

Sydney Grammar School

Year 10 guide to HSC subject selection

for 2023
university entry



This publication provides a general overview of the HSC subjects which are the academic foundation for undergraduate degrees in 2023. The information is based on the best available at March 2020.

Rather than giving you every last detail, the guide aims to give you the general idea so that you can plan according to the basic principles. Once you have the basic ideas sorted, you can then do a cross check with the UAC publication Steps to Uni for Year 10 students, usually available around end May, or with the course guides of individual institutions.

Not every course is listed, especially all the combined degrees which tend to confuse the main issue. (The requirements for combined degrees are usually those of each of the component degrees.)

English is not listed as a prerequisite/ assumed knowledge because the ATAR requires at least two unit English and there is no point in listing it for every course.

Editorial Committee

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If you are good at it, do it.

The official word is that you should take the subjects that reflect your interests and abilities.

That's the way to maximise your ATAR and to make it worthwhile in all sorts of other ways.

There are some simple requirements about English and the number of units you must complete for the HSC – and university prerequisites to consider.

But otherwise, if you are good at it, do it. The ATAR will follow and, with a few simple precautions, you will have the prerequisites covered for entry to the course of your choice.

HSC and ATAR subject grid

Year 11

12+ prelimin. units

Usually means **6 courses, each worth 2 units, including English**. Extension subjects are worth 1 unit.

Must include 6 units of Board Developed Courses¹ including 2 units of English.

Preliminary must cover **4 subject areas** and **3 courses of two units or more**

Preliminary **extension courses** available in English Mathematics

Year 12

10+ HSC units

Usually means **5 courses, each worth 2 units, including English**. Extension subjects usually worth 1 unit⁴.

HSC must include 6 units of Board Developed Courses¹ including 2 units of English

HSC must cover **4 subject areas** and **3 courses of two units or more**

HSC **extension courses** available in English Mathematics⁴ History Music Languages Science

ATAR

10+ HSC units

ATAR is based on 10 best units including English (2 units) from Board Developed Courses^{1,4}.

Usually means 5 courses each worth 2 units. Extension subjects are worth 1 unit.

Your HSC must cover **4 subject areas** and include 8 units of Category A courses (up to 2 units of Category B courses can be included)^{2,3}

extension courses available in English Mathematics^{4,5} History Music Languages Science⁵

Students in NSW must reach a minimum standard of literacy and numeracy to be eligible for the HSC. Students can demonstrate they meet the standard by passing online reading, writing and numeracy tests, which will be available for students to sit in Year 10, Year 11 and Year 12.

HSC Subject Grid notes:

1. **Board Developed Courses** are the ones set and externally examined by the NSW Education Standards Authority (NESA). (English Studies, a Category B course, can count as an ATAR eligible English course if students take the optional Year 12 external exam.)
2. Nearly all Board Developed Courses are classified as Category A courses; **Category B (VET) courses** are more vocationally specific:
 - Automotive (Exam)
 - Business Services (Exam)
 - Construction (Exam)
 - Electrotechnology (Exam)
 - Entertainment Industry (Exam)
 - Financial Services (Exam)
 - Hospitality (Exam)
 - Human Services (Exam)
 - Information and Digital Technology (Exam)
 - Mathematics Standard 1 (Exam)
 - Metal and Engineering (Exam)
 - Primary Industries (Exam)
 - Retail Services (Exam)
 - Tourism and Events (Exam)
3. You also need to undertake three Board Developed courses of two units or greater, but if you have all the other requirements covered you would have this one covered as well in almost all cases.
4. Mathematics Extension 2 is worth 2 units.
5. Only 4 units of calculus-based mathematics can be included in your ATAR. Mathematics Ext 2 is worth 2 units and then Mathematics Ext 1 will also be worth 2 units (instead of 1 unit) if it is taken with Mathematics Ext 2.



the international baccalaureate

**The International Baccalaureate
(IB) Diploma Programme is a
recognised alternative to the
HSC, offered primarily by a
number of non-government
schools.**

The IB Diploma offers a broad curriculum, which seeks to develop students who have excellent breadth and depth of knowledge.

The IB is primarily oriented towards students with university entrance (particularly overseas) in mind, who value its international recognition and the slightly different educational emphasis of the IB. (But don't assume that the HSC is not internationally recognised.)

The IB Diploma curriculum is far more prescriptive than the HSC and so subject choice is much simpler. Its curriculum is made up of an IB Diploma Core¹ and one subject from each of six subject groupings.

- language and literature (in students' first language)
- a second language
- mathematics
- science
- individuals and societies
- arts

However, students may opt to study an additional science, individuals and societies, or language course, instead of a course in the arts.

Students will take some subjects at higher level (HL) and some at standard level (SL).

Each student takes at least three (but not more than four) subjects at higher level, and the remaining at standard level.

The nature of HL and SL courses

The philosophy of the IB Diploma is that students should engage with a range of subjects while being able to explore specific areas of personal interest in greater depth. SL courses ensure students are exposed to a wide range of disciplines while HL courses allow students to spend more time with subjects they are more interested in by exploring options in addition to the SL core.



1. The **Core** has three components – the theory of knowledge; an extended essay; and 150 hours of community service, sport or other activity and a creative pursuit.

Assumed knowledge is not a formal barrier to entry. Universities will let you in regardless. It's your choice, but there are dangers to be aware of ...



Apart from the mathematics requirement for many University of Sydney courses, ANU's relatively low-key maths requirements, with few other exceptions there are no subject prerequisites for university entry in NSW or the ACT, other than English which is a requirement for the HSC and an ATAR.

Instead, universities specify 'assumed knowledge' in terms of HSC subjects. This is the academic starting point or foundation for their courses.

In our view, you should regard assumed knowledge as a requirement for entry.

Whether it is prerequisites or assumed knowledge, your subject choices for your HSC determine the university, pathway and other courses that you are prepared for, as well as the ones that may be inappropriate for you and in which you may struggle to cope.

Studying interstate

In other states universities have real prerequisites rather than the optional 'assumed knowledge'. They won't let you in if you don't have the required background.

Mathematics, Chemistry and perhaps Physics are very often required for entry interstate, especially at the most prestigious universities. If you are thinking of applying interstate, perhaps for commerce, engineering, science, medicine or dentistry, be aware that prerequisites may be barriers to entry.

Amidst all the detail of prerequisites and assumed knowledge for university courses, in the end the only really significant decisions are the level of English, the level of Mathematics, and whether or not you do one of Chemistry or Physics.



1-english

English is the only compulsory subject for the HSC. You must complete 2 units of a Board Developed English course.

The courses that are available to meet the English requirement for the HSC and ATAR are:

- English Standard
30,635 students in 2019
- English Advanced
25,366 students in 2019
- English as a Second Language
2,180 (eligibility criteria apply)¹.
- English Studies, now a Board Developed Course (Category B) with an optional ATAR exam from 2019 HSC. 8,577 in 2019

In addition, a non-ATAR eligible course, English Life Skills, is offered for students with special education needs (1,712 students in 2019). The course does satisfy the English requirements for the HSC, but not for an ATAR.

In terms of prerequisites or assumed knowledge it doesn't really matter which of the ATAR eligible English courses you choose. It is more a question of your interests and abilities. But since your English results necessarily make up 20 per cent of your ATAR calculation, it is an important choice – and one in which bonus points are a consideration.

English Studies

English Studies is the least challenging English course, with an emphasis on developing communication skills – previously a non-ATAR course for students not destined for higher education.

English Standard

The English (Standard) course is designed for students who prefer contemporary texts rather than Shakespeare and the classical works.

1. The English (ESL) course may be studied by any student who has been educated overseas or in an Australian educational institution with English as the language of instruction for five years or less prior to commencing the Preliminary course.

English Advanced

The emphasis of the English Advanced course is on the analysis and evaluation of texts in their particular contexts. It requires a greater depth of study of the ideas and values in literature than English Standard. The advanced course includes both contemporary texts and the classic literary works, and requires a creative and sophisticated use of language in presenting your own ideas and analyses.

English Extension

Students undertaking English Advanced may choose, in addition, to study:

- the Preliminary English Extension course (1 unit)
- the HSC English Extension 1 course (1 unit) – if they have completed the Preliminary Extension course
- the HSC English Extension 2 course (1 unit) – if they are also studying the HSC Extension 1 course.

These are genuinely advanced courses for students who enjoy reading, analysing and discussing a range of texts in depth.

‘If you have difficulty with English, you should choose English Standard. It is still possible to achieve a Band 5 in Standard. The texts are contemporary and there is no compulsory study of Shakespeare.’

Vivien O’Leary
Trinity Catholic College
Lismore

In Extension 1, students examine the terature of a particular historical period and consider how certain texts (and films) become enduring icons.

English Extension 2 requires the completion of a major work – for instance a short story or video – together with a journal and reflection statement.

In 2019, of the 25,366 students undertaking English Advanced, 3,548 took English Extension 1 and 1,334 took English Extension 2.

2-mathematics

Not compulsory for the HSC

Mathematics is not compulsory for the HSC. But the problem is that you will not be ready for quite a number of university courses if you don't have Year 12 mathematics in one form or another.

Science, health, IT, finance and engineering courses generally require some level of HSC mathematics, as do many business courses.

Nevertheless, there are still many courses that don't require mathematics in arts, business, law, the creative arts and communication that may be just right for you. You just need to be careful and consider the consequences if you choose not to take mathematics.

Board-developed mathematics courses of study are:

- **Standard** (Year 11)
- **Standard 1,2** (Year 12)
- **Advanced**
- **Extension 1**
- **Extension 2** and
- Mathematics Life Skills (non ATAR).

Mathematics Standard

Mathematics Standard students will study a common Year 11 course which leads to the Mathematics Standard 1 Year 12 and Mathematics Standard 2 Year 12 courses.

Students studying Mathematics Standard 1 may elect to undertake an optional HSC examination and the subject may then be used to contribute to an ATAR. Mathematics Standard 2 is a standard ATAR approved course with an external HSC examination.

Perhaps the distinguishing feature of Mathematics Standard is that, unlike Mathematics Advanced, it does not include calculus. According to the NSW Education Standards Authority (NESA) 'Mathematics Standard 2 is designed for those students who are not seeking the in-depth knowledge of higher mathematics that the study of calculus would provide. This course offers students the opportunity to prepare for a wide range of educational and employment aspirations, including continuing their studies at a tertiary level.'

Although Mathematics Standard 2 is a minimum standard for many courses, it is in itself a rigorous course and not suited to students who have struggled with the higher levels of maths in Year 10.

Mathematics Advanced

The Mathematics Advanced course provides a basis for further studies in disciplines in which mathematics has an important role, particularly the sciences, business, finance and technology.

It is designed for those students whose future pathways may involve mathematics and its applications in a range of disciplines at the tertiary level.

Whilst the Advanced designation makes Mathematics Advanced seem more confronting than the old Mathematics, it just brings the name in line with the way English courses are labelled. The level and content are not dramatically different from the old Mathematics – it is essentially an extension of the previous Mathematics syllabus to incorporate financial mathematics and statistics.

A bridging course cannot compare to studying a subject for two years during high school. You will be starting from behind and may struggle to keep up.

You should be guided by the prerequisites and assumed knowledge provided by universities.

Mathematics Extension

For students who require substantial mathematics at a tertiary level, NESAs recommends that they undertake one or both of the Stage 6 Mathematics Extension courses.

‘The Mathematics Extension 1 course provides students with the opportunity to develop a thorough understanding and competence in aspects of mathematics for further studies in mathematics itself, and in such areas as physics, chemistry, engineering, statistics, and computer science.’

Or maybe you just love mathematics and want to take it to the next level. That’s the best motivation of all. Go for it!

3-chemistry

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the 3 crucial decision points: chemistry

You would think you would need Chemistry or Physics for science degrees.

However, science degrees are broadly based and you could generally get in with one of Biology, Chemistry, Mathematics Advanced or Physics.

But getting in might not be good enough. What will you do when you get there?

You might, for instance, be specialising in mathematics or psychology, for which chemistry is not necessarily relevant.

But for many of the options within science degrees, chemistry is a crucial foundation and an important subject to study along with any other specialisations.

The environmental sciences, geology, the medical sciences and biochemistry/physiology are all underpinned by chemistry. In addition, physics is important for engineering as well as for a number of health courses, particularly medical radiation science.

‘ ... I love chemistry for the power that it gives me to understand what is happening in the world – whether the use of food additives, landfill and the leaching of heavy metals, the salinity of our soil and rivers, herbal medicines, ethanol in your petrol, and home brewing!

It’s all chemistry.’

Wayne Davies
Consulting Engineer

HSC subject adjustment factors add to your ATAR - in some cases up to 10 - but they are complex, inconsistent and subject to change. It would be tragic to allow them to interfere with your subject choices except in terms of English Advanced, Mathematics Advanced and the possibility of extension courses.

The mass of detail associated with HSC subject bonus adjustments across all universities adds a level of complexity that is almost impossible to come to terms with. There are 27,800 possibilities, and the problem is that there are very few readily understandable patterns or rules of thumb that enable you to get a feel for it all.

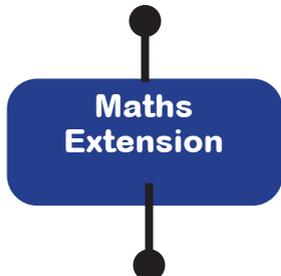
However, there are a lot more bonus points on offer at Macquarie, UTS, Sydney, UNSW and Wollongong for good results in **English Advanced** compared to English Standard – and it would be pretty obvious that Mathematics Standard wouldn't deliver bonus points of any consequence compared to **Mathematics Advanced**.

In addition, good results in extension courses deliver significant bonus points across most universities. Year 11 gives you the opportunity of exploring **extension courses** in English and Mathematics, and your results in Year 11 will help you decide whether extension courses in Year 12 are a sound option or not.

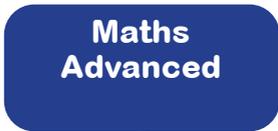
The only really good thing about adjustment factors is that, in these key instances, they discourage the 'dumbing down' of HSC subject choice in an attempt to increase the ATAR. **This all reinforces the general advice – if you are interested and good at it, do it, and the ATAR (or at least the ATAR plus adjustment factors) will follow.**

Philip Coyte
Editor

You should have Physics + Maths Extension for:
engineering Sydney, UNSW, UTS



you should have Maths Extension for:
actuarial studies
computer science
UNSW, Sydney (adv.computing)
data science UNSW
engineering Sydney, UNSW, UTS



you should have Maths Advanced for:
engineering ANU, Macquarie, Newcastle, Western Syd., Wollongong
many health courses including biomedical/medical science, optometry, medical imaging/radiation, pharmacy, psychology (UNSW, Newcastle, Sydney), veterinary and dentistry, medicine (Sydney)
most science and many environmental degrees
commerce, business, economics and computer science/information technology at most universities
architecture Sydney, UTS, Western Syd. (but not UNSW or Newcastle)

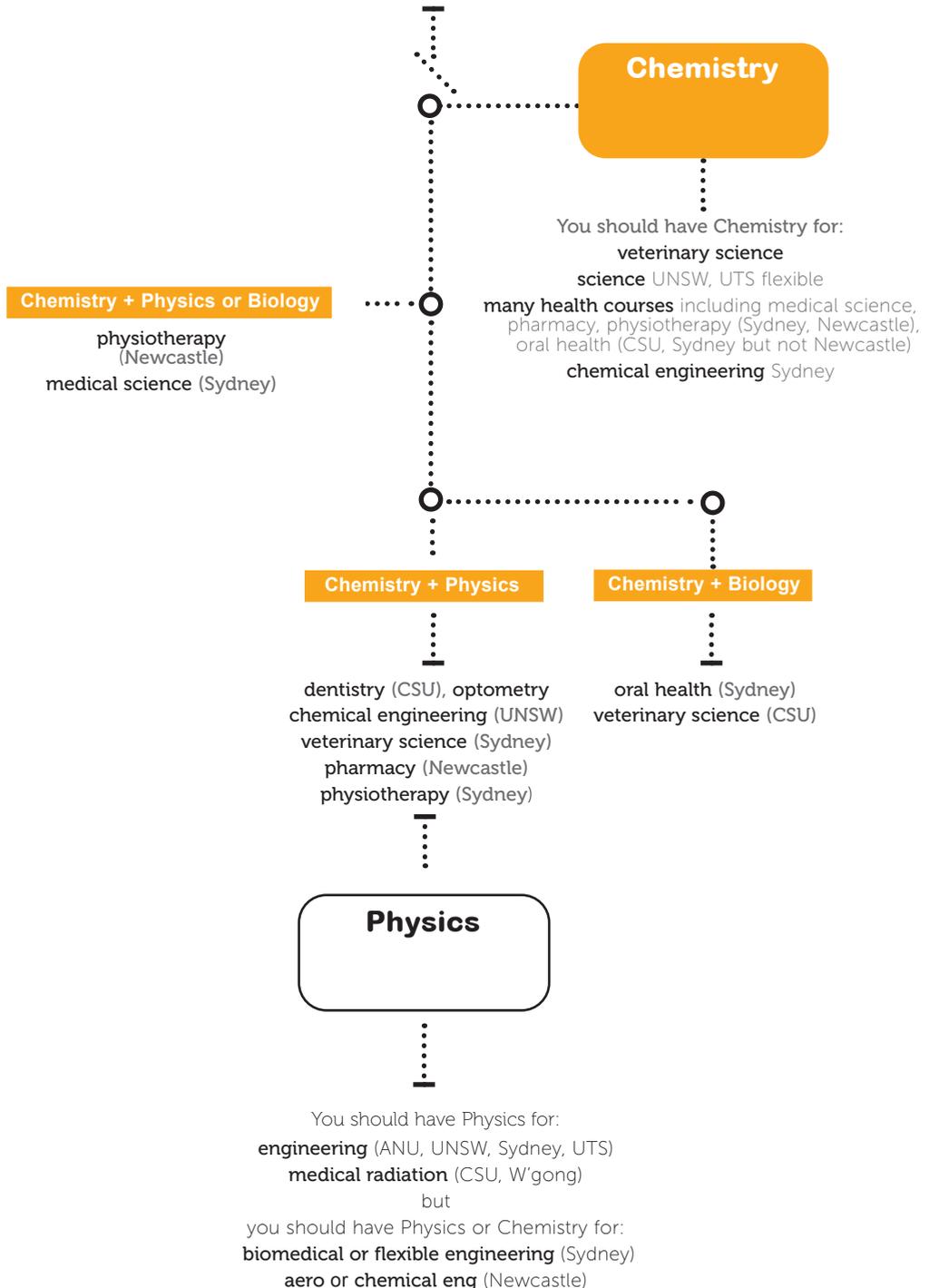


You don't need Chemistry for:

medicine UNSW, Newcastle, Western Syd or Sydney

physiotherapy ACU, CSU or West.Syd.

health courses like nursing, occupational therapy, speech pathology or most podiatry



agriculture and environment

The prerequisites for agriculture and environment courses are not as demanding as you might expect.

Nevertheless, it could seriously limit your opportunities to undertake a degree in agriculture or environmental studies without Chemistry as a starting point.

Agriculture and the environment are very broad fields – but chemistry (and perhaps mathematics) is the foundation of both. For instance, despite the overall prominence of global warming as THE environmental issue, the major Australian environmental challenges are the interrelated issues of water and land (including salinity, soil acidity and erosion). You need the scientific and quantitative/mathematical skills for assessing and monitoring the environment in a great variety of contexts (land, vegetation and water resources specifically).

And then there is the whole field of pollution – whether agricultural, industrial, transport or other varieties – and it generally comes down to chemistry in the analysis of the problem and in its remediation.

Of course, both agriculture and environmental studies go beyond the science and field work.

You need to link the science with the business and political dimensions of both agriculture and environmental management. Just think about the contention surrounding the Murray-Darling or the Great Barrier Reef. So degrees in law, economics, engineering and planning go hand in hand with credentials in agriculture or environmental studies.



Note for IB students

IB Mathematics: Applications and Interpretations SL = **Mathematics Standard 2**

IB Mathematics: Analysis and Approaches SL = **Mathematics Advanced**

IB Mathematics: Applications and Interpretations HL = **Mathematics Advanced**

IB Mathematics: Analysis and Approaches HL = **Mathematics Extension 2**

- single degrees only
- (n.a.) = multiple selection criteria other than just ATAR, or else no offers made.
- P = HSC mathematics advanced prerequisite
- 2020 Selection Rank is listed for each course. Selection Rank is ATAR plus adjustments by universities for location/equity and course specific HSC subjects.
- <5 = less than 5 offers made

■ no assumed, other than english

ANU (prereq. any Yr 11/12 maths)
B Environment and Sustainability (80.15)

Charles Sturt University

B App Sc (Parks, Rec & Heritage) (62.85)
B Environmental Science & Management (<5)
B Agricultural Business Management (66.30)

Macquarie University

B Biodiversity & Conservation (81.50)
B Environment (85.35)
B Marine Science (78.45)

Southern Cross University

B Environmental Science (n.a.)
B Forest Science and Management (n.a.)
B Marine Science & Management (63.10)
B Science (n.a.)

University of New England

B Agribusiness (80.90)
B Business (n.a.)
B Sustainability (n.a.)

University of Newcastle

B Coastal and Marine Science (63.40)

+ chemistry + mathematics advanced

Charles Sturt University Wagga
B Animal Science (68.90)

University of NSW

B Environmental Management (80.10)

University of New England

B Animal Science (n.a.)
B Environmental Science (n.a.)
B Rural Science (n.a.)

+ mathematics advanced

University of New England

B Science (n.a.)

University of Newcastle

B Coastal and Marine Science (63.75)
B Science (62.20)

University of Sydney P

B Science (80.05)

University of Wollongong

B Science (Atmospheric Science) (<5)

+ maths adv + biology or chemistry

University of Newcastle

B Environmental Sc & Mgt (63.75)

+ maths adv. + biology or chemistry or geography or earth & env science

University of Wollongong

B Environmental Science (85.35)

+ maths adv. + any 2 units of science

UTS

B Environmental Biology (73.40)
B Marine Biology (79.90)
B Science (Environmental Sciences) (73.45)

University of Wollongong

B Conservation Biology (85.35)
B Geography (78.70)
B Marine Science (Hons) (85.35)
B Science (75.55)

+ maths advanced or physics or chemistry depending on major

ANU (prereq. any Yr 11/12 maths)

B Science (80.15)

+ mathematics advanced or none depending on majors

Macquarie University

B Science (75.05)

+ maths adv. + chemistry + biology

Charles Sturt University Wagga

B Equine Science (68.15)

+ mathematics standard 2 and investigating science

Charles Sturt University Wagga

B Agricultural Science (65.10)
B Agriculture (65.15)

+ maths adv + chemistry + one of biology, earth & env sc, physics or maths ext 1

University of NSW

B Science (85.05)

+ maths ext 1 and chemistry

UTS

B Science (Flexible) (75.70)

+ any two units of maths

University of New England

B Agriculture (81.60)

+ 2 units of maths + 2 units science

Western Sydney University Hawkesbury

B Science (Animal Science) (70.90)

built environment

The built environment specialisations – architecture, interior design, planning and landscape architecture – offer a unique combination of the visual arts, science and the humanities. They are a way of integrating an interest in any of those disciplines within a professional qualification.

■ no assumed, other than english

Macquarie University

B Planning (76.10)

University of NSW

B Architectural Studies (preprof) (95.00)

B City Planning (80.70)

B Computational Design (82.30)

B Construction Management & Property (80.00)

B Landscape Architecture (80.40)

University of New England

B Urban and Regional Planning (n.a.)

University of Newcastle

B Construction Mgt (Building) (62.85)

B Design (Architecture) preprofess. (80.85)

Western Sydney University

B Building Design Management (71.45)

B Construction Management (72.10)

B Planning/M Urban Mgt & Planning (81.35)

B Construction Management (70.80)

B Construction Management St./B Laws (<5)

B Construction Technology (<5)

■+ mathematics advanced

UTS

B Construction Project Management (90.45)

B Design in Architecture (preprofess.) (91.45)

B Landscape Architecture (80.00)

University of NSW

B Commerce combined degrees (95.00)

University of Newcastle

B Engineering (Hons) Surveying (<5)

University of Sydney

B Design Architecture/M Architecture (97.05)

B Design in Architecture (preprof.) (95.00)

■+ mathematics advanced

University of Sydney

B Architecture and Environments (preprof.) (85.00)

■+ mathematics ext 1

University of Sydney

B Project Management (86.35)

■+ maths ext 1 and physics

University of NSW

B Engineering (Civil with Architecture) (95.45)

■+ maths ext 1 + chemistry or physics

University of Sydney

B Engineering/B Project Management (92.05)

■+ maths ext 1 + physics

University of Sydney

B Engineering (Civil)/B Design in Architect (95.15)

■+ science or maths advanced

Western Sydney University

B Architectural Design (preprofessional) (85.15)

■+ see single degree entries

University of NSW

Combined Law degrees (ATAR + admission test) (n.a.)

business

You are not required to have done either Economics or Business Studies for a business degree. It's only a question of whether you take mathematics, and at what level.

So what do you make of this?

There is a breadth of subject areas within business degrees which may require differing levels of quantitative/mathematical skills. Management and human resource management, for instance, tend to be less quantitative than finance or marketing.

And even within particular subject areas of business (such as marketing or economics) there are differing approaches, some of which may be quantitative/mathematical and others which may be more descriptive/analytical without requiring high powered mathematical techniques.

1. Your ability to cope with a high level of mathematics will depend on the level of mathematics you studied in junior school.

Our view is that it would limit your options in business degrees not to have at least HSC Mathematics Advanced. Given that so much of business analysis is based on data/quantitative information, you should take the highest level of mathematics that you are comfortable with if you are contemplating a business degree - even if most universities don't require it for entry to their degrees.¹

no assumed, other than english

Australian Catholic University

B Accounting and Finance (60.65)
B Business Administration (58.80)
B Business Administration/B Laws (71.95)
B Commerce (58.95)
B Commerce/B Laws (71.15)

ANU (prereq. any Yr 11/12 maths)

B Business Administration (<5)

Southern Cross University

B Accounting (n.a.)
B Business Convention and Event Mgt (n.a.)
B Business in Tourism & Hospitality (n.a.)
B Digital Business (n.a.)

UTS

B Management (Digital Creative Enterprise) (81.05)
B Management (Events) (80.15)
B Management (Sport Business) (80.00)
B Management (Tourism) (80.40)

University of NSW

B Construction Management & Property (80.00)

University of New England

B Accounting (n.a.)
 B Business (n.a.)
 B Business/B Laws (n.a.)
 B Economics (n.a.)
 B Economics/B Laws (n.a.)
 B International Studies (n.a.)

University of Notre Dame

B Accounting (n.a.)
 B Business Administration (n.a.)
 B Commerce (n.a.)
 B Commerce/B Laws (n.a.)
 B Human Resource Management (n.a.)
 B Marketing & Public Relations (n.a.)
 B Marketing & Public Relations/B Laws (n.a.)

University of Wollongong

B Business (70.05)
 B Commerce (75.50)
 B Commerce (Events) with TAFE (75.50)
 B Commerce (Hospitality Mgt) (Travel & Tourism) with TAFE (75.50)
 B Commerce/B Laws (90.00)
 B Politics Philosophy and Economics (78.20)
 B Politics Philosophy and Economics/B Laws (90.00)

Western Sydney University

B Sport Development (70.85)
 B Tourism Management (<5)

+ mathematics advanced

ANU (prereq. any Yr 11/12 maths)
 B Accounting (<5)
 B Commerce (86.15)
 B Economics (88.15)
 B Finance (<5)
 B International Business (<5)
 B Politics, Philosophy and Economics (96.90)

Charles Sturt University

B Accounting (<5)
 B Business (Management) (<5)
 B Business (Marketing) (<5)

Macquarie University

B Applied Finance (<5)
 B App Finance/B Laws (96.75)
 B Economics (80.55)

Southern Cross University

B Business (n.a.)
 B Business/B Laws (n.a.)

UTS

B Accounting (n.a.)
 B Business (87.00)
 B Business/B Laws (96.10)
 B Construction Project Management (90.45)
 B Economics (82.10)
 B Economics/B Laws (96.50)
 B Property Economics (80.00)
 B Sport and Exercise Management (77.15)

University of NSW

B Commerce (95.00)
 B Commerce (Co-op) (n.a.)
 B Commerce (International) (97.00)
 B Commerce combined degrees (95.00)
 B Economics (93.05)
 B Politics Philosophy and Economics (96.40)

University of New England

B Languages & International Business (n.a.)

University of Newcastle

B Business (65.00)
 B Commerce (65.10)

University of Wollongong

B Economics & Finance/B Laws (90.00)
 B Economics and Finance (81.60)
 B Mathematics and Finance (75.50)

+ mathematics advanced or mathematics standard 2 (depending on major)**Macquarie University**

B Commerce (80.05)
 B Commerce/B Laws (96.00)

+ mathematics advanced**University of Sydney** 

B Commerce (95.00)
 B Economics (90.10)

+ mathematics ext 1**Macquarie University**

B Actuarial Studies (97.00)

University of NSW

B Actuarial Studies (97.10)



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+ mathematics standard 2

Macquarie University

- B Business Administration (80.20)
- B Business Administration/B Laws (96.00)
- B Marketing and Media (95.05)
- B Prof Accounting/B Laws (<5)
- B Professional Accounting (<5)

University of NSW

- B Psychological Science (87.05)

Western Sydney University

- B Accounting (<5)
- B Accounting/B Laws (<5)
- B Business (70.55)
- B Business (Accounting) (70.15)
- B Business (App.Finance) (71.65)
- B Business (Economics) (72.30)
- B Business (App.Finance) (<5)
- B Business (Hospitality Mgt) (70.60)
- B Business (HRM) (71.60)
- B Business (International Business) (<5)
- B Business (Management) (70.25)
- B Business (Marketing) (71.30)
- B Business (Property) (70.45)
- B Business (Sport Mgt) (70.30)
- B Business/B Laws (99.95)

+ maths ext 1 prerequisite

ANU

- B Actuarial Studies (99.95)
- B Finance Economics and Statistics (<5)
- B Statistics (<5)

+ any two units of maths

University of New England

- B Agricultural & Resource Economics (n.a.)

+ see single degree entries

ANU (prereq. any Yr 11/12 maths)

- B Laws combined degrees (98.00)
- Combined degrees (cut-off 80+ depending on combination) (80.10)

University of NSW

- Combined Law degrees (ATAR + admission test) (n.a.)

University of Newcastle

- B Laws (Combined Degs) (92.10)

University of Sydney

- Combined Law - Arts, Commerce, Economics Engineering and Science/Laws (99.50)

Business, Commerce, Management or Business Administration?

There is not much that you can tell from the degree title. It's largely about status.

The older universities tend to have Commerce degrees; the newer ones Business degrees.

But when an institution offers both Commerce and Business degrees, they may overlap so much that the supposed distinction is a marketing contrivance more than anything else, with the Business degree more likely to have a lower Selection Rank.

Management and Business Administration degrees are usually broader and less likely to specialise.



communication

There are no prerequisites for communications degrees. You don't have to worry about it, except for a few courses that use a range of criteria for selection such as a folio, supplementary information or interview.

The only thing to think about is whether you integrate any other specialisation within a communications degree or combine another degree with your communications degree.

Communications is often studied as one specialisation within a broader degree, like arts or business. In addition, the majority of specialist communications degrees give you the flexibility to specialise in areas beyond communication.

An additional, relevant speciality could increase your chances of actually working in communications. For instance, your chances of working in business communications would be greatly increased by a specialisation in marketing, economics or accounting; a specialisation in environmental studies, IT or social work might open up all sorts of additional opportunities. So it could be worthwhile to be aware of the prerequisites for those sorts of courses, even if you don't have to worry about prerequisites for communications degrees themselves.

- single degrees only (except law and teaching)
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- P = HSC mathematics advanced prerequisite
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- <5 = less than 5 offers made

no assumed, other than english

Australian Catholic University

B Visual Arts and Design (58.55)

ANU

B Design (n.a.)

B Visual Arts (n.a.)

Charles Sturt University

B Communication (<5)

B Communication (Advertising & Public Relations)
(Advertising) (Journalism & Int. Studies)
(Journalism) (Public Relations) (Radio) (Screen
& Media) (<5)

B Creative Industries (60.50)

B Sports Media (<5)

Macquarie University

B Arts (75.15)

B Media and Communications (75.00)

Southern Cross University

B Arts (n.a.)

B Digital Media and Communications (n.a.)

UTS

B Communication (Creative Writing) (74.10)

B Communication (Journalism) (80.50)

B Communication (Media Arts & Prod.) (86.60)

B Communication (Public Communication) (80.40)

B Communication (Social & Political Sc) (74.15)

B Design in Animation (96.25)

B Design in Visual Communication (92.25)

University of NSW

B Arts (80.20)

B Media (Communication & Journalism) (85.75)

B Media (Public Relations & Advertising) (84.40)

B Media (Screen and Sound Production) (85.15)

B Media Arts (80.10)

University of New England

B Arts (n.a.)

B Arts/B Business (n.a.)

B Media and Communications (n.a.)

University of Newcastle

B Arts [Central Coast] (67.45)

B Arts [Newcastle] (62.35)

B Communication (64.10)

B Creative Industries (62.90)

University of Notre Dame

B Advertising and Public Relations (n.a.)

B Arts (n.a.)

B Arts (Politics & Journalism) (n.a.)

B Arts/B Laws (n.a.)

B Commerce (n.a.)

B Communications and Media (n.a.)

B Marketing & Public Relations (n.a.)

University of Sydney

B Visual Arts (n.a.)

University of Wollongong

B Arts (70.80)

B Commerce (75.50)

BB Communication and Media (70.15)

B Creative Arts (Creative Writing) (70.15)

B Journalism (72.55)

Western Sydney University

B Communication (72.75)

B Creative Industries (<5)

B Screen Media (Arts & Production) (79.95)

+ mathematics advanced or physics or chemistry depending on major

ANU (prereq. any Yr 11/12 maths)

B Science (80.15)

+ mathematics standard 2

Macquarie University

B Marketing and Media (95.05)

Note: see Law (pages 40-41) for combined law degrees.

design and visual arts

Design and visual arts are now less on the sidelines and far more integrated into mainstream, IT-enabled activities of people and businesses.

Design and visual arts are now an integral part of our digital existence, whether for entertainment, communication or work. They have a relevance they have never had before.

Not only are there so many courses that formally integrate information and technology with design – such as a Bachelor of Design (Games) – but the visual arts themselves are breaking beyond their traditional forms and boundaries via the enabling power of IT and multimedia.

no prerequisites

Perhaps this is why there are virtually no prerequisites for entry to design and visual arts courses. Only a handful of design and visual arts courses formally require a background in the visual arts at the HSC.

Nevertheless, while most courses have no prerequisites for entry, it's not quite what it seems. You are likely to find multiple selection criteria for entry, not just an ATAR.

So where you see that selection is based on multiple criteria - listed as (n.a.) in our accompanying listings - you might as well interpret it as requirements or a body of work in the relevant field. It doesn't necessarily mean a HSC sequence, but it might as well.

■ no assumed, other than english

Australian Catholic University

B Arts (58.50)
B Visual Arts and Design (58.55)

ANU

B Art History and Curatorship (<5)
B Design (n.a.)
B Visual Arts (n.a.)

Charles Sturt University

B Communication (Digital Media Production) (<5)
B Creative Industries (Design & Visual Arts) (<5)

Macquarie University

B Arts (75.15)
B Arts/B Laws (96.20)
B Games Design & Development (77.15)
B Media and Communications (75.00)
B Media and Communications/B Laws (98.60)

National Art School

B Fine Art (Full fee) (n.a.)

Southern Cross University

Lismore
B Art and Design (n.a.)
B Arts (n.a.)
B Arts/B Laws (n.a.)
B Digital Media and Communications (n.a.)

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- P = HSC mathematics advanced prerequisite
- 2020 Selection Rank is listed for each course. Selection Rank is ATAR plus adjustments by universities for location/equity and course specific HSC subjects.
- <5 = less than 5 offers made

UTS

B Communication (Digital/Social Media) (78.05)
 B Communication (Digital & Social Media)/B
 Laws (<5)
 B Communication (Media Arts & Prod.) (86.60)
 B Communication (Media Arts & Production)/B
 Laws (96.05)
 B Design in Animation (96.25)
 B Design in Fashion & Textiles Design (98.10)
 B Design in Interior Architecture (85.45)
 B Design in Photography (<5)
 B Design in Product Design (91.95)
 B Design in Visual Communication (92.25)
 B Management (Digital Creative) (81.05)
 B Music and Sound Design (71.15)

University of NSW

B Industrial Design (81.40)
 B Interior Architecture (80.05)
 B Media (Screen & Sound Production) (85.15)
 B Media Arts (80.10)

University of Newcastle

B Creative Industries (62.90)
 B Visual Communic Design (64.95)

University of Sydney

B Visual Arts (n.a.)

University of Wollongong

B Arts (70.80)
 B Arts/B Laws (90.00)
 B Communication Media Studies/B Laws (90.00)
 B Communication and Media (70.15)
 B Creative Arts (Visual Arts & Design) (70.15)
 B Creative Arts (Visual Arts) (70.15)
 B Creative Arts/B Laws (90.00)
 B Information Technology (75.65)
 B Information Technology/B Laws (90.80)

Western Sydney University

B Creative Industries (<5)

+ design & technology

Western Sydney University

Parramatta
 B Industrial Design (<5)
 B Industrial Design (Honours) (<5)

+ mathematics advanced

Southern Cross University

B Information Technology (n.a.)

UTS

B Science in Games Development (83.80)

University of NSW

B Commerce combined degrees (95.00)

University of Sydney

B Design Computing (80.15)

‘There is quite a debate about it, but I would argue that the visual skills and discipline of drawing and painting are the foundation of your capabilities in the new (digital) media.’

Charles Cooper,
 Lecturer, National Art School

+ mathematics advanced or none depending on majors

Macquarie University

B Science (75.05)
 B Science/B Laws (<5)

+ mathematics standard 2

Macquarie University

B Marketing and Media (95.05)

+ visual arts

University of NSW

B Design (80.00)
 B Fine Arts (80.10)

+ visual arts or design & technology

Western Sydney University

B Design (Visual Communication) (70.70)

+ any two units of maths

Western Sydney University

B Graphic Design/M Teaching (Secondary) (<5)

+ see single degree entries

ANU (prereq. any Yr 11/12 maths)
 Combined degrees (cut-off 80+ depending on combination) (80.10)

University of NSW

Combined Law (ATAR + admission test) (n.a.)

+ two of design & technology visual arts, physics or maths advanced

Western Sydney University

B Design and Technology (70.35)

education

New Australian accreditation standards for education courses require graduates to be in the ‘top 30% of the population for English and Maths on graduation from a teacher education program’.

The requirement that students be in the top 30% on graduation gives universities some wiggle room. But if they select students who do not meet this requirement, they must establish satisfactory arrangements to ensure that those students are supported to achieve the required standard before graduation.

In NSW, a minimum standard of three Band 5 HSC results, including one in English, applies to undertaking an accredited undergraduate teaching degree.

Alternatively students may enrol in an accredited degree and pass a full year of academic studies in the subjects they will teach.

■ no assumed, other than english

Australian Catholic University

B Teaching/B Arts - (Humanities) (60.55)
B Teaching/B Arts - (Sec-Technology) (62.95)
B Teaching/B Arts - (Visual Arts) (<5)

Charles Sturt University

B Education (Early Child & Primary) (n.a.)
B Education (K-12) (n.a.)
B Outdoor Education (n.a.)
B Education (Technology & Applied) (n.a.)

Macquarie University

B Arts/B Education (Primary) (n.a.)
B Arts/B Education (Secondary) (n.a.)
B Commerce/B Education (Secondary) (n.a.)
B Education (Primary)/B Psychology (n.a.)
B Teaching (Early Childhood) (n.a.)

Southern Cross University

B Arts/B Education (Primary) (Primary/Early Childhood) (Primary/Secondary) (Secondary) (n.a.)
B Technology/B Education (Secondary) (n.a.)

UTS

B Arts/B Education (Primary) (70.65)
B Arts/B Education (Secondary) (73.50)

University of NSW

B Arts/B Education (Secondary) (80.00)
B Media Arts/B Education (Secondary) (<5)

University of Newcastle

B Education (Early Child and Primary) (64.75)
B Education (Health & Physical Education) (62.10)
B Education (Primary) (63.60)
B Education (Secondary) (Humanities) (64.10)
B Education (Secondary) (STEM) (62.45)



Note for IB students

IB Mathematics: Applications and Interpretations SL = **Mathematics Standard 2**

IB Mathematics: Analysis and Approaches SL = **Mathematics Advanced**

IB Mathematics: Applications and Interpretations HL = **Mathematics Advanced**

IB Mathematics: Analysis and Approaches HL = **Mathematics Extension 2**

- single degrees only (except law and teaching)
- (n.a.) = multiple selection criteria other than just ATAR, or else no offers made.
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- <5 = less than 5 offers made

University of Notre Dame

B Arts/B Education (Secondary) (n.a.)
 B Education (n.a.)
 B Education (Birth to 12 years) (n.a.)
 B Education (Primary) (n.a.)
 B Education and Business Studies (n.a.)

University of Sydney

B Education (Early Childhood) (77.45)
 B Education (Health and Physical) (80.25)
 B Education (Humanities Soc Sc)/B Arts (80.15)
 B Education (Primary) (82.35)

University of Wollongong

B Education: Early Years (<5)
 B Health and Physical and Education (75.50)
 B Primary Education (75.25)
 B Psychological Science or B Social Science
 (pathway to Primary Teaching) (<5)

Western Sydney University

B Health Sc (Health & Phys Ed)/M Teaching
 (76.90)

+ mathematics advanced

Australian Catholic University

B Teaching/B Arts - (Mathematics) (60.75)

University of NSW

B Commerce/B Education (Secondary) (<5)
 B Economics/B Education (Secondary) (94.10)

University of Sydney P

B Education (Secondary:Maths)/B Sc (80.20)
 B Education (Secondary:Science)/B Sc (84.00)

University of Wollongong

B Mathematics Education (73.30) P
 B Science Education (<5)

Western Sydney University

B Business/M Teaching (Primary or Secondary) (<5)

+ mathematics advanced or none depending on majors

Macquarie University

B Science/B Education (Secondary) (n.a.)

+ mathematics ext 1

University of New England

B Education (Secondary Mathematics) (n.a.)

+ mathematics standard 2

Australian Catholic University

B Early Childhood (Birth- Five) (60.35)
 B Education (Early Child & Primary) (74.75)
 B Education (Primary) (60.00)

It's fine to do so, especially for physical and health education, but you don't have to worry about choosing teaching at the very start.

The majority of students in teacher education programs enter after completing another degree.

+ maths adv + chemistry and biology, earth & env sc, physics or maths ext 1

University of NSW

B Science/B Education (Education) (85.20)

+ visual arts

University of NSW

B Design (Honours)/B Education (80.40)
 B Fine Arts/B Education (81.55)

+ any four units of science

University of New England

B Education (Secondary Science) (n.a.)

+ any two units of maths

University of New England

B Education (Early Childhood & Primary) (n.a.)
 B Education (K-12) (n.a.)
 B Education (K-6) (n.a.)
 B Education (Secondary Arts) (n.a.)
 B Special and Inclusive Education (Primary) (n.a.)

Western Sydney University

B Arts/M Teaching (Birth - 12 years) (<5)
 B Arts/M Teaching (Primary) (75.20)
 B Arts/B Teaching (Secondary) (80.35)
 B Graphic Design/M Teaching (Secondary) (<5)

2 units of maths + 2 units science

Western Sydney University

B Science/M Teaching (Primary or Secondary) (<5)

engineering

There are serious assumed knowledge issues for engineering. Without Mathematics Extension 1, engineering may not be for you at UNSW, UTS or Sydney.

But the crazy thing about engineering is specialisation at such an early stage. How do they expect you to choose from so many specialist engineering degrees when are you still at school? Boundaries are breaking down everywhere else, but engineering is manning the barricades.

The best thing to do could be to find an engineering degree that allows you to specialise as you work your way through it all, rather than specialising from the very beginning.

■ no assumed, other than english

Southern Cross University

B Engineering (Civil) (<5)
B Engineering - Coastal Systems (<5)

+ mathematics advanced

ANU

B Software Engineering (94.55)

University of Wollongong

B Engineering (Architectural) (80.35)
B Engineering (Biomedical) (80.35)
B Engineering (Civil) (80.35)
B Engineering (Computer) (80.35)
B Engineering (Electrical) (80.35)
B Engineering (Environmental) (80.35)
B Engineering (Materials) (80.35)
B Engineering (Mechanical) (80.35)
B Engineering (Mechatronics) (80.35)
B Engineering (Mining) (80.35)
B Engineering (Telecommunications) (80.35)
B Engineering/Flexible first year (80.35)
B Engineering/B Laws (90.00)

Macquarie University

B Engineering - Civil (80.85)
B Engineering - Electrical (80.40)
B Engineering - Electronic Engineering (<5)
B Engineering - Mechanical (80.35)
B Engineering - Mechatronic (80.15)
B Engineering - Software (80.10)

University of NSW

B Aviation (Flying) (n.a.)

University of Newcastle

B Engineering (Civil) (80.35)
B Engineering (Electrical/Electronic) (83.30)
B Engineering (Mechanical) (80.05)
B Engineering (Mechatronics) (82.90)
B Engineering (Software) (80.30)
B Medical Engineering (91.45)
B Renewable Engineering (92.95)

+ mathematics standard 2

University of NSW

B Aviation (Management) (80.60)

+ mathematics advanced + chemistry or physics

University of Newcastle

B Aerospace Engineering (80.25)
B Engineering (Chemical) (80.15)

+ mathematics advanced + any two units of science, physics

Western Sydney University

B Engineering (<5)
B Engineering (Civil) (81.10)
B Engineering (Mechanical) (85.80)

+ mathematics advanced + physics

ANU

B Engineering (91.50)

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+ mathematics ext 1

University of NSW

B Engineering (Software) (93.05)

University of Sydney P

B Project Management (86.35)

+ maths ext 1 + chemistry

University of NSW

B Engineering (Bioinformatics) (<5)

University of Sydney P

B Engineering (Chemical & Biomolecular) (92.30)

+ maths ext 1 + physics

UTS

B Engineering (Biomedical) (85.70)
 B Engineering (Civil & Env) (85.50)
 B Engineering (Civil) (85.30)
 B Engineering (Civil) (Construct) (85.25)
 B Engineering (Civil) (Struct) (87.15)
 B Engineering (Data Engineering) (81.60)
 B Engineering (Electrical & Electronic) (82.10)
 B Engineering (Electrical) (81.40)
 B Engineering (Electronic) (82.80)
 B Engineering (Flexible) (80.20)
 B Engineering (Mechanical) (83.05)
 B Engineering (Mech & Mechatronic) (86.15)
 B Engineering (Mechatronic) (83.05)
 B Engineering (Software) (83.00)

University of NSW

B Engineering (Aeronautical/Manufacturing/
 Mechanical/Naval) (93.40)
 B Engineering (Civil with Architecture) (95.45)
 B Engineering (Civil) (93.00)
 B Engineering (Civil)/B Surveying (93.35)
 B Engineering (Computer) (<5)
 B Engineering (Electrical or Telecom) (93.55)
 B Engineering (Environmental) (<5)
 B Engineering (Flexible first year) (93.00)
 B Engineering (Mechatronic) (93.00)
 B Engineering (Mining) (<5)
 B Engineering (Petroleum) (<5)
 B Engineering (Surveying) (<5)
 B Engineering/M Biomedical Eng (93.10)
 B Materials Science & Engineering (85.55)
 B Engineering (Photovoltaic, Solar, Renewable)
 (93.25)

University of Sydney P

B Engineering (Aeronautical) (92.75)
 B Engineering (Civil) (92.30)
 B Engineering (Civil)/B Design in Architect (95.15)
 B Engineering (Electrical) (92.60)
 B Engineering (Mechanical) (92.75)
 B Engineering (Mechatronic) (92.30)
 B Engineering (Software) (92.25)
 B Engineering (Space) (99.10)

'Mathematics underpins everything in engineering.'

But, in the end, it's maths plus your communication skills, so you should look for balance in your HSC. English, particularly, is just as strategically important.'

Professor Kris Ryan
 Monash University

+ maths ext 1 + chemistry or physics

University of Sydney P

B Engineering & IT (Flexible First year) (92.05)

University of Sydney P

B Engineering (Biomedical) (92.00)

+ maths ext 1 + chemistry + physics

University of NSW

B Engineering (Chemical) or (Chemical Product Engineering) (93.55)

+ see single degree entries

ANU (prereq. any Yr 11/12 maths)
 Flexible Double Engineering or Adv Computing
 (cut-of 87+ depending on combinations) (90.15)

University of NSW

Combined Law degrees (ATAR + admission tes

University of Sydney

Combined Law - Arts, Commerce, Economics
 Engineering and Science/Laws (99.50)

health

The prerequisites for health courses are all over the place.

However, it looks as if you would be covered for most health courses if you had chemistry and mathematics advanced – although physics may be assumed knowledge for courses in dentistry, optometry, physiotherapy and medical radiations.

■ no assumed, other than english

Australian Catholic University

- B Nursing (64.10)
- B Nutrition Science (59.40)
- B Paramedicine (97.65)
- B Physical Activity and Health Science (59.10)

Charles Sturt University

- B Health & Rehabilitation Science (<5)
- B Occupational Therapy (72.40)
- B Podiatric Medicine (<5)
- B Speech and Language Pathology (<5)

Macquarie University

- B Chiropractic Science (80.20)
- B Human Sciences (80.15)
- B Linguistics and Language Sciences (76.65)
- B Speech and Hearing Sciences (83.45)

Southern Cross University

- B Clinical Science (Osteopathic) (n.a.)
- B Occupational Therapy (n.a.)
- B Podorthotics (n.a.)
- B Podiatry (n.a.)
- B Speech Pathology (n.a.)

UTS

- B Health Science (73.35)
- B Midwifery (98.10)
- B Nursing (82.20)
- B Sport and Exercise Science (Exercise Therapy) (98.75)

University of NSW

- B International Public Health (<5)
- B Medical Studies/D Medicine or /B Arts (n.a.)

University of Newcastle

- B Food Sc & Human Nutrition (<5)
- B Medical Sc/D Medicine Joint Medical Program with UNE (n.a.)
- B Nutrition and Dietetics (73.20)
- B Occupational Therapy (89.05)
- B Oral Health (81.25)
- B Public and Community Health (65.75)
- B Speech Pathology (75.50)

University of Notre Dame

- B Medicine/B Surgery Grad entry only (n.a.)
- B Nursing (n.a.)

University of Sydney

- B App Sc (Diagnostic Radiography) (96.10)
- B App Science (Occupational Therapy) (93.50)
- B App Science (Speech Pathology) (93.05)
- B Arts/M Nursing (80.60)



Note for IB students

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IB Mathematics: Analysis and Approaches SL = **Mathematics Advanced**

IB Mathematics: Applications and Interpretations HL = **Mathematics Advanced**

IB Mathematics: Analysis and Approaches HL = **Mathematics Extension 2**

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- <5 = less than 5 offers made

University of Wollongong

B Nursing (70.00)
 B Public Health (75.95)
 B Social Science (70.00)

Western Sydney University

B Health Science (Health Promotion etc) (70.80)
 B Occupational Therapy (85.35)
 B Physiotherapy (90.40)
 B Podiatric Medicine (80.70)
 B Speech Pathology (80.10)
 B Traditional Chinese Medicine (<5)
 D Medicine (n.a.)
 B Health Sc (Health & Physical Education) (70.00)

+ biology, chemistry or physics

Australian Catholic University (prereq.)
 B Physiotherapy (97.50)

+ biology chemistry, physics or pdhpe

Australian Catholic University (prereq.)
 B Occupational Therapy (79.10)
 B Speech Pathology (60.10)

+ chemistry

ANU (prereq. any Yr 11/12 maths)
 B Health Science (n.a.)

Charles Sturt University

B Oral Health (Therapy/Hygiene) (73.60)

+ chemistry and biology

University of Sydney
 B Oral Health (n.a.)

Preparing for dentistry as a possibility

Year 12 students are able to apply for **undergraduate entry to dentistry** via a B Dental Science at Charles Sturt, as well as to 8 other Australian universities which offer undergraduate dentistry degrees or assured pathways to dentistry.

- Biology and Chemistry are prerequisites for La Trobe.
- 3 universities have no subject prerequisites at all (but recommend Biology, Chemistry, Maths Advanced and/or Physics).
- two require Maths Advanced (including James Cook which requires Maths Advanced and Chemistry)
- 2 require Chemistry (including James Cook which requires Maths Advanced and Chemistry)
- Adelaide requires Chemistry, Maths Advanced or Physics AND one of either Biology, Chemistry, Geology or Physics.
- The University of Melbourne offers guaranteed entry to the Doctor of Dentistry via B Science or B Biomedicine for students with an ATAR of 99.85 who complete the undergraduate course at the University including prerequisites (anatomy, physiology, biochemistry) with a weighted average of 80%.



health continued

+ chemistry + mathematics advanced

Charles Sturt University

B Clinical Science (65.85)
B Pharmacy (76.55)
B Veterinary Technology (with TAFE) (72.00)

University of NSW

B Exercise Physiology (85.00)

University of Sydney

B Pharmacy (90.05)
B Pharmacy and Management (90.20)

University of New England

B Pharmacy (n.a.)

University of Newcastle

B Podiatry [Central Coast] (67.80)

University of Sydney

B Applied Science (Exercise Physiology) (89.05)

+ chemistry + physics

University of Sydney

B App Science (Physiotherapy) (99.10)

+ chemistry + physics + mathematics advanced

Charles Sturt University

B Dental Science (n.a.)

University of NSW

B Vision Science (preprofessional) (94.05)
B Vision Science/M Clinical Optometry (99.50)

University of Newcastle

B Pharmacy (Honours) [N'castle] (72.05)

University of Sydney

B Veterinary Biology/D Veterinary Medicine (n.a.)

+ chemistry or biology + mathematics standard 2

University of Newcastle

B Midwifery [N'castle][Port Macquarie] (n.a.)
B Nursing [Central Coast] (71.40)
B Nursing [N'castle] (76.00)

+ chemistry + physics or biology

University of Newcastle

B Physiotherapy (92.15)

+ mathematics advanced

Macquarie University

B Clinical Sciences (90.30)

University of Sydney

B Arts/D Medicine (n.a.)
B Science (Health) (80.00)
B Science (Health)/M Nursing (80.25)
B Science/D Dental Medicine (n.a.)
B Science/D Medicine (n.a.)
B Science/M Nursing (80.20)

Western Sydney University

B Health Science (Paramedicine) (87.15)
B ICT (Health Info Management) (<5)

+ mathematics advanced + biology

Charles Sturt University

B Paramedicine (73.15)
B Physiotherapy (81.50)

+ mathematics advanced + biology or chemistry

Southern Cross University

B Midwifery (n.a.)

+ mathematics advanced + physics

Charles Sturt University

B Medical Radiation Science (Diagnostic Radiography) (65.25)
B Medical Radiation Science (Nuclear Med & Imaging) (66.25)
B Medical Radiation Sc (Radiation Therapy) (<5)

University of Wollongong

B Medical Radiation Physics (80.85)

+ mathematics advanced and any two units of science

University of Wollongong

B Exercise Science and Rehabilitation (94.35)
B Medical & Health Science (82.45)
B Nutrition Science (78.35)
B Nutrition and Dietetics (<5)
B Pre-Med Science and Health (94.25)

- single degrees only (except law and teaching)
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- <5 = less than 5 offers made

+ mathematics advanced or physics

University of Newcastle

B Med Rad Sc (Diagnostic) (83.10)
B Med Rad Sc (Radiation) (70.50)
B Med Radiation (Nuclear Med) (69.55)

+ mathematics advanced + chemistry + biology

Charles Sturt University

B Nursing/Grad Dip Clin.Pract (Paramedic) (70.15)
B Nursing (67.00)
B Veterinary Sciences/B Vet Biology (n.a.)

University of Sydney P

B Science/M Nutrition & Dietetics (95.55)

+ any two units of maths

Southern Cross University

B Nursing (n.a.)

+ any two units of maths + any two units science

University of New England

B Clinical Ex Physiology (n.a.)

Western Sydney University

B Nursing (77.30)
B Science (Nutrition & Food Science) (76.40)
B Midwifery (n.a.)

+ any two units of science

University of New England

B Nursing (n.a.)

Preparing for medicine as a possibility

Year 12 students are able to apply for entry to medicine via medical science/medicine combined programs at UNSW and UNE/ Newcastle and D Medicine at Western Sydney - as well as pathway programs at Sydney and Macquarie, to what are really graduate-entry programs. There are no subject prerequisites for these programs, except Maths Advanced at Sydney.

In addition, 14 other Australian universities offer medical degrees or assured pathways to medical degrees via a first degree and a subsequent medical degree.

- Seven of the interstate universities have no subject prerequisites at all.
- Two require Maths Advanced or equivalent (including James Cook which requires Maths and Chemistry)
- Four require Chemistry (including James Cook which requires Maths and Chemistry)
- Bond requires one of Chemistry, Maths Advanced or Physics, and Adelaide Maths Advanced, Biology or Chemistry.

humanities

Only a very few humanities courses have assumed knowledge (other than English) - they are almost entirely a number psychology courses for which Mathematics Advanced is assumed. Otherwise pretty well everything is open, regardless of your HSC subjects.

Of course, you might find that, within particular degrees, certain specialisations may require prior HSC study, but this is not typical for humanities degrees.

■ no assumed, other than english

Australian Catholic University

B Arts (58.50)
B Psychological Science (58.80)
B Psychology (86.10)
B Social Work (58.90)
B Theology (<5)

ANU (prereq. any Yr 11/12 maths)

B Archaeological Practice (<5)
B Arts (80.35)
B Asia-Pacific Affairs (<5)
B Classical Studies (<5)
B Development Studies (<5)
B International Relations (93.20)
B International Security Studies (90.90)
B Languages (<5)
B Philosophy (Hons) Asia and the Pacific (n.a.)
B Political Science (90.60)
B Psychology (Hons) (98.20)
B Science (Psychology) (80.85)

Charles Sturt University

B Arts (62.85)
B Communication (Journalism & Int. Studies) (<5)
B Psychology (75.65)
B Social Work (63.60)

Macquarie University

B Ancient History (90.35)
B Archaeology (88.75)
B Arts (75.15)
B Cognitive and Brain Sciences (80.35)
B Human Sciences (80.15)
B International Studies (<5)
B Linguistics and Language Sciences (76.65)
B Psychology (80.05)
B Psychology (Hons) (94.05)
B Social Science (75.05)

Southern Cross University

B Arts (n.a.)
B Indigenous Knowledge (n.a.)
B Psychological Science (n.a.)
B Social Welfare (n.a.)
B Social Science (n.a.)

UTS

B Communication (Social & Political Science) (74.15)
B Global Studies (69.10)

University of NSW

B Arts (80.20)
B International Studies (89.05)
B Social Research & Policy (80.35)
B Social Work (80.00)

University of New England

B Arts (n.a.)
B Historical Enquiry & Practice (n.a.)
B International Studies (n.a.)
B Languages (n.a.)
B Psychological Science (n.a.)
B Psychology with Honours (n.a.)
B Social Science (n.a.)
B Social Work (n.a.)

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- P = HSC mathematics advanced prerequisite
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- <5 = less than 5 offers made

University of Newcastle

B Arts (62.35)
 B Development Studies (85.70)
 B Global Indigenous Studies (n.a.)
 B Psychological Science (Advanced) (95.15)
 B Social Science (62.15)
 B Social Work (75.10)

University of Notre Dame

B Arts (n.a.)
 B Philosophy (n.a.)
 B Theology (n.a.)

University of Sydney

B Arts (80.05)
 B Social Work (80.45)

University of Wollongong

B Arts (70.80)
 B Arts (Psychology) (75.40)
 B Arts Western Civilisation (n.a.)
 B International Studies (72.60)
 B Politics Philosophy and Economics (78.20)
 B Psychological Sc (pathway Primary Teaching) (<5)
 B Psychological Science (75.35)
 B Psychology (89.45)
 B Social Science (70.00)
 B Social Work (84.20)
 B Sustainable Communities (78.70)

Western Sydney University

B Arts (70.50)
 B Arts (Interpreting and Translation) (<5)
 B Anthropology (n.a.)
 B International Studies (<5)
 B Languages and Linguistics (<5)
 B Psychology (90.65)
 B Social Science (71.50)
 B Social Science (Psychology) (77.00)
 B Social Work (85.50)
 B Humanitarian & Development Studies (<5)

+ mathematics advanced

ANU (prereq. any Yr 11/12 maths)
 B International Business (<5)
 B Politics, Philosophy and Economics (96.90)

University of New England

B Languages & International Business (n.a.)

University of Newcastle

B Psychological Science (62.10)

What if all we had was just the values of the corporate world, without the humanities?

- with the status quo enshrined, the thought police lurking, and it all so one dimensional, plastic and shallow.



+ mathematics advanced

University of Sydney P

B Psychology (95.00)

+ mathematics standard 2

University of NSW

B Psychological Science (87.05)
 B Psychology (98.05)

Note: see Law (pages 40-41) for combined law degrees..

information technology

The only issue with entry to information technology courses is the level of HSC mathematics that you undertake.

At its core, information technology is about the processing of data in a mathematical/logical form. Its roots are in electronics and mathematics. It follows that you will be doing mathematics for the HSC at its highest levels if you wish to work at the core levels of IT.

However, IT is now a very broad term to encompass not just its electronic and mathematical foundations, but information systems analysis, software development and applications. As a result, the level of mathematics required reflects the extent to which courses focus on the technical aspects of the electronic processing of data (such as computer engineering and computer science). The more you move away from this – for instance in information systems design – the less you have to worry about mathematics.

For instance, in software development, IT draws on other skills such as: graphic design or animation in games development; electrical engineering or digital media in mobile communications or multimedia; or accounting, finance and management in business systems development.

■ no assumed, other than english

Australian Catholic University

B Commerce (58.95)
B Information Technology (58.60)

Charles Sturt University

B Information Technology (<5)

Macquarie University

B Advanced Information Technology (91.35)
B Arts (75.15)
B Cyber Security (80.55)
B Games Design & Development (77.15)
B Information Technology (75.10)

Southern Cross University

B Digital Business (n.a.)

University of New England

B Arts/B Business (n.a.)
B Computer Science (n.a.)

University of Newcastle

B Creative Industries (62.90)
B Info Technology (<5)

University of Wollongong

B Business Information Systems (75.65)
B Information Technology (75.65)

Western Sydney University

B Cyber Security and Behaviour (80.50)

■+ mathematics advanced or physics or chemistry depending on major

ANU (prereq. any Yr 11/12 maths)

B Philosophy (Hons) Science (n.a.)
B Science (80.15)
B Science (Advanced) (95.10)



Note for IB students

IB Mathematics: Applications and Interpretations SL = **Mathematics Standard 2**

IB Mathematics: Analysis and Approaches SL = **Mathematics Advanced**

IB Mathematics: Applications and Interpretations HL = **Mathematics Advanced**

IB Mathematics: Analysis and Approaches HL = **Mathematics Extension 2**

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+ mathematics advanced

ANU P

B Advanced Computing (90.50)
B Applied Data Analytics (<5)
B Commerce (86.15)
B Information Technology (81.50)

Charles Sturt University

B Computer Science (<5)

Macquarie University

B Business Analytics (<5)

Southern Cross University

B Business (n.a.)
B Information Technology (n.a.)

University of Sydney P

B Commerce (95.00)
B Economics (90.10)
B Science (80.05)

UTS

B Information Systems (82.10)
B Information Technology (n.a.)
B Science Info Technology/Dip. Info Technology
Professional Practice (80.40)
B Science (Analytics) (89.70)
B Science in Games Development (83.80)

University of NSW

B Commerce (95.00)
B Information Systems (90.00)
B Information Systems (Co-op) (n.a.)

University of New England

B Science (n.a.) or B Science/B Laws (n.a.)

University of Newcastle

B Computer Science (78.70)

University of Wollongong

B Computer Science (75.65)
B Data Science and Analytics (<5) P

Western Sydney University

B Info & Communications Technology (70.30)
B Info & Communication Tech/B Laws (n.a.)
B Computer Science (<5)
B Entrepreneurship (Games & Simulation) (70.20)

+ mathematics advanced or mathematics standard 2 (depending on major)

Macquarie University

B Commerce (80.05)

+ mathematics advanced or none depending on majors

Macquarie University

B Science (75.05)

+ mathematics ext 1

ANU P

B Advanced Computing (R&D) (Hons) (<5)

UTS

B Computer Science (80.00)

University of NSW

B Data Science and Decisions (95.05)
B Science (Computer Science) (93.00)

University of Sydney P

B Advanced Computing (90.00)

+ mathematics standard 2

Western Sydney University

B Business/B Laws (99.95)
B Information Systems (71.30)

+ maths adv+ chemistry + biology earth & env sc, physics or maths ext 1

University of NSW

B Science (85.05)

+ maths ext 1 + physics

UTS

B Engineering (Data Engineering) (81.60)

+ maths ext 1 + chemistry or physics

University of Sydney P

B Engineering & IT (Flexible First year) (92.05)

+ any two units of maths + any two units science

Western Sydney University

B Science (Data Science) (<5)

Note: see Law (pages 40-41) for combined law degrees.

law

There are no prerequisites for entry to law degrees. However, law is generally studied as part of a double degree sequence, and therefore the prerequisites for the other degree in the combination become relevant – for instance in a science/law or commerce/law combination.

It generally comes down to the level of mathematics required.

no assumed, other than english

Australian Catholic University

B Arts/B Laws (71.80)
B Business Administration/B Laws (71.95)
B Commerce/B Laws (71.15)
B Laws (70.15)
B Laws/B Global Studies (71.35)
B Psychological Science/B Laws (70.15)

ANU (prereq. any Yr 11/12 maths)

B Arts (80.35)
B Criminology (81.60)
B International Security Studies (90.90)

Macquarie University

B Arts/B Laws (96.20)
B Cyber Security/B Laws (n.a.)
B Environment/B Laws (96.35)
B Information Technology/B Laws (n.a.)
B International Studies/B Laws (96.05)
B Laws (96.15)
B Media and Communications/B Laws (98.60)
B Medical Sc/B Laws (<5)
B Psychology/B Laws (97.30)
B Security Studies (75.40)
B Security Studies/B Laws (96.95)
B Security Studies/M Counter Terrorism (80.05)
B Social Science/B Laws (97.25)

Southern Cross University

B Arts/B Laws (n.a.)
B Laws (n.a.)
B Legal and Justice Studies (n.a.)
B Legal and Justice Studies/B Laws (n.a.)
B Psychology/B Laws (n.a.)

UTS

B Laws (96.10)
B Communication (Journalism)/B Laws (96.15)
B Communication (MediaArts & Production)/
B Laws (96.05)

University of NSW

B Criminology and Criminal Justice (82.10)

University of New England

B Arts/B Laws (n.a.)
B Business/B Laws (n.a.)
B Computer Science/B Laws (n.a.)
B Criminology (n.a.)
B Criminology/B Laws (n.a.)
B Economics/B Laws (n.a.)
B Laws (n.a.)

University of Notre Dame

B Laws (n.a.)
B Arts/B Laws (n.a.)
B Commerce/B Laws (n.a.)
B Communications and Media/B Laws (n.a.)
B Marketing and Public Relations/B Laws (n.a.)

University of Wollongong

B Laws (92.50)
B Arts (Psychology)/B Laws (90.00)
B Arts/B Laws (90.00)
B Commerce/B Laws (90.00)
B Communication Media Studies/B Laws (90.00)
B Information Technology/B Laws (90.80)
B International Studies/B Laws (90.00)
B Journalism/B Laws (90.00)
B Politics Philosophy & Economics/B Laws (90.00)
B Psychological Science/B Laws (90.00)

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Western Sydney University

B Arts/B Laws (<5)
 B Construction Management Studies/B Laws (<5)
 B Communication/B Laws (<5)
 B Criminal and Community Justice (n.a.)
 B Criminal & Community Justice/B Laws (n.a.)
 B Criminology (72.45)
 B Criminology/B Laws (<5)
 B Cyber Security and Behaviour (80.50)
 B Policing (70.10)
 B International Studies/B Laws (96.95)

+ chemistry + mathematics advanced

University of New England

B Environmental Science/B Laws (n.a.)

+ legal studies

Charles Sturt University

B Laws/B Criminal Justice (<5)

+ mathematics advanced

Macquarie University

B App Finance/B Laws (96.75)

Southern Cross University

B Business/B Laws (n.a.)

UTS

B Business/B Laws (96.10)
 B Economics/B Laws (96.50)
 B Science in Info Technology/B Laws (<5)

University of New England

B Science/B Laws (n.a.)

University of Wollongong

B Computer Science/B Laws (90.80)
 B Economics & Finance/B Laws (90.00)
 B Engineering/B Laws (90.00)

University of Wollongong P

B Mathematics/B Laws (90.00)

Western Sydney University

B Info & Communication Tech/B Laws (<5)

+ mathematics advanced + any two units of science

UTS

B Forensic Science/B Laws (96.15)
 B Medical Science/B Laws (97.10)
 B Science/B Laws (<5)

University of Wollongong

B Science/B Laws (90.00)

+ mathematics advanced or mathematics standard 2 (depending on major)

Macquarie University

B Commerce/B Laws (96.00)

+ mathematics advanced or none depending on majors

Macquarie University

B Arts/B Science (81.20)
 B Science/B Laws (<5)

+ mathematics standard 2

Australian Catholic University

B Biomedical Sc/B Laws (70.20) (prereq.)

Macquarie University

B Business Administration/B Laws (96.00)
 B Prof Accounting/B Laws (<5)

Western Sydney University

B Business/B Laws (99.95)

+ maths ext 1 + physics

UTS

B Engineering Science/B Laws (<5)

+ any two units of maths

University of New England

B Agriculture/B Laws (n.a.)

+ any two units of maths + any two units science

Western Sydney University

B Science/B Laws (<5)

+ see single degree entries

ANU (prereq. any Yr 11/12 maths)

B Laws combined degrees (98.00)
 Combined degrees (cut-off 80+ depending on combination) (80.10)

University of NSW

Combined Law (ATAR + admission test) (n.a.)

University of Newcastle

B Laws (Combined Degs) [N'castle] (92.10)

University of Sydney

Combined Law - Arts, Commerce, Economics
 Engineering and Science/Laws (99.50)

performing arts

There are no formal prerequisites for performing arts courses. However, in almost all cases, the specialist, professional programs will base selection on a range of criteria, including an audition – and presumably this means you should take appropriate HSC studies.

In addition to specialist performing arts degrees, performing arts (drama particularly) may be taken as a specialisation within arts degrees. Entry to these programs generally does not require auditions or prior study in a related area.

no assumed, other than english

Australian Catholic University

B Arts (58.50)
B Arts/B Commerce (N Syd yrs 3&4) (60.35)
B Arts/B Laws (71.80)

ANU

B Arts (80.35)
B Music (92.70)

Charles Sturt University

B Theatre Media (n.a.)
B Creative Industries (Acting and Performance)
(Acting & Performance/Innovation) (n.a.)

Macquarie University

B Arts (75.15)
B Arts/B Laws (96.20)
B Music (75.30)

Southern Cross University

B Arts (n.a.)
B Contemporary Music (64.90)

NIDA

B Fine Arts (Acting) (n.a.)
B Fine Arts (Costume) (n.a.)
B Fine Arts (Design for Performance) (n.a.)
B Fine Arts (Properties and Objects) (n.a.)
B Fine Arts (Scenic Construction and Technologies) (n.a.)
B Fine Arts (Technical Theatre and Stage Management) (n.a.)

UTS

B Music and Sound Design (71.15)

University of NSW

B Arts (80.20)

University of New England

B Arts (n.a.)
B Arts/B Laws (n.a.)
B Music (n.a.)

University of Newcastle

B Arts (62.35)
B Creative Industries (62.90)

University of Notre Dame

B Arts (n.a.)
B Arts/B Laws (n.a.)

University of Sydney

B Arts (80.05)

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- <5 = less than 5 offers made

University of Wollongong

B Creative Arts (Music) (70.15)
 B Performance and Theatre (Performance) (n.a.)
 B Performance and Theatre (Theatre) (72.70)

Western Sydney University

B Arts 70.50
 B Creative Industries (<5)
 B Creative Industries (Music) (n.a.)
 B Music/B Creative Industries (n.a.)
 B Music (n.a.)

+ music 1 or music 2

University of New England

B Education (Secondary Music) (n.a.)

University of Newcastle

B Music (n.a.)

University of NSW

B Music or B Music/B Arts (n.a.)
 B Music/B Education (n.a.)
 B Music/B Media (Screen & Sound) (n.a.)

University of Sydney

B Music (n.a.)
 B Music (Composition) (n.a.)
 B Music (Music Education) (n.a.)
 B Music (Performance) (n.a.)

+ any two units of maths

Western Sydney University

B Arts/M Teaching (Secondary) (<5)

It is no problem at all getting into a drama course somewhere.

But you need a lot of persistence, talent and demonstrated interest and engagement in the performing arts to get into a serious theatre program.



Note: see Law (pages 40-41) for combined law degrees

science

If you look at the prerequisites for the range of science degrees on offer, it is clear that mathematics is the critical ingredient, followed by the relevance of chemistry across so many courses. Your prospects in science, and the options available to you within science degrees, could be compromised without both.

■ no assumed, other than english

Macquarie University

B Marine Science (78.45)
B Medical Sciences (85.10)

Southern Cross University

B Science (n.a.)
B Biomedical Science (n.a.)

■ chemistry, physics, biology + mathematics advanced

University of Newcastle

B Biomedical Science (75.45)

■ chemistry + mathematics advanced

Charles Sturt University

B Clinical Science (65.85)
B Medical Science (Pathology) (70.20)

University of NSW

B Biotechnology (85.10)
B Medical Science (91.05)
B Medicinal Chemistry (90.00)

University of New England

B Geoscience (n.a.)
B Zoology (n.a.)

University of Newcastle

B Biotechnology (62.15)

University of Wollongong

B Medicinal Chemistry (85.35)

■ chemistry

ANU (prereq. any Yr 11/12 maths)
B Health Science (n.a.)
B Biotechnology (<5) (chemistry prerequisite)
B Genetics (<5) (chemistry prerequisite)
B Medical Science (90.60) (chemistry prerequisite)

■ maths advanced + biology or chemistry

University of NSW

B Life Sciences (80.10)

■ maths advanced + 2 units of science

Charles Sturt University

B Science (65.45)

■ mathematics advanced

Macquarie University

B Clinical Sciences (90.30)

University of New England

B Biomedical Science (77.50)
B Science (n.a.)

University of Newcastle

B Science (62.20)

University of Wollongong

B Science (Atmospheric Science) (<5)
B Science (Nuclear Science & Technology) (80.85)
B Science (Physics and Mathematics) (80.85)
B Science (Physics) (80.85)



Note for IB students

IB Mathematics: Applications and Interpretations SL = **Mathematics Standard 2**

IB Mathematics: Analysis and Approaches SL = **Mathematics Advanced**

IB Mathematics: Applications and Interpretations HL = **Mathematics Advanced**

IB Mathematics: Analysis and Approaches HL = **Mathematics Extension 2**

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- <5 = less than 5 offers made

University of Sydney P

B Science (80.05)

UTS

B Advanced Science (Pre-Medicine) (95.15)
 B Biomedical Physics (92.65)
 B Biomedical Science (80.25)
 B Biotechnology (85.50)
 B Forensic Science (85.35)
 B Forensic Science/B Laws (96.15)
 B Marine Biology (79.90)
 B Science (Maths/Stats) (77.05)
 B Medical Science (87.05)
 B Medicinal Chemistry (84.70)
 B Science (Applied Physics) (71.50)
 B Science (Biotechnology/Medical/Biomed) (76.25)
 B Science (Chemistry) (75.00)
 B Science (Environmental Sciences) (73.45)
 B Science (Nanotechnology) (73.35)

University of Wollongong

B Marine Science (85.35)
 B Medical & Health Science (82.45)
 B Medical Biotechnology (85.35)
 B Science (75.55)

+ mathematics advanced or physics or chemistry depending on major

ANU

B Philosophy (Hons) Science (n.a.)
 B Science (80.15)

+ mathematics advanced or none depending on majors

Macquarie University

B Science (75.05)

University of Wollongong

B Mathematics (75.50)

+ mathematics advanced + chemistry + physics or biology

University of Sydney P

B Science (Medical Science) (88.05)

+ mathematics ext 1

Macquarie University

B Mathematical Sciences (<5)

University of NSW

B Science (Advanced Mathematics) (95.10)

Automation and globalisation will change what we do in every job. Workers in the emerging world will make far greater use of the foundational skills of mathematics and science knowledge as well as advanced technology skills.

The New Work Smarts,
 Foundation for
 Young Australians, 2017

+ mathematics ext 2 prerequisite

ANU

B Mathematical Sciences (98.60)

University of Wollongong

B Mathematics (Advanced) (75.50)

+ mathematics standard 2 prerequisite

Australian Catholic University

B Biomedical Science (59.00)

+ maths adv + chemistry + biology earth & env sc, physics or maths ext 1

University of NSW

B Science (85.05)

+ mathematics ext 1 + chemistry

UTS

B Science (Flexible) (75.70)

+ maths ext 1 + chemistry + physics

University of NSW

B Food Science (93.55)

2 units of maths + 2 units science

Western Sydney University

B Medical Science (Anatomy & Physiology) (70.10)
 B Medical Science (Biomedical Science) (71.70)
 B Medical Science (Forensic Mortuary) (72.85)
 B Medical Science (Medicinal Chemistry) (71.90)
 B Science (Applied Physics) (Biology) (Chemistry) (Forensic Biology) (Forensic Chemistry) (Mathematics) (Microbiology) (<5)
 B Science (Forensic Science) (70.75)
 B Science (Nutrition & Food Science) (76.40)

Note: see Law (pages 40-41) for combined law degrees.

sport and recreation

The prerequisites for sport and recreation courses are not too demanding. There is a breadth of mathematics and/or science subjects which would meet the prerequisite requirements for sport and recreation courses.

■ no assumed, other than english

Australian Catholic University

B Exercise and Sports Science (58.65)

B High Performance Sport (59.00)

B Sports and Outdoor Education (<5)

Charles Sturt University

B App Sc (Outdoor Rec and Ecotourism) (<5)

B Sports Media (<5)

Southern Cross University

B Sport & Exercise Science (n.a.)

B Sport & Exercise Sc/B Laws (n.a.)

UTS

B Sport and Exercise Science
(Exercise Therapy) (98.75)

Western Sydney University

B Sport Development (70.85)

B Health Science (Sport & Exercise) (75.00)

■ chemistry + mathematics advanced

University of NSW

B Exercise Physiology (85.00)

University of Sydney

B App Science (Ex & Sport Sc) (80.15)

B Applied Science (Exercise Physiology) (89.05)

■ mathematics advanced

UTS

B Sport and Exercise Management (77.15)

B Sport and Exercise Science (81.75)

■ maths advanced + 2 units of science

University of Wollongong

B Exercise Science (78.60)

B Exercise Science and Rehabilitation (94.35)

'Any PE, biology, chemistry or mathematics would be useful.

'The students who tend to struggle are the ones who have no mathematics background. The mathematics isn't very rigorous, but it is what trips students up. Basic trigonometry and algebra from Further Mathematics is handy.'

Cameron Wilson,
Course Co-ordinator (Exercise Science),
Australian Catholic University

■ mathematics standard 2

Charles Sturt University

B Exercise and Sport Science (65.30)

■ any two units of maths + any two units science

University of New England

B Clinical Ex Physiology (n.a.)

B Exercise and Sports Science (n.a.)

■ two of biology, chemistry, physics or mathematics advanced

University of Newcastle

B Exercise and Sport Science [C.Coast] (67.35)

‘Within the constraints of university prerequisites and assumed knowledge, take the subjects that interest you and the ATAR will follow. That’s how it works!’

Sally O’Keeffe
Monte Sant’ Angelo Mercy College

Year 10 guide to HSC subject selection

March 2020

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