throughout the degree	Recommended studies: Chemistry or Biology	91.20
Bachelor of Applied Science (Physiotherapy)	4	Physiotherapy and clinical placements throughout the degree	Physics and Chemistry Recommended studies: Mathematics	97.40
Bachelor of Applied Science (Speech Pathology)	4	Identification and treatment of speech and language impairments and other communication disorders	Recommended studies: English Advanced	90.35
Bachelor of Health Sciences	3	Health systems and services plus an additional major chosen from the faculty of Health Sciences, Science or Arts and Social Sciences or the Business School	Recommended studies: Chemistry or a chemistry bridging course	84.00
Bachelor of Health Sciences/ Master of Nursing	4	See Bachelor of Health Sciences/Master of Nursing (page 60).	Recommended studies: Chemistry or a chemistry bridging course	84.00

<b>LAW (see page 41 for an overview of this area of study)</b>				
Bachelor of Laws (combined)	5	As an undergraduate degree, law is taken combined with another degree. It is currently possible to combined law with any of the following: Architecture; Arts; Arts (Media and Communications); Commerce; Economics; Political, Economic and Social Sciences; Engineering; Information Technology; International and Global Studies; Science.	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Arts/Bachelor of Laws	5	See Bachelor of Arts (page 52) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Arts (Media and Communications)/Bachelor of Laws	6	See Bachelor of Arts (Media and Communications) (page 52) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Commerce/Bachelor of Laws	5	See Bachelor of Commerce (page 54) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Design in Architecture/ Bachelor of Laws	5	See Bachelor of Design in Architecture (page 51) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Economics/ Bachelor of Laws	5	See Bachelor of Economics (page 53) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Engineering/Bachelor of Laws	6	See Bachelor of Engineering (pages 56–7) and Bachelor of Laws (combined) (above).	Mathematics Extension 1, Physics and/or Chemistry. None for Law itself	99.70
Bachelor of Information Technology/ Bachelor of Laws	6	See Bachelor of Information Technology (page 57) and Bachelor of Laws (combined) (above).	Mathematics Extension 1, Physics and/or Chemistry. None for Law itself	99.70
Bachelor of International and Global Studies/ Bachelor of Laws	5	See Bachelor of International and Global Studies (page 53) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Political, Economic and Social Sciences/ Bachelor of Laws	5	See Bachelor of Political, Economic and Social Sciences (page 53) and Bachelor of Laws (combined) (above).	Depends on degree combined with Law, but none for Law itself	99.70
Bachelor of Science/ Bachelor of Laws*	5	See Bachelor of Science (page 61) and Bachelor of Laws (combined) (above).	Mathematics or Mathematics Extension 1 (there may be other assumed knowledge depending on Science subjects chosen). None for Law itself	99.70

\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>MEDICINE (see page 42 for an overview of this area of study)</b>				
Bachelor of Arts (Advanced) (Honours)/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Arts (Advanced) (Honours) (page 52) plus medicine and surgery. All students must take some study in physics, biology, chemistry.	Depends on subjects chosen (some units of study assume a level of knowledge of the subject area)	A+C
Bachelor of Commerce/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Commerce (page 54) plus medicine and surgery. All students must take some study in physics, biology, chemistry.	Mathematics (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Economics/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Economics (page 53) plus medicine and surgery. All students must take some study in physics, biology, chemistry.	Mathematics (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Medical Science/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Medical Science (page 61) plus medicine and surgery. All students must take some study in mathematics.	Mathematics, Chemistry, and Biology or Physics (other assumed knowledge depends on subjects chosen)	A+C
<b>ATSI applicants only:</b> Bachelor of Medical Science/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Medical Science (page 61) plus medicine and surgery. All students must take some study in mathematics.	Mathematics, Chemistry, and Biology or Physics (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Music Studies/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Music Studies (page 59) plus medicine and surgery. All students must take some study in physics, biology, chemistry.	Music 2	A+C
Bachelor of Science (Advanced)/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Science (Advanced) (page 62) plus medicine and surgery. All students must take some study in mathematics.	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	A+C
<b>ATSI applicants only:</b> Bachelor of Science (Advanced)/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Science (Advanced) (page 62) plus medicine and surgery. All students must take some study in mathematics.	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Medicine/Bachelor of Surgery (MBBS)	4	Structured on four themes: basic and clinical sciences; patient and doctor; population medicine (public health, evidence-based medicine, statistics, health economics); and personal and professional development (medical ethics, medico-legal issues, doctors' health)	This is a graduate-entry program. For full details of application procedure, visit <a href="http://sydney.edu.au/medicine">sydney.edu.au/medicine</a>	A+C

<b>MUSIC (see page 43 for an overview of this area of study)</b>				
Diploma of Music	2	Instrumental study in brass (French horn, trombone, trumpet, tuba), early music (baroque flute, harpsichord, lute, organ, recorder, viola da gamba), jazz studies, piano, percussion, strings (cello, double bass, guitar, harp, viola, violin), woodwind (bassoon, clarinet, flute, oboe, saxophone) or voice (classical)	Music 2	A+C
Advanced Diploma of Opera	3	Opera repertoire and opera voice, opera diction, movement and production, opera ensemble	Music 2	A+C
Bachelor of Music (Composition)	4	Composition (electroacoustic and traditional), compositional techniques and analysis. In senior years students may specialise in traditional or electroacoustic composition, analysis, history and cultural studies, performance practice and music skills (aural perception, harmony, music technology).	Music 2	A+C
Bachelor of Music (Music Education)	4	Music education, plus instrument or voice or academic study selected from brass (French horn, trombone, trumpet, tuba), early music (baroque flute, harpsichord, lute, organ, recorder, viola da gamba), jazz studies, piano, musicology, composition, percussion, strings (cello, double bass, guitar, harp, viola, violin), vocal studies (classical or jazz), woodwind (bassoon, clarinet, flute, oboe, saxophone), analysis, history and cultural studies, music skills (aural perception, harmony, music technology) and subjects from other faculties	Music 2	A+C
Bachelor of Music (Musicology)	4	Musicology, musicology workshops, history and analysis of music studies, music skills (aural perception, harmony, music technology), analysis, history and cultural studies, pedagogy, performance and subjects from other faculties	Music 2	A+C

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>MUSIC continued (see page 43 for an overview of this area of study)</b>				
Bachelor of Music (Performance)	4	Instrument or voice selected from brass (french horn, trombone, trumpet, tuba), early music (baroque flute, harpsichord, lute, organ, recorder, viola da gamba), piano, percussion, strings (cello, double bass, guitar, harp, viola, violin), vocal studies (classical) and woodwind (bassoon, clarinet, flute, oboe, saxophone), analysis, history and cultural studies, music skills (aural perception, harmony, music technology) and subjects from other faculties	Music 2	A+C
Bachelor of Music (Performance – Jazz)	4	Jazz performance (bass, brass, drums, electric guitar, piano, saxophone, trombone, trumpet, plus improvisation class), jazz ensemble, jazz history, jazz music skills, jazz transcription and analysis, music technology, music business skills	Music 2	A+C
Bachelor of Music Studies	3	Instrument, voice or academic study selected from brass (French horn, trombone, trumpet, tuba), early music (baroque flute, harpsichord, lute, organ, recorder, viola da gamba), piano, musicology, composition, percussion, strings (cello, double bass, guitar, harp, viola, violin), voice (classical or jazz) and woodwind (bassoon, clarinet, flute, oboe, saxophone), analysis, history and cultural studies, music skills (aural perception, harmony, music technology) and subjects from other faculties	Music 2	A+C
Bachelor of Music Studies/ Bachelor of Arts	5	Instrument, voice or academic study selected from brass (French horn, trombone, trumpet, tuba), early music (baroque flute, harpsichord, lute, organ, recorder, viola da gamba), piano, musicology, composition, percussion, strings (cello, double bass, guitar, harp, viola, violin), voice (classical or jazz) and woodwind (bassoon, flute, clarinet, oboe, saxophone). For majors in the Arts component see Bachelor of Arts (page 52).	Music 2 (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Music Studies/Bachelor of Medicine/Bachelor of Surgery	7	Music studies: Instrument or voice or academic study selected from brass (French horn, trombone, trumpet, tuba), early music (baroque flute, harpsichord, lute, organ, recorder, viola da gamba), piano, musicology and composition, percussion, strings (cello, double bass, guitar, harp, viola, violin), voice (classical and jazz) and woodwind (bassoon, flute, clarinet, oboe, saxophone). All students must take some study in physics, biology and chemistry. For more details, visit <a href="http://sydney.edu.au/medicine">sydney.edu.au/medicine</a>	Music 2	A+C

<b>NURSING (see page 44 for an overview of this area of study)</b>				
Bachelor of Arts/Master of Nursing	4	In first year, students focus on their Arts degree (see page 52). Years two and three are split equally between the Arts degree and Nursing. Year four is entirely Nursing. Students gain extensive nursing theory and practice. The combined degree allows students to study an area of interest in the humanities and social sciences, eg history, psychology, languages or sociology, with a Master of Nursing.	See Bachelor of Arts (page 52)	84.00
Bachelor of Health Sciences/ Master of Nursing	4	In first year, students focus on their Health Sciences degree. Years two and three are split equally between the Health Sciences degree and Nursing. Year four is entirely Nursing. Students gain extensive nursing theory and practice and a major from the Bachelor of Health Sciences (see page 58). This combined degree allows students to develop a broader knowledge of the health sciences and relate it to nursing in areas including toxicology, epidemiology, microbiology, behavioural health science, management and project design.	See Bachelor of Health Sciences (page 58)	84.00
Bachelor of Science/ Master of Nursing*	4	In first year, students focus on their Science degree. Years two and three are split equally between the Science degree and Nursing. Year four is entirely Nursing. Students gain extensive nursing theory and practice and a major from Bachelor of Science (see page 61). The combined degree allows students to develop an area of interest in the sciences and relate it to nursing, eg pharmacology, psychology, physiology or biomedical science.	See Bachelor of Science (page 61)	84.50

\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>PHARMACY (see page 45 for an overview of this area of study)</b>				
Bachelor of Pharmacy	4	In first year, students focus on biology, chemistry and basic pharmaceutical sciences. Years two to four focus on higher levels of biomedical and pharmaceutical sciences, and on specialised clinical pharmacy studies. There are clinical placements in community and hospital pharmacies during third and fourth year. In fourth year students choose to major in industrial or rural pharmacy or do an international exchange. High-achieving students are invited to enrol in the honours program, which involves completion of a significant research project.	Mathematics, Chemistry, and either Physics or Biology	A+C
<b>SCIENCE (see page 47 for an overview of this area of study)</b>				
Bachelor of Liberal Arts and Science	3	This degree allows a wide choice of subjects from the Faculty of Arts and Social Sciences, the Faculty of Science and other faculties. Students choose a major from the Bachelor of Arts (BA, see page 52) or the Bachelor of Science (BSc, see below), and a series of units of study from the BA if they major in Science, or the BSc if they major in Arts. Students also study a specialised liberal studies stream (covering areas such as communication, analytical thinking, ethics, culture, society and global citizenship, scientific enquiry and technological literacy).	Depends on subjects chosen	75.00
Bachelor of Medical Science	3	Anatomy, biochemistry, biology, cell pathology, genetics, histology, history and philosophy of science, immunology, infectious diseases, microbiology, molecular biology, pharmacology, physiology	Mathematics, Chemistry, and Physics or Biology (all students must study first-year Mathematics)	92.05
Bachelor of Engineering/ Bachelor of Medical Science	5	See Bachelor of Medical Science (above) and Bachelor of Engineering (pages 56–7)	Mathematics Extension 1, Chemistry, and Biology or Physics	93.65
Bachelor of Information Technology/ Bachelor of Medical Science	5	See Bachelor of Medical Science (above) and Bachelor of Information Technology (page 57)	Mathematics or Mathematics Extension 1, Chemistry, and Biology or Physics (other assumed knowledge depends on subjects chosen)	93.80
Bachelor of Medical Science/ Bachelor of Medicine/ Bachelor of Surgery	7	As for Bachelor of Medical Science (above) plus medicine and surgery	Mathematics, Chemistry, and Biology or Physics (other assumed knowledge depends on subjects chosen)	A+C
<b>ATSI applicants only:</b> Bachelor of Medical Science/ Bachelor of Medicine/ Bachelor of Surgery	7	As for Bachelor of Medical Science (above) plus medicine and surgery	Mathematics, Chemistry, and Biology or Physics (other assumed knowledge depends on subjects chosen)	A+C
Bachelor of Psychology	4	Arts stream: psychology, Arts major (see Bachelor of Arts, page 52). Science stream: psychology	Both streams: depends on subjects chosen Science stream: Mathematics (all students in the Science stream must take some units of study in mathematics)	97.25
Bachelor of Science	3	Agricultural chemistry; anatomy and histology; biochemistry; bioinformatics; biology (animal, plant genetics); cell pathology; chemistry; computational science; computer science; environmental studies; financial mathematics and statistics; geography; geology and geophysics; history and philosophy of science; immunobiology; information systems; marine science; mathematics; medicinal chemistry; microbiology; nanoscience and technology; neuroscience; pharmacology; physics; physiology; plant science; psychology; soil science; statistics	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	84.50
Bachelor of Science (Advanced)	3	See Bachelor of Science (above). Advanced majors: biochemistry, bioinformatics (additional six credit points), biology, chemistry, computational science, computer science, financial mathematics and statistics, geography, geology and geophysics, marine science, mathematics, medicinal chemistry, microbiology, neuroscience, pharmacology, physics, physiology, plant science, statistics	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	95.00

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>SCIENCE continued (see page 47 for an overview of this area of study)</b>				
Bachelor of Science (Advanced Mathematics)	3	Financial mathematics and statistics, mathematics, statistics	Mathematics Extension 2	98.15
Bachelor of Science/Bachelor of Arts*	5	See Bachelor of Science (above) and Bachelor of Arts (page 52).	Mathematics or Mathematics Extension 1 (see also Bachelor of Science, above, and Bachelor of Arts, page 52)	84.60
Bachelor of Commerce/Bachelor of Science*	5	See Bachelor of Science (page 61) and Bachelor of Commerce (page 54).	As for Bachelor of Science and Bachelor of Commerce	95.55
Bachelor of Education (Secondary: Mathematics)/Bachelor of Science*	5	Core study in education and mathematics (with the option of completing units in an additional teaching area). Minor studies: Subjects selected from Faculty of Science (eg biology, chemistry, geology, physics). Students may take mathematics as a double teaching subject or two single teaching areas – mathematics plus one of the other areas listed in minor studies. In the first two years, education is a compulsory subject, together with units of study in two teaching areas. Students can exit the program at the end of third year with a Bachelor of Science if they notify the faculty by the end of second year. At the end of five years of study students will complete the Bachelor of Education/Bachelor of Science and will be qualified to teach in one or two teaching areas.	Mathematics (other assumed knowledge depends on subjects chosen)	87.10
Bachelor of Education (Secondary: Science)/Bachelor of Science*	5	Core study in education and mathematics (with the option of completing units in an additional teaching area). Minor studies: Subjects selected from the Faculty of Science (eg biology, chemistry, geology, physics). Students may take mathematics as a double teaching subject or two single teaching areas – mathematics plus one of the other areas listed in minor studies. In the first two years, education is a compulsory subject, together with units of study in two teaching areas. Students can exit the program at the end of third year with a Bachelor of Science if they notify the faculty by the end of second year. At the end of five years of study students will complete the Bachelor of Education/Bachelor of Science and will be qualified to teach in one or two teaching areas.	Mathematics (other assumed knowledge depends on subjects chosen)	84.70
Bachelor of Engineering/Bachelor of Science*	5	See Bachelor of Science (page 61) and Bachelor of Engineering (page 56–7).	Mathematics Extension 1, Physics and/or Chemistry	92.00
Bachelor of Information Technology/Bachelor of Science*	5	See Bachelor of Science (page 61) and Bachelor of Information Technology (page 57).	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	96.95
Bachelor of Science/Bachelor of Laws*	5	See Bachelor of Science (page 61) and Bachelor of Laws (combined) (page 58).	Mathematics or Mathematics Extension 1 (there may be other assumed knowledge depending on Science subjects chosen). None for Law itself	99.70
Bachelor of Science/Master of Nursing*	4	Bachelor of Science: biochemistry, physiology, microbiology, psychology. Master of Nursing: Clinical nutrition, public health nutrition, nutritional science	Mathematics (other assumed knowledge depends on subjects chosen)	84.50
Bachelor of Science/Master of Nutrition and Dietetics*	5	See Bachelor of Science (page 61) (students are required to complete units in biochemistry, molecular biology and human physiology).	Mathematics	98.70
Bachelor of Science (Advanced)/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Science (Advanced) (page 61) plus medicine and surgery. All students must take some study in mathematics.	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	A+C
<b>ATSI applicants only:</b> Bachelor of Science (Advanced)/Bachelor of Medicine/Bachelor of Surgery	7	As for Bachelor of Science (Advanced) (page 61) plus medicine and surgery. All students must take some study in mathematics.	Mathematics or Mathematics Extension 1 (other assumed knowledge depends on subjects chosen)	A+C

\* It is also possible to enrol in a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics) in a combined course. To do this students must achieve an ATAR (or equivalent) sufficient for admission into a Bachelor of Science (Advanced) or a Bachelor of Science (Advanced Mathematics).

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

COURSE	YEARS	MAJORS	ASSUMED KNOWLEDGE	ATAR
<b>VETERINARY SCIENCE (see page 48 for an overview of this area of study)</b>				
Bachelor of Animal and Veterinary Bioscience	4	Animal biotechnology, animal genetics, animal health and diseases, animal nutrition, animal reproduction, animal structure and function, animal behaviour and welfare, aquaculture, cattle, pig, poultry and sheep science and production	Mathematics and Chemistry Recommended studies: Biology	84.10
Bachelor of Veterinary Science	5	Animal diseases and pathology, animal husbandry, cell biology, clinical and professional practice, pharmacology, veterinary anatomy and physiology, veterinary conservation biology, veterinary medicine, veterinary surgery	Chemistry, Mathematics and Physics Recommended studies: Biology	A+C
<b>VISUAL ARTS (see page 49 for overview of this area of study)</b>				
Visual Arts	3	Fine art majors: painting, printmedia, sculpture, performance and installation. Object art and design majors: ceramics, glass, jewellery and object. Media art majors: film and digital art, photomedia. Minor studies: A wide range of electives in fine art, media art and object art and design	Recommended studies: Visual Arts and Design and Technology	A+C

A+C Combination of ATAR and additional selection criteria used. See page 67 for details.

