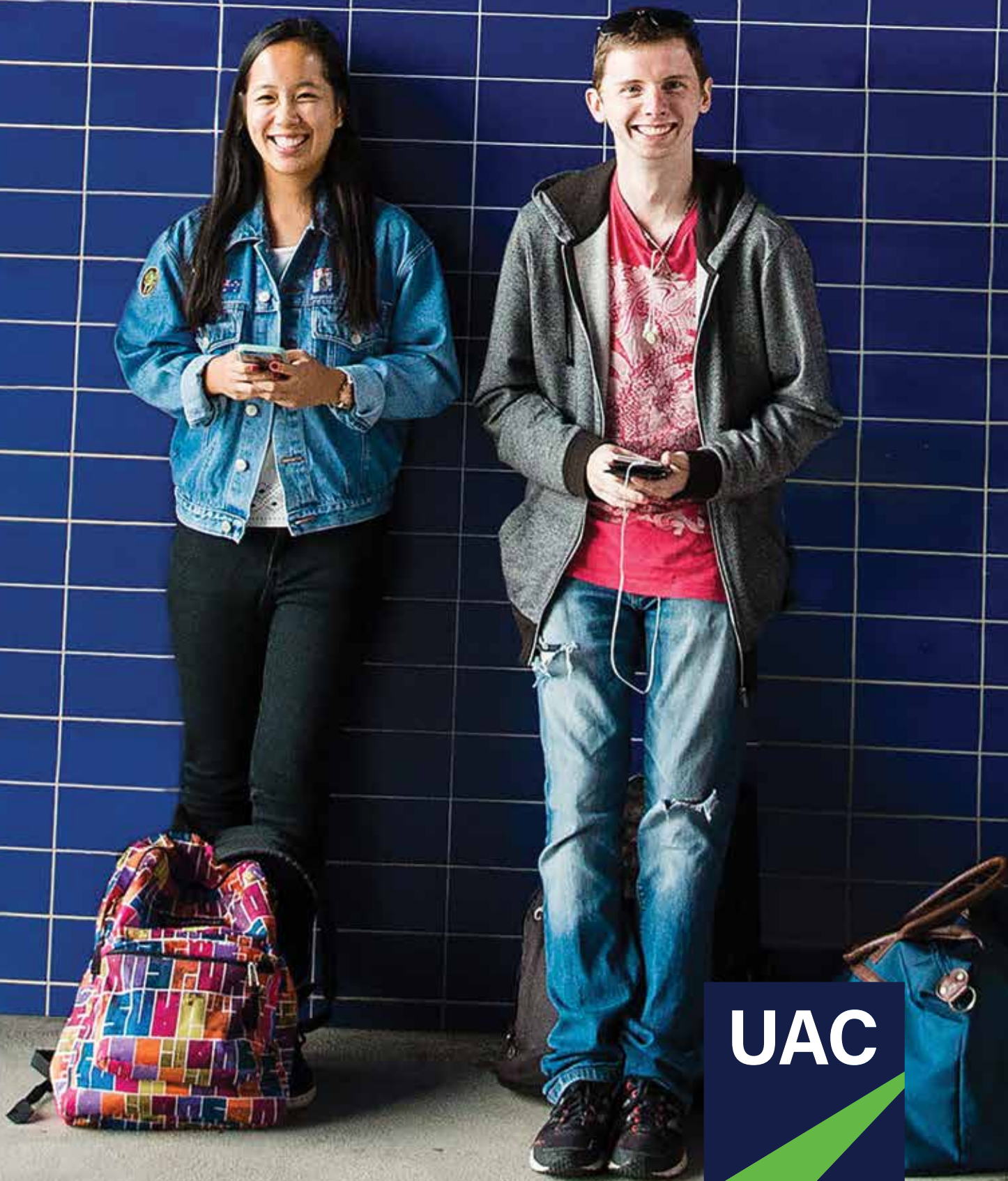


# STEPS TO UNI FOR YEAR 10 STUDENTS



**UAC**







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UNI OPEN DAYS 2019 ii

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# UNI OPEN DAYS 2019

Australian Catholic University	
acu.edu.au	
Canberra	31 August
North Sydney	24 August
Strathfield	7 September

Australian College of Applied Psychology	
acap.edu.au	
Sydney	1 May, 22 August, 27 November

Australian Maritime College	
amc.edu.au	
Launceston	10 August
Hobart	3 August

Australian National University	
anu.edu.au	
Canberra	31 August

Charles Sturt University	
futurestudents.csu.edu.au/events	
Orange	6 September
Bathurst	4 August
Port Macquarie	25 August
Albury-Wodonga	18 August
Dubbo	30 August
Wagga Wagga	11 August

CQUniversity	
cqu.edu.au/openday	
Sydney	22 August
Online Chat available 3–6pm	30 April, 23 May 18 September, 10 October, 26 November

Griffith University	
griffith.edu.au/open-day	
Gold Coast, Nathan and South Bank	11 August

International College of Management, Sydney	
icms.edu.au	
Manly	11 August

La Trobe University	
latrobe.edu.au	
Shepparton	2 August
Melbourne	4 August
Mildura	14 August
Albury-Wodonga	18 August
Sydney	22 August
Bendigo	25 August

Macleay College	
macleay.edu.au	
Surry Hills	24 August

Macquarie University	
mq.edu.au	
North Ryde	17 August

MIT Sydney	
mit.edu.au/open-day	
Sydney	24 August

National Art School	
nas.edu.au	
Darlinghurst	7 September

SAE Creative Media Institute	
sae.edu.au	
Sydney and Byron Bay	11 August

SIBT	
sibt.nsw.edu.au	
For campus tours/appointments and course information call (02) 9964 6555 or visit sibt.nsw.edu.au	

Southern Cross University	
www.scu.edu.au/opendays	
Coffs Harbour	16 August
Lismore	17 August
Gold Coast	18 August

TOP Education Institute	
top.edu.au	
For a campus tour call (02) 9209 4888	

Torrens University Australia	
torrens.edu.au	
Torrens University	17 August
Media Design School	11 May, 17 August
William Blue College of Hospitality	17 August
Billy Blue College of Design	11 May, 17 August
Blue Mountains International Hotel Management School	7 September

University of Canberra	
canberra.edu.au	
Bruce	31 August

University of New England	
une.edu.au	
Armidale	10 May

University of Newcastle	
newcastle.edu.au	
Port Macquarie	15 August
Central Coast (Ourimbah)	3 August
Newcastle (Callaghan) and Newcastle City	31 August

University of Sydney	
sydney.edu.au	
All campuses	31 August

University of Technology Sydney	
openday.uts.edu.au	
City campus, Ultimo	31 August

University of Wollongong	
openday.uow.edu.au	
Wollongong	3 August

UNSW Sydney	
unsw.edu.au	
UNSW Sydney	7 September
UNSW Canberra	24 August

Western Sydney University	
westernsydney.edu.au	
Parramatta City campus	18 May
Parramatta South and Parramatta City campuses	18 August
Liverpool City campus	21 September

## **PART 1: YEAR 10 - A YEAR OF DECISIONS**

This booklet is for Year 10 students choosing their courses for Years 11 and 12. Its aim is to help you think about the next two years and make the best decision for successful study in senior school and beyond.





## INTRODUCTION

In Year 10 you will choose the courses that you will study for the next two years. Although there are many pathways to uni or college, choosing the right courses at school can make it easier to enter and succeed at tertiary study.

In this booklet, UAC's participating institutions have listed the courses they plan to offer for 2022 admissions. For each course they have also set out, where applicable, details of:

- areas of study
- prerequisites
- assumed knowledge
- recommended studies
- additional selection criteria.

Some NSW institutions have prerequisites and many specify assumed knowledge and recommended studies. This is important information to consider when choosing courses to study in Years 11 and 12.

Most institutions offer bridging courses if you have not studied the HSC courses listed as assumed knowledge or recommended studies, but bridging courses are not equivalent to the two-year HSC course and may add significantly to your workload.

This booklet also provides general information about HSC courses, how the ATAR is calculated and used for tertiary entry, and why your selection rank for a course might be higher than your ATAR. There are worksheets to guide you through the steps involved in choosing your courses for Years 11 and 12.

If you're not sure about the exact career path you want to follow, this booklet can help you choose courses which will keep your options open and give you the best chance of succeeding in the future.

## ABOUT UAC

The Universities Admissions Centre (UAC) is the central office that receives and processes applications for undergraduate and postgraduate courses at its participating institutions, mainly in NSW and the ACT.

In 2018–19, there were more than 2,000 undergraduate courses listed through UAC.

UAC also:

- calculates and provides the Australian Tertiary Admission Rank (ATAR) to NSW HSC students
- processes applications for Schools Recommendation Schemes
- processes applications for Educational Access Schemes
- processes applications for some Equity Scholarships.

## UAC JARGON

Here are definitions of the common terms used by UAC, universities and colleges.

### Additional selection criteria

Compulsory requirements, either in addition to, or instead of, normal admission criteria, which you must meet to be considered for selection into a course. Examples include a personal statement, questionnaire, portfolio of work, audition, interview or test.

You should find out as soon as possible if the course you're interested in has additional selection criteria as some of these require materials and evidence of experience to be compiled or documented during Years 11 and 12.

### Adjustment factors

Factors that institutions consider in order to increase your selection rank for a particular course (eg achievement in an HSC course related to your preferred degree or eligibility for Educational Access Schemes). They do not change your ATAR.

### Admission criteria

The minimum qualifications required for you to be considered for entry to a particular course. Entry to many courses is competitive and the attainment of minimum qualifications does not guarantee you will be offered a place.

### Advanced diploma

An award requiring two or three years of full-time, or equivalent part-time, study. This is the highest of the undergraduate diploma awards.

### Areas of study

Areas of study within a course are generally studied throughout the course as major areas of study, specialisations or sub-majors, or as additional or supporting subjects or units.

### Associate degree

An award requiring two years of full-time, or equivalent part-time, study which equates to the first two years of a designated three-year degree course.

## Assumed knowledge

Some institutions assume you have knowledge of specific NSW HSC courses or equivalent before beginning your course. If you do not have the assumed level of knowledge but have met the admission criteria you can still be selected for the course, but you may have some difficulty coping with your studies. Bridging courses may be recommended for some students who do not have the assumed level of knowledge.

## ATAR (Australian Tertiary Admission Rank)

A measure of academic achievement in the HSC that helps institutions rank applicants for selection to tertiary courses. The ATAR is a rank, not a mark.

### ATAR courses

Board Developed courses for which the NSW Education Standards Authority conducts examinations that yield graded assessments. Classified as Category A courses or Category B courses, these are the only courses that can be included in the ATAR calculations.

### Bachelor degree

An award requiring three or four years of full-time, or equivalent part-time, study.

### Bridging courses

Courses that enable you to achieve the required level of assumed knowledge for a tertiary course. These courses are only taught to an introductory level and are not equivalent to the two-year HSC course.

### Category A courses

ATAR courses that have the academic rigour and depth of knowledge to provide an adequate background for tertiary studies and can contribute to the ATAR calculation.

### Category B courses

ATAR courses that don't provide an adequate background for tertiary studies, but can contribute to the ATAR when combined with Category A courses. No more than 2 units of Category B courses can be included in the ATAR calculation.



## Combined/double/dual degrees

Allow students to complete two degrees in less time than if the two degrees were studied sequentially.

## Deferment

Delaying the commencement of a course, usually for six months or a year. Some institutions only grant deferments in special circumstances.

## Diploma

An award usually requiring two or three years' full-time, or equivalent part-time, undergraduate study. These courses are usually characterised by more emphasis on practical skills than on the theoretical content.

## HSC subjects and courses

A subject is a general area of study or a key learning area. A course is a branch of study within a subject. A subject may have several courses. For example, the courses English Studies, English Standard, English Advanced, English Extension 1, English Extension 2 and English as an Additional Language or Dialect are all courses within the subject of English.

## Institution

A provider of tertiary study, such as a university or a college. UAC's participating institutions are those for which you apply through UAC.

## Selection rank

Your selection rank for a uni course takes into account all the criteria you are required to meet in order to gain entry to the course. As a Year 12 student, your selection rank is usually your ATAR plus any adjustment factors for which you are eligible. For example, if you do well in an HSC course related to the degree you want to study, the uni might increase your selection rank for that degree. If you are required to attend an interview or submit a portfolio, your performance in these will also contribute to your selection rank.

The lowest selection rank required to be offered a place in a course is determined by:

- the number of places available in the course
- the number of applicants for the course
- the quality of those applicants.

This means that the lowest selection ranks change from year to year and are impossible to predict before applicants are selected for a particular course in a particular year.

## NSW Education Standards Authority (NESA)

Sets the core curriculum for Kindergarten to Year 12, sets guidelines for school assessment tasks, and sets, organises and marks the HSC examinations for government and non-government schools in NSW.

## Open days

Open days are set aside for prospective students to visit a campus to view the facilities and meet academic staff and students.

## Pathway courses

Non-degree courses – such as foundation studies, preparatory courses and certificates, diplomas or associate degrees – offered by institutions to applicants who don't meet the entry requirements for their course or need further support and preparation before studying at degree level. Many institutions offer entry into the degree after successful completion of the corresponding pathway course. Some institutions offer pathway courses through UAC.

## Prerequisites (see also Assumed knowledge)

A specified NSW HSC course or equivalent that you need to have completed, or achieved a specified standard in, before you are eligible to be offered a place in the tertiary course (course prerequisites) or a subject within that course (subject prerequisites).

## Recommended studies

NSW HSC or equivalent courses that institutions suggest will help you in your chosen university course. However, if you haven't studied these courses your chances of selection are not affected.

## Undergraduate course

An entry-level course for first-time university students that leads to a first qualification, such as a bachelor degree, an associate diploma or a diploma.





## **THE HSC AND THE ATAR**

Understanding more about the HSC, the ATAR and applying to uni will help you make the best decisions about your courses.







## THE NSW HSC

Studying for the NSW HSC begins in Year 11 with preliminary courses and ends with the HSC exams at the end of Year 12. Your Year 12 assessment marks and your HSC exam marks will contribute equally to your final HSC marks.

### Eligibility

To be eligible for the HSC you need to meet the following requirements:

- complete at least 12 units of preliminary courses in Year 11
- complete at least 10 units of courses in Year 12, including a 2-unit English course.

Most courses are 2 units and to qualify for the HSC at least 6 units must be in courses examined by the NSW Education Standards Authority (NESA).

Being eligible for an HSC doesn't necessarily mean you will be eligible for an ATAR – read the next section for ATAR eligibility requirements.

### HSC courses

There are many HSC courses but not all of them can contribute to an ATAR.

#### ATAR courses

ATAR courses are developed and formally examined by NESA. These Board Developed courses are the only courses that can be included in ATAR calculations. They are classified as either Category A or Category B courses.

Category A courses have the academic rigour and depth of knowledge to provide an adequate background for tertiary studies.

Category B courses on their own don't provide an adequate background for tertiary studies, but can contribute to the ATAR if the other courses included in the ATAR are the more academically demanding Category A courses.

For this reason, only 2 units of Category B courses can be included in the ATAR calculation.

HSC Board Developed courses that will be examined in 2021 are listed in the tables on pages 44-45.

#### Other courses

Vocational courses are industry-based, hands-on courses and usually include work skills and work placements. These courses may be delivered at your school, at another school or at TAFE.

TAFE-delivered HSC VET (TVET) courses, also known as Industry Framework courses, are developed or endorsed by NESA and include Category B courses.

HSC Board Endorsed courses can be either Content Endorsed courses (with syllabuses endorsed by NESA) or School Developed courses (approved by NESA). All Board Endorsed courses count towards your HSC but they do not contribute to the ATAR. Content Endorsed courses are listed on page 45.

#### Distance education

If you live in an area that is isolated, have special circumstances that prevent you from attending school on a regular basis or meet other criteria, you can study through distance education.

There are more than 100 HSC courses and UAC's participating institutions are aware that not every school offers all courses. If your school does not offer a course recommended as preparation for tertiary study, ask the institution about supplementary studies you may need to undertake.

## THE ATAR

The first thing to understand is that the ATAR is a rank, not a mark out of 100. It's a number between 0.00 and 99.95 with increments of 0.05. It tells you about your position overall in the HSC in relation to your peers.

Think of it like a running race: your HSC marks indicate your time (and your time is not compared to anyone else's), while your ATAR indicates your place (first, second, third, and so on). Your position in the race depends not only on your time but on the times of the students you are competing with.

The median (or middle) ATAR is usually just below 70.00, while median HSC marks are often above 80.

UAC notifies NSW HSC students of their ATAR. Year 12 students can access their ATAR on UAC's website or the My UAC app in December.

### Eligibility

To be eligible for an ATAR, NSW students must satisfactorily complete at least 10 units of ATAR courses.

These ATAR courses must include:

- 8 units of Category A courses
- 2 units of English
- three Board Developed courses of 2 units or greater
- four subjects.

The last point is easy to overlook. A subject is an HSC area of study (eg mathematics). Within that subject there may be a number of courses (eg Mathematics Standard 1 or 2, Mathematics Advanced, Mathematics Extension 1, Mathematics Extension 2).

Let's say a student studies the following courses:

- Mathematics Extension 1
- Mathematics Extension 2
- English Advanced
- English Extension 1
- Biology.

This student will **not** meet the four subjects requirement because they have only studied three subjects:

1. Mathematics
2. English
3. Biology.

When you choose your program of study for the HSC, make sure you will be eligible for an ATAR if you wish to study at university.

### Satisfactorily completing a course

You will be considered to have satisfactorily completed a course if, in the principal's view, there is sufficient evidence that you have:

- followed the course developed or endorsed by NESA
- applied yourself with diligence and sustained effort to the set tasks and experiences provided in the course by the school
- achieved some or all of the course outcomes
- made a genuine attempt at assessment tasks that total more than 50 per cent of the available school assessment marks for that course.

You will also need to make a serious attempt at the examination for the course.

Failure to satisfactorily complete a course will result in that course not contributing to the eligibility requirements. If the course is a 2-unit course for which there is an associated extension course, neither course will contribute towards your ATAR.



## How the ATAR is calculated

The ATAR is based on an aggregate of scaled marks in 10 units of ATAR courses comprising your:

- best 2 units of English
- best 8 of the remaining units, which can include up to 2 units of Category B courses.

HSC students study roughly 27,000 different combinations of courses. Scaling allows us to compare them.

## ATAR myths

It's a myth that choosing certain courses will automatically increase your ATAR. There is no magic formula for getting a good ATAR; it all depends on how well you've done in all your courses in comparison to other students.

Your HSC mark will be scaled according to the course's scaled mean. The scaled mean indicates the academic ability of students taking the course, not the perceived difficulty of the course:

- If a course has a high scaled mean it tells us that, on average, the ability of the students in that course is high: in general, they did well in their other courses.
- If a course has a low scaled mean it tells us that the ability of the students in that course ranges from high to low. It **doesn't** mean that you can't get a high ATAR if you study that course.

The following table illustrates these points using data from selected 2018 HSC courses.

**HSC mean** = average student performance in the course

**Scaled mean** = average position of students taking the course

**Max. ATAR of student taking the course** = highest ATAR calculated using both units of the course

Category A course	Median performance band	HSC mean	Scaled mean	Max. ATAR of a student taking the course
Aboriginal Studies	3	67.6	▶ 27.8	▶ 98.90
Biology	4	74.4	52.6	99.95
English Advanced	5	81.0	▶ 63.2	99.95
Physics	4	73.6	▶ 61.0	99.95
Visual Arts	5	80.2	44.2	99.80
<b>Category B course</b>				
Hospitality	4	72.8	37.6	▶ 98.75

▶ This student's ATAR is very high even though it was calculated using their results in a course with a low scaled mean.

▶ High scaled mean for these courses indicates that the students are generally high achievers in all other courses.

▶ A student taking a Category B VET course can still receive a high ATAR.

This all means that you shouldn't choose courses based on what you believe are the likely effects of scaling on your ATAR. Your course choices should be based on your interests, demonstrated abilities and future career plans.

Studying courses that you are not good at or happy with may mean you won't do your best or achieve good marks. Choosing courses you are good at and do well in will give you the best chance of maximising your ATAR.

Lots of students get HSC marks between 70 and 80, so their rankings are really spread out. Getting closer to 80 will make a big difference to your ATAR.

### The ATAR in the ACT

The ATAR calculated in the ACT is directly comparable to the ATAR calculated in NSW and other states.

The ACT operates a system of school-based curriculum and assessment through the ACT Board of Senior Secondary Studies (BSSS). Each college determines the courses (and units) that they offer to students. There are no compulsory courses or units and no examinations set by a central authority for any subject.

If you're an ACT Year 12 student and want to apply for tertiary study, you must sit the ACT Scaling Test (AST). The AST is used to calculate your ATAR.

The calculation of the ATAR in the ACT is based on your best three scaled course scores from major courses plus 0.6 of the next best scaled course score. The scaled course scores are then added to form an aggregate score. Students are then ranked based on their aggregate score, which is converted to an ATAR.

As your ATAR is calculated from your performance in the AST, if you drop a course it may not affect your ATAR directly. However, you need to take into account prerequisites for tertiary courses outlined in this booklet.



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If you are a college or school student in the ACT and you are thinking about studying at a UAC participating institution, you may need to check how your ACT Senior Secondary Certificate courses compare to NSW HSC courses.

The following table shows indicative course comparisons for key subjects for admissions. For a full listing of the most recent course-comparison information, visit the UAC website.

#### ACT courses comparable to NSW HSC courses

ACT course	NSW HSC course
Biology (Major) Biological Science (Major) Biological Studies (Major)	Biology
Chemistry (Major)	Chemistry
English (Major)	English Advanced
English (Major/Minor)	English Extension 1
English (Double Major)	English Extension 2
Mathematical Methods/ Further Mathematics (Major)	Mathematics Advanced
Specialist Mathematics/ Specialist Methods (Major)	
Specialist Mathematics/ Specialist Methods (Major/ Minor)	Mathematics Extension 1
Specialist Mathematics/ Specialist Methods (Double Major)	Mathematics Extension 2
Music (Major)	Music 2
Physics (Major)	Physics
Art Production (Major) Creative Art (Major) Visual Arts (Major)	Visual Arts

## APPLYING TO UNI

Every year, more than 50,000 Year 12 students apply through UAC for admission to courses offered by UAC's participating institutions. For the majority of courses there are more applicants than places, so applicants are ranked for selection.

For most courses, your selection rank is your ATAR, but an institution may increase your selection rank for certain courses in recognition of, for example, your performance in related HSC courses or equity considerations (read page 12). Therefore, your selection rank may be higher than your ATAR for certain institutions or courses.

## REQUIREMENTS FOR TEACHING

For registration as a teacher in NSW schools, graduates will need to meet requirements set out by the NSW Education Standards Authority (NESA). There is an expectation that students entering teaching programs will have achieved a minimum of three Band 5s, one of which must be in English, in their HSC. Other approved pathways for students who do not meet this requirement are available. In addition, teaching students will need to pass national literacy and numeracy tests before graduation. For further information about the tests and specific entry requirements (including academic and non-academic criteria), check with the individual institutions.

## INTERNATIONAL BACCALAUREATE

If you attempt the International Baccalaureate (IB) Diploma or Bilingual Diploma in Australia, your diploma will be recognised as equivalent to an Australian Year 12 qualification for admission to tertiary institutions in Australia.

IB students apply for uni through UAC in the same way as Year 12 students. However, IB students don't receive an ATAR; instead, they receive a UAC rank based on their total score.

On UAC's website you can view a table showing the conversion of the IB aggregate score to the UAC rank and a table that compares IB results with NSW HSC results.

You can also see which NSW HSC courses are considered comparable to your IB courses. This is useful for checking that you meet any course prerequisites and have the level of assumed knowledge specified for the course. You will also be able to check if you are eligible to have your selection rank adjusted because you've performed well in Year 12 courses related to your preferred degree.

## Admission criteria

In addition to the ATAR, many institutions may specify other admission criteria such as:

- course or subject prerequisites
- additional selection criteria.

## Prerequisites

For example, an advanced computing degree might specify Mathematics Advanced as a course prerequisite. If you haven't studied Mathematics Advanced, you haven't met this prerequisite and you won't be considered for the course, regardless of your ATAR. Another course might specify Mathematics Advanced as a subject prerequisite. If you haven't studied Mathematics Advanced, you can still be considered for the course but you won't be able to study certain subjects within that course.

## Additional selection criteria

Many courses have additional selection criteria. For example, visual arts courses will ask you to supply a portfolio and this will contribute to your selection for the course. Music-based courses may require an audition and others may require you to attend an interview, write a personal statement or sit a test.

## Assumed knowledge

Institutions can also indicate the HSC courses that they either assume you have studied before you start a particular tertiary course, or suggest you study to prepare for your chosen tertiary course. These are listed as:

- assumed knowledge
- recommended studies.

If you don't have the assumed level of knowledge or haven't completed the recommended studies you can still be selected for the course but you may have difficulty coping with your studies or just not be as prepared as other students.

When you're choosing your Year 11 and 12 courses, use this booklet to find out if there are any admission criteria, assumed knowledge or recommended studies for the course you're interested in. Then, when you apply for tertiary study at the end of Year 12, you'll be able to meet any entry requirements to the course and have the foundations for successful tertiary study. There is more information about admission criteria on page 37.

## How the lowest selection rank for a course is determined

The lowest selection rank required to be offered a place in a course is determined by three factors:

1. the number of places available in the course
2. the number of applicants for the course
3. the quality of those applicants.

These three factors mean that the lowest selection rank for a course can change from year to year and is not known until applicants are selected for that course each year.

The lowest selection rank does not represent the average ability of the students accepted for the course and does not reflect the difficulty or quality of the course.

## Selection rank adjustments

Many applicants receive an offer to a course even though they have an ATAR below the published lowest selection rank. Often this is because other factors have been taken into consideration in combination with their ATAR and their selection rank for that course has been adjusted, making it higher than their ATAR.

These adjustments are due to factors such as performance in HSC courses, living or attending school in a certain area, and applying for consideration through Educational Access Schemes.

Selection rank adjustments are applied differently from institution to institution and from course to course within the same institution. Visit each institution's website for details.

It's good to understand how your selection rank might be adjusted, but don't be swayed into choosing certain courses based on this knowledge. By the time you apply for tertiary study, schemes may have changed and it's more important to focus on doing well.

## Educational Access Schemes

Your selection rank may be increased if an institution considers you eligible for its Educational Access Schemes (EAS). Most institutions that participate through UAC have a scheme for applicants who've experienced long-term educational disadvantage (due to circumstances beyond their control or choosing) which has seriously affected their educational performance. A long-term educational disadvantage usually means a disadvantage that has lasted for at least six months.



Keep an eye out for uni information evenings – they'll help you navigate your HSC course selection.

## FREQUENTLY ASKED QUESTIONS

### How many courses should I take in Years 11 and 12?

The number of courses you study depends on how many courses you can realistically manage and succeed in. Generally, courses are 2 units and to be eligible for the HSC you must successfully complete at least 12 units of study in Year 11 and at least 10 units in Year 12.

You must also study at least four subjects. Mathematics is a subject; within that subject there are a number of courses – Mathematics Standard 1, Mathematics Standard 2, Mathematics Advanced, Mathematics Extension 1 and Mathematics Extension 2.

Around 47% of HSC students do only 10 units in Year 12. The next most common pattern is 11 units (around 17%).

### Is there anything I need to do if I change schools?

Not all schools offer the same HSC courses, so check that you'll be able to continue with the courses you have already been studying.

### Can I drop a course at the end of Year 11?

Yes, but if you are thinking of going to university make sure you will still be eligible for an ATAR. Remember, to be eligible for an ATAR, you must satisfactorily complete at least 10 units of ATAR courses in Year 12, including:

- 8 units from Category A courses
- 2 units of English
- three Board Developed courses of 2 units or greater
- four subjects.





### How do I know if the course I'm dropping is a prerequisite for a course or subject I'd like to study at uni?

There are a few places you can check course and subject prerequisites:

- the institution entries in Part 2 of this booklet
- the undergraduate course descriptions on UAC's website
- institution websites.

### Can I accelerate my HSC studies?

Yes, you can take a Year 12 course while in Year 11. The advantages of this can be:

- studying fewer courses in Year 12, meaning you can focus more on those units
- studying a broader range of subjects
- having extra units from which to draw your best 10 scaled marks for inclusion in your ATAR calculation.

However, accelerating your studies is no guarantee that you will improve your results.

### If I complete an accelerated course in Year 11, who am I ranked with?

Courses are scaled in the year you complete them and the scaled mark is available for inclusion in the ATAR calculation when you become ATAR eligible. You are ranked with others in the same ATAR cohort.

### How many units of maths can I do?

Up to 4 units of maths can be included in the ATAR calculation. Students studying Mathematics Extension 1 should be aware that it has a different weighting (in terms of units) depending on whether Mathematics Advanced or Mathematics Extension 2 is taken as well.

If you study Mathematics Advanced (2 units), then Mathematics Extension 1 accounts for 1 unit.

If you study Mathematics Extension 2 (2 units), then Mathematics Extension 1 accounts for 2 units. This is calculated by doubling the mark received for the 1-unit course.

If you complete Mathematics Advanced and then go on to satisfactorily complete Mathematics Extension 1 and Mathematics Extension 2, your results in Mathematics Advanced will not be included in the ATAR calculation, even if you excel in it.

### Will I get a better ATAR if I do a lower level of maths?

Not necessarily. You might have a higher position in a lower level course, but this will be offset by a lower scaled mean for that course, and possibly a lower scaled mark for you. Choose the level of maths that gives you the best foundation for further study. Also remember that institutions are more likely to adjust your selection rank in recognition of your performance in the higher level maths courses.

### Can a Category B course completed in Year 11 be included in my ATAR calculation?

Yes. Any course completed in Year 11 will be available for inclusion in the ATAR calculation. Whether it is actually included will depend on whether it is among your best 8 scaled units (after English). English Studies, which is a Category B course, will always be included because 2 units of English must be used in the calculation of your ATAR.

Remember also that for a Category B course to be included in the ATAR calculation, the examination must be completed. Therefore, schools must ensure that students studying Category B courses are enrolled with NESA for the course and the exam.

### Why do some courses scale better than others?

Courses have to be scaled so that marks in different courses can be compared with each other. Courses are scaled using the mean scores and distribution of marks, which indicate the ability of the students taking the course. Courses such as Mathematics Extension 2 and Physics traditionally scale well because students who take these courses are generally perform well in all their courses. The purpose of scaling is to rank students according to their overall achievement. Therefore, to get a high ATAR, students must achieve high HSC marks and high positions in all their courses.

### Can I be disadvantaged by the school I attend?

No. The school you attend does not feature in the ATAR calculation. The ATAR calculation is based only on marks provided by NESA – no other information is used.

### Can I be disadvantaged by where I live?

No. Where you live is not used in the ATAR calculation.

### Can I get a better ATAR by studying more units?

No. You cannot assume that simply by studying more units your ATAR will be increased. While students who study more units tend to gain higher ATARs, there are a number of reasons why, such as each student's interest, motivation, effort and time management.



\* QS Graduate Employability Rankings, 2019.  
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### Can I get a high ATAR studying courses such as Visual Arts, Business Studies and Hospitality?

Yes. It is possible to achieve a high ATAR regardless of courses studied. However, it is important to note that students who achieve very high ATARs are usually placed in the top group of students in all of their courses.

### Can I get a higher ATAR by studying certain courses?

No. Your ATAR indicates your overall position; that is, how well you have performed compared to other students. It is a myth that choosing certain courses increases your ATAR. You can only maximise your ATAR by choosing courses you enjoy and do well in. Students who achieve high ATARs are generally placed near the top in all of their courses.

### When is the ATAR released?

ATARs are released in December each year on UAC's website and the My UAC app.

### How do ACT students find out about the ATAR?

In the ACT, the ATAR is calculated by the ACT Board of Senior Secondary Studies, in consultation with UAC, and released by schools.

Your ATAR is a rank (not a mark) based on your position compared to other students in the state.

Your HSC mark for each course is based on your performance in your exam and assessments.

### If a uni increases my selection rank, does this mean my ATAR increases?

No. Institutions will only adjust your selection rank for a particular course; your ATAR will not change.

### What is meant by the 'lowest selection rank' for a course?

This is the lowest selection rank (combination of ATAR and adjustment factors) required to be offered a place in the course. It is not the lowest ATAR of an applicant who received an offer to the course.

The lowest selection ranks for courses in a particular year are only known after offers are made. Therefore, UAC publishes the previous year's selection ranks.

### Does UAC have an ATAR calculator?

No. UAC only advises students of their official ATARs on ATAR release day in December each year. UAC does not endorse the use of ATAR calculators. ATAR calculators do not use current data so can only be a general indication of a student's possible ATAR.

### What happens if a course is repeated?

Courses can be repeated over a period of up to five years. A student is considered to be repeating an HSC course if they:

- repeat the same course
- study a different course in the same subject area, apart from an extension course.

If a student repeats a course, only the marks for the latest satisfactory attempt will be available for inclusion in the calculation of their ATAR, even if they are lower than the earlier attempt.



## STEP 1: CONSIDER

Year 10 is a good time to start thinking about your future – not just what you'd like to do for the next two years, but what you'd like to do beyond that. Are you thinking of further study, getting a job or doing an apprenticeship? The following pages will help you consider your options.







Being unsure of what you want to do next is quite common. You may already know that you would like to go on to further study but not be sure of the type of course you'd enjoy.

If you're looking at a specific career path you may already know what tertiary course you need to do. It's important that you understand all the requirements for this course when you choose your Year 11 and 12 courses.

Maybe the thought of more years of study after school isn't right for you just now. Perhaps you want to get straight into the workforce, or take up a traineeship or apprenticeship.

If you enter the workforce, consider how workplaces change over time and the importance of continuing to learn as your career develops. If you decide to come back to study in the future, there are other pathways to entry. Choosing courses at school that give you the broadest range of future options will make this easier for you later.

Think about your future, consider your abilities, investigate your options and make a plan.

You might want to start with the following questions.

## WHO INSPIRES YOU?

When thinking about your future, a good place to start is by looking around at who and what inspires you.

This could be a person, such as a family member or friend, or someone prominent in public life.

Or it could be something you've seen or heard:

- a book, television show, movie or documentary
- a podcast or something you've seen online.

Think about why these people or things inspire you. Is it what they do, the way they relate to others, their community spirit, the story they tell or the message they give?

The things that inspire you can shape your future goals and dreams.

## WHAT DO YOU LIKE TO DO?

Think about the type of person you are and your interests.

Do you like:

- doing things outside or inside?
- helping others?
- working with technology?
- organising things?
- talking to people?
- finding out how things work?
- being original and creative?
- working on your own?
- working with others?

When planning your future career, consider your natural inclinations and abilities. For example, you may not be happy and successful as a park ranger if you don't enjoy the outdoors!



## FRED AND LAURA

Fred and Laura are in Year 10. At the moment the end of school seems a long way away, but they have started to consider their futures. They're not sure what they want to do after school but their parents and teachers are encouraging them to consider going on to further study after Year 12.

Fred goes to school in the city and enjoys hanging out with his friends. He's inspired by sports players and is the captain of his local basketball team.

Laura goes to school in the country and grew up on her family's farm. She loves it when her friends come to stay and they go horseriding, and she enjoys working with her dad and brother on local Landcare projects.

Fred also enjoys playing on his computer; he particularly likes a stock market game that he plays with his friends. Fred's dad is in business for himself and he's been helping Fred beat his mates. Fred also likes photography and a couple of his basketball photos have been in the local paper.

So far in high school Fred has done well in geography, history and economics and he really likes these subjects, which makes it easy for him to stay focused.

Laura's best marks are in science subjects and her teachers have encouraged her to continue with them in Years 11 and 12. She also really enjoys history and art classes.

Throughout this booklet we'll use Fred and Laura's story to show how you can navigate your way to tertiary study.

## WHAT ARE YOU GOOD AT?

Think about your academic skills and interests. What subjects are you good at? What do you enjoy studying? Often these are the same because you do well at subjects you enjoy and are interested in.

Investigate the types of jobs that use these subjects as key parts of what they do. For example, being good at geography could lead you to a job as a town planner, tour guide, cartographer or civil engineer. Being good at languages could lead you to a job as a customs officer, foreign affairs and trade officer, language teacher or translator, or you could work in an importing and exporting business.

Also consider what you're good at outside school. What extracurricular activities do you do? If you're good with pets, find out about jobs involving animals.

The table on pages 29–35 will help link your interests to possible careers and subject choices.

There are lots of ways to reach your goal, so also think about your Plan B.

## WHO CAN YOU TALK TO?

Talk to those around you about your options for the future. They may have some good suggestions and new ideas.

- Talk with your parents and family about their career choices.
- Organise your own work experience – volunteer to work somewhere for a week to see if you enjoy it.
- Get a part-time job – it will give you a taste of what it's like to be in the workforce.
- Visit careers expos and uni open days (refer to the list at the front of this booklet).
- Use the undergraduate course search on UAC's website or in the My UAC app, where you only need a keyword, like 'music' or 'chemistry', to search more than 2,000 tertiary courses.
- Contact the institutions you're interested in and talk to them about your options. You can start by looking at their websites.

Many tertiary institutions have school visit days so you can attend the campus, talk to lecturers and students, and get a feel for what a tertiary institution is like. Ask your teacher about these days or check the dates at the front of this booklet and organise to attend an open day with your parents or friends.

## BRAINSTORMING

Now that you've considered the questions in this section, use the worksheets that follow to organise your ideas and discover the areas of study that would suit you best. This will help you work out the courses that will help you achieve your goals. Fred and Laura did this exercise and the results are shown on the facing page.



## FRED AND LAURA

Fred and Laura's teachers have told them it's time to choose their subjects for Years 11 and 12, so they're exploring their options by doing some research.

**Fred** is keen to take his interest in sport further. His father has suggested he also look at business-related careers and his school careers adviser has suggested social sciences because his best marks are in these areas.

The table 'What are my options?' on pages 29–35 shows some options for Fred. Looking down the left column, which lists various interests, qualities and skills, there are several areas that could suit him. Fred is drawn to the following areas:

### Human Movement and Sport Sciences

Fred is interested in – and good at – sport and fitness. If his skills include being a good communicator, leader and motivator, and he's patient and enthusiastic, the second column shows that he could be a sport scientist, sports coach or trainer.

The third column shows that for these careers he could study sports coaching, sports management, anatomy and physiology or psychology. The table also shows which institutions offer these courses.

The most relevant subjects for him to study for the HSC are shown in the fourth column: Biology, Chemistry, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE), Physics and Modern History.

### Business, Commerce, Economics, Marketing and Management

Fred is interested in the stock market and business. His skills include being organised and independent, and he's good at leading, solving problems and critical thinking. Therefore, he could be a stockbroker, business analyst, accountant, banker or economist.

For these careers he could study banking, e-commerce or financial advising.

In addition to English and Mathematics Advanced, he would be wise to include Business Studies, Economics, Society and Culture, Business Services (B), Human Services (B) or Retail Services (B) in his HSC courses. However, to be eligible for an ATAR he can only include 2 units of Category B courses.

From their research it's clear that there are many exciting options for Fred and Laura's futures.

**Laura's** school took her class to an open day at the local university and she has spoken to her family about her ideas. Her teachers think she should develop her strengths in science-related subjects but she's also keen on looking at careers in art-related areas.

The table 'What are my options?' on pages 29–35 shows some options for Laura in the following areas:

### Earth and Environmental Sciences

Laura is interested in being outdoors, the environment, nature and animals. Her skills include being observant and resourceful, and she's good at design, science, working outdoors, critical thinking and solving problems. The second column shows that these interests and skills are useful to an environmental scientist, a conservationist, a forestry worker, an environmental officer, and an environmental or urban planner.

The third column shows that for these careers she could study climate change, conservation studies, environmental management or sustainability. The table also shows which institutions offer these courses.

The fourth column shows that the relevant HSC subjects she could study are Biology, Chemistry, Design and Technology, Earth and Environmental Science, Mathematics Advanced, Physics and Society and Culture.

### Creative and Performing Arts

Laura's skills include being creative, imaginative, organised and an independent worker, and she's good at drawing, art, making things, writing and solving problems. She could be an artist, animator or photographer, or she could use these professions as a stepping stone to becoming an art teacher.

For these careers, she could study animation, fine arts, graphic design, illustration, photography or visual arts.

In addition to English, for her HSC she could study Dance, Design and Technology, Drama, Music, Software Design and Development, Textiles and Design, Visual Arts and Entertainment Industry (B).





# Worksheet 1

The first step is to think about who you are: your interests, qualities and skills. Write these in the boxes below.

Then turn to the table 'What are my options?' on pages 29–35 and match your interests, qualities and skills with those in the left-hand column of the table. These are divided into study areas and you may find you match one particular area of study, or several.

## WHO AM I?

### What am I interested in?

---

---

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### My personal qualities are...

eg creative, organised, happy to work alone

---

---

---

### My skills are...

eg writing, listening, drawing, solving problems

---

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### Who inspires me? Why?

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### Who can I talk to?

Three people I could talk to about my choices:

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# Worksheet 2

The next step is to use the 'What are my options?' table on pages 29–35 to match your answers in Worksheet 1 with areas of study. Work your way across the sheet below, filling in each column from the information in the table.

In the final column you will end up with a list of subjects that best match your abilities and future plans.

	Areas of study that match my interests, qualities and skills	What careers use those skills?	What tertiary courses could I study?	What HSC courses could I choose?
Interests	<hr/> <hr/> <hr/> <hr/> <hr/>			<hr/> <hr/> <hr/> <hr/> <hr/>
Qualities	<hr/> <hr/> <hr/> <hr/> <hr/>			<hr/> <hr/> <hr/> <hr/> <hr/>
Skills	<hr/> <hr/> <hr/> <hr/> <hr/>			<hr/> <hr/> <hr/> <hr/> <hr/>

Selecting your HSC subjects?

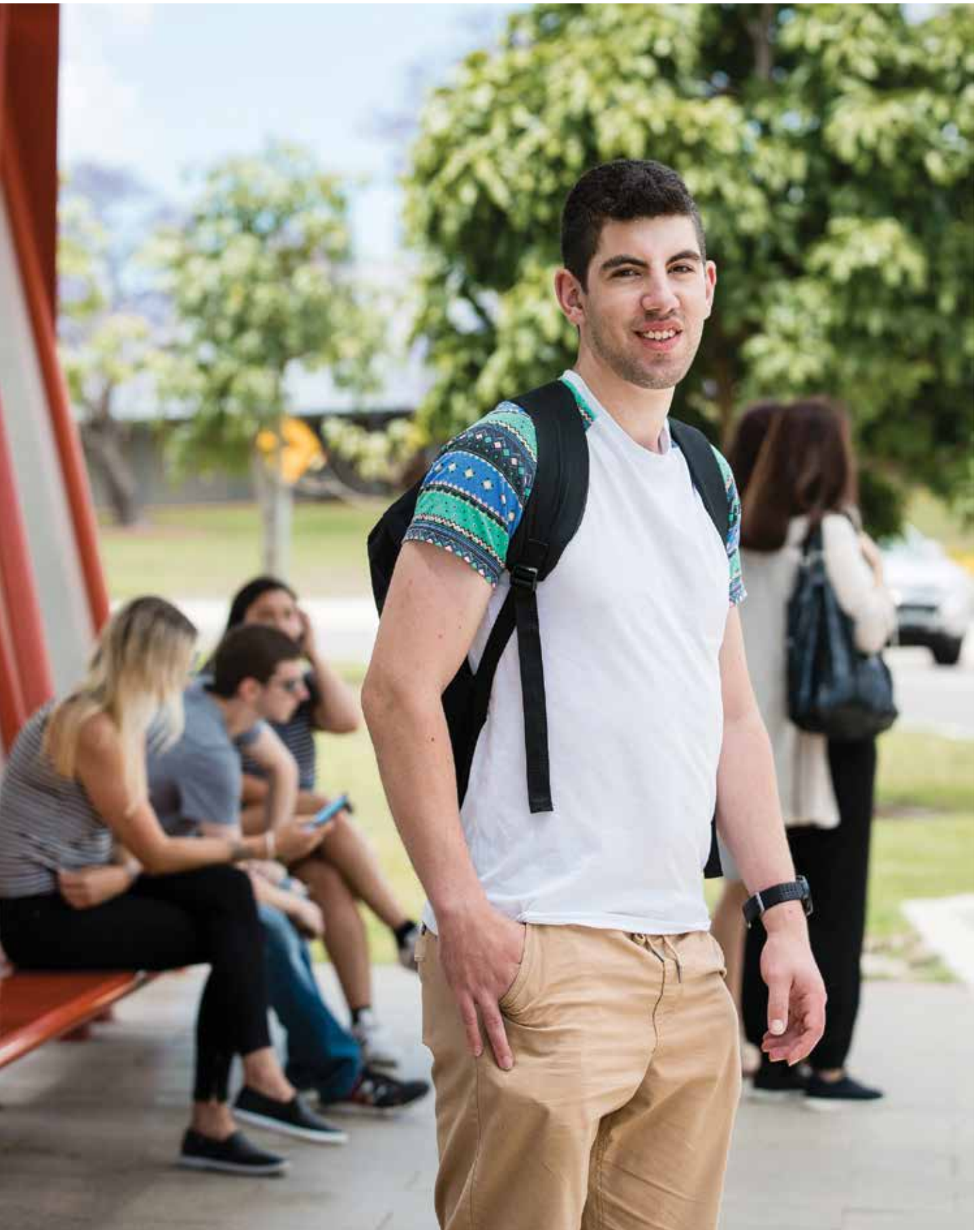
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## **STEP 2: EXPLORE**

Now that you're thinking about your interests, qualities and skills, it's time to explore the careers these could lead to, the courses you could study at uni and the HSC courses you could choose to begin your journey.







## WHAT ARE MY OPTIONS?

Using the worksheets on pages 24–25, the following table will help you map your interests, qualities and skills to careers, areas of tertiary study and HSC courses. (Category B courses are identified with a *B*.)

These lists are not meant to be exhaustive; they are only a summary of what's available. A full list of tertiary courses available each year is published on UAC's website and in the My UAC app.

### Key to institution names

ACAP	Australian College of Applied Psychology
ACU	Australian Catholic University
AMC	Australian Maritime College
ANU	Australian National University
CQU	CQUniversity
CSU	Charles Sturt University
GU	Griffith University
ICMS	International College of Management, Sydney
LTU	La Trobe University
MC	Macleay College
MIT	MIT Sydney
MQ	Macquarie University
NAS	National Art School
SAE	SAE Creative Media Institute
SCU	Southern Cross University
SIBT	SIBT
TOP	Top Education Institute
TUA	Torrens University Australia
UC	University of Canberra
UNE	University of New England
UNSW	UNSW Sydney
UNSW-ADFA	UNSW Canberra at ADFA
UON	University of Newcastle
UOW	University of Wollongong
USYD	University of Sydney
UTS	University of Technology Sydney
WS	Western Sydney University

My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<h3>Agriculture, Rural Studies and Animal Science</h3>			
<p><i>I'm interested in ...</i> the land, the environment, crop growing, farming, plants, animal health/welfare, horse training</p> <p><i>I'm ...</i> observant, confident with animals, organised, good with detail, patient</p> <p><i>... and I'm good at ...</i> making things, planning, problem solving, maths, technical drawing, manual work, working with animals</p>	<p><i>I could be an ...</i> animal handler, animal welfare officer, conservation manager, cyber security specialist, farmer, grazier, horticulturist, land manager, produce manager, stud manager/trainer, veterinarian, winemaker, wool classer</p>	<p><i>I could study ...</i> agribusiness, agricultural science, animal production science, crop production, cyber security, equine science and horse management, farm and land management, horticulture, networking, plant pathology, post-harvest technology, veterinary science/technology, viticulture and wine science, wool science, zoology</p>	<p><i>... and I could choose these HSC courses ...</i> Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography, Investigating Science, Mathematics Advanced, Physics, Primary Industries (B)</p>
Where can I study?		CQU, CSU, LTU, UNE, USYD, WS	
<h3>Architecture, Building, Design and Planning</h3>			
<p><i>I'm interested in ...</i> how things work, cityscapes, buildings, building design, architecture, gardens, landscapes</p> <p><i>I'm ...</i> artistic, imaginative, organised, good with detail, creative, orderly, conscientious</p> <p><i>... and I'm good at ...</i> making things, coming up with original ideas, drawing, designing, solving problems</p>	<p><i>I could be an ...</i> architect, building manager, construction manager, environmental planner, estimator, industrial designer, interior designer, landscaper, property valuer, surveyor</p>	<p><i>I could study ...</i> architecture, construction economics, construction/project management, construction technology, fashion design, industrial design, interior design, landscape architecture, property management, quantity surveying</p>	<p><i>... and I could choose these HSC courses ...</i> Design and Technology, Engineering Studies, Industrial Technology, Mathematics Advanced, Physics, Visual Arts, Construction (B)</p>
Where can I study?		CQU, GU, ICMS, MQ, SCU, TUA, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<h3>Arts and Humanities</h3>			
<p><i>I'm interested in ...</i> current affairs, social issues, politics, world events, languages, writing and literature, religions and cultures, history</p> <p><i>I'm ...</i> artistic, creative, adventurous, conscientious, efficient, industrious, resourceful, imaginative</p> <p><i>... and I'm good at ...</i> creative writing, debating, languages, solving problems, thinking critically, using technology</p>	<p><i>I could be an ...</i> analyst, anthropologist, archaeologist, archivist, foreign affairs officer, gallery curator, government policy officer, historian, journalist, language specialist, marketing manager, media officer, producer, researcher, social researcher, translator or interpreter</p>	<p><i>I could study ...</i> Aboriginal studies, archaeology, Asian studies, cinema studies, communications, English, international studies, languages, literature, media, modern/ancient history, philosophy, photography, political science, psychology, publishing, religious studies, social science, sociology, theology, women's studies</p>	<p><i>... and I could choose these HSC courses ...</i> Aboriginal Studies, English Advanced, Geography, History, International Studies, languages, Religion, Social Sciences, Society and Culture, Textiles and Design, Visual Arts</p>
Where can I study?		ACAP, ACU, ANU, CQU, CSU, GU, LTU, MQ, SAE, SCU, SIBT, TUA, UC, UNE, UNSW, UNSW-ADFA, UON, UOW, USYD, UTS, WS	
<h3>Business, Commerce, Economics, Marketing and Management</h3>			
<p><i>I'm interested in ...</i> politics, economics, business, international affairs, current affairs, finance and banking, statistics, accounting</p> <p><i>I'm ...</i> good with money, ethical, organised, persuasive, independent, outgoing</p> <p><i>... and I'm good at ...</i> leadership, mathematics, solving problems, showing initiative, critical thinking, logical thinking, negotiating</p>	<p><i>I could be an ...</i> accountant, auditor, banker, business adviser, business analyst, business consultant, economist, entrepreneur, financial analyst, financial planner, human resources manager, marketing specialist, project manager, stockbroker</p>	<p><i>I could study ...</i> accounting, actuarial studies, agribusiness, banking, business, e-commerce, financial advising, human resource management, industrial relations, international relations, management, marketing, property economics, statistics</p>	<p><i>... and I could choose these HSC courses ...</i> Business Studies, Economics, English, languages, Mathematics Advanced, Society and Culture, Business Services (B), Financial Services (B), Human Services (B), Retail Services (B)</p>
Where can I study?		ACU, AMC, ANU, CQU, CSU, GU, ICMS, LTU, MC, MIT, MQ, SCU, SIBT, TOP, TUA, UC, UNE, UNSW, UNSW-ADFA, UON, UOW, USYD, UTS, WS	

My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<b>Communications and Media Studies</b>			
<p><i>I'm interested in ...</i> current affairs, literature, popular culture, social media, world events, politics</p> <p><i>I'm ...</i> a good communicator, organised, imaginative, persuasive, creative, resourceful, an independent worker</p> <p><i>... and I'm good at ...</i> writing, public speaking, debating, thinking creatively, motivating people, analytical thinking, using initiative</p>	<p><i>I could be an ...</i> advertising account manager, commentator, editor, filmmaker, journalist, marketing manager, media officer, multimedia designer, presenter, producer, public relations manager</p>	<p><i>I could study ...</i> advertising, creative industries, film, information management, journalism, multimedia, photography, production, radio, television, video, writing</p>	<p><i>... and I could choose these HSC courses ...</i> English, History, Society and Culture, Visual Arts, Entertainment Industry (B)</p>
Where can I study?		ACU, ANU, CQU, CSU, GU, ICMS, LTU, MC, MQ, SAE, SCU, SIBT, TUA, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<b>Creative and Performing Arts</b>			
<p><i>I'm interested in ...</i> theatre, fashion, popular culture, music, photography, drawing, painting, graphic design, creating things, research</p> <p><i>I'm ...</i> creative, good with detail, imaginative, organised, a good communicator, an independent worker, outgoing</p> <p><i>... and I'm good at ...</i> dancing, acting, performing, making things, playing an instrument, writing, photography, working things (technical skills), solving problems, using initiative, writing</p>	<p><i>I could be an ...</i> animator, artist, cartoonist, composer, fashion designer, film director, graphic designer, illustrator, journalist, multimedia designer, musician, photographer, producer, songwriter, teacher, writer</p>	<p><i>I could study ...</i> animation, creative industries, creative writing, fashion, fine arts, graphic design, illustration, journalism, music, photography, theatre studies, visual arts</p>	<p><i>... and I could choose these HSC courses ...</i> English, Dance, Design and Technology, Drama, Music, Software Design and Development, Textiles and Design, Visual Arts, Entertainment Industry (B)</p>
Where can I study?		ACU, ANU, CSU, GU, LTU, MC, MQ, NAS, SAE, SCU, TUA, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<b>Earth and Environmental Sciences</b>			
<p><i>I'm interested in ...</i> being outdoors, the environment, nature, oceans, marine life, volcanoes, weather, waterways, diving, animals, bushwalking, science</p> <p><i>I'm ...</i> good with detail, organised, observant, resourceful</p> <p><i>... and I'm good at ...</i> mathematics, design, science, working alone, working outdoors, critical thinking, solving problems</p>	<p><i>I could be a ...</i> conservationist, environmental officer, environmental planner, environmental scientist, fisheries manager, food and drug safety officer, forestry worker, marine conservation officer, resource manager, urban planner</p>	<p><i>I could study ...</i> climate change, conservation studies, environmental rehabilitation studies, food sustainability, forestry, geography (human and physical), geology, geophysics, marine resource and environmental management, spatial science, sustainability</p>	<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, Design and Technology, Earth and Environmental Science, Mathematics Advanced, Physics, Investigating Science, Society and Culture</p>
Where can I study?		ACU, AMC, ANU, CQU, CSU, GU, LTU, MQ, SCU, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<b>Education and Teaching</b>			
<p><i>I'm interested in ...</i> helping others, being outdoors, social equality, teaching and learning, school, children</p> <p><i>I'm ...</i> active, a good communicator, patient, creative, organised, outgoing</p> <p><i>... and I'm good at ...</i> time management, leadership, English, maths, planning, presentation, thinking critically</p>	<p><i>I could be a ...</i> community educator, corporate trainer, early childhood teacher, primary teacher, secondary teacher</p>	<p><i>I could study ...</i> adult education, community education, early childhood teaching, human resource development, organisational learning, primary teaching, secondary teaching (specialising in a curriculum area)</p>	<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, English, Geography, History, languages, Investigating Science, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE), Physics, Society and Culture</p>
Where can I study?		ACU, CSU, GU, LTU, MQ, SCU, TUA, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	






My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<p><b>Engineering</b></p> <p><i>I'm interested in ...</i> maths, science, construction, electronics, computers, programming, mechanics, how things work, robotics</p> <p><i>I'm ...</i> organised, creative, good with detail, technically minded, patient, persistent, resourceful, analytical</p> <p><i>... and I'm good at ...</i> drawing, planning, computing, leadership, designing, solving problems</p>	<p><i>I could be a ...</i> chemical or materials engineer, civil engineer, construction manager, electrical engineer, industrial engineer, manufacturer, mechanical engineer, medical engineer, production engineer</p>	<p><i>I could study ...</i> civil, coastal systems, computer, construction, construction project management, electrical, environmental or mechanical engineering, gaming, medical engineering, engineering mechatronics, robotics, science, surveying, telecommunications</p>	<p><i>... and I could choose these HSC courses ...</i> Chemistry, Engineering Studies, Mathematics Advanced, Physics, Automotive (B), Construction (B), Electrotechnology (B), Information and Digital Technology (B), Metal and Engineering (B)</p>
Where can I study?		AMC, ANU, CQU, CSU, GU, LTU, MQ, SAE, SCU, SIBT, UC, UNSW, UNSW-ADFA, UON, UOW, USYD, UTS, WS	

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My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<p><b>Health Sciences</b></p> <p><i>I'm interested in ...</i> health, nutrition, food, how the body works, people, science, alternative medicines, helping others</p> <p><i>I'm ...</i> caring, curious, dependable, patient, a good communicator, critical thinker, organised, observant, open minded, good with people</p> <p><i>... and I'm good at ...</i> leadership, fine motor skills, solving problems, working with others, time management, listening, thinking critically, motivating people</p>	<p><i>I could be an ...</i> ambulance officer, audiologist, beauty therapist, chiroprapist, chiropractor, community health worker, data scientist, dentist, dietitian, doctor, medical scientist, nurse, nutritionist, occupational therapist, oral health therapist, paramedic, pharmacist, physiotherapist, planning and policy officer, pedorthist, podiatrist, radiographer, researcher (eg food, health, medical), speech therapist, sonographer</p>	<p><i>I could study ...</i> beauty therapy, biomedical sciences, Chinese medicine, chiropractic science, clinical science, dental science, digital health and analytics, global health, medical imaging, medical laboratory science, naturopathy, nuclear medicine, nutrition and dietetics, occupational therapy, oral health, osteopathy, pedorthics, paramedicine, physiotherapy, pharmacology, podiatry, radiography, speech therapy</p>	<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, Community and Family Studies, Food Technology, Investigating Science, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE), Physics</p>
Where can I study?		ACAP, ACU, ANU, CQU, CSU, GU, LTU, MQ, SCU, TUA, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<p><b>Human Movement and Sport Sciences</b></p> <p><i>I'm interested in ...</i> sport, coaching, fitness and exercise, how the body works, nutrition, biology, health, helping others, being outdoors</p> <p><i>I'm ...</i> a good communicator, patient, observant, organised, enthusiastic, supportive, persuasive, fit and healthy, confident, outgoing</p> <p><i>... and I'm good at ...</i> sports, public speaking, leadership, motivating others, fine motor skills, solving problems, teaching others, science</p>	<p><i>I could be a ...</i> disease prevention educator, exercise scientist, fitness counsellor, fitness trainer, exercise rehabilitation worker, exercise physiologist, medical researcher, medical scientist, occupational therapist, personal trainer, physiotherapist, sport scientist, sports coach, sports marketer, teacher</p>	<p><i>I could study ...</i> anatomy and physiology, exercise physiology, exercise science, physiotherapy, psychology, sports coaching, sports journalism, sports management, sports psychology</p>	<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, English, Investigating Science, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE), Physics</p>
Where can I study?		ACU, ANU, CQU, CSU, GU, LTU, ICMS, SCU, TUA, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<p><b>Information Technology and Information Systems</b></p> <p><i>I'm interested in ...</i> computers, internet, web technologies, social media, electronics, programming, designing</p> <p><i>I'm ...</i> organised, orderly, good with detail, persistent, level headed, happy to work alone</p> <p><i>... and I'm good at ...</i> computing, using technology, maths, solving problems, thinking logically, thinking creatively, making decisions</p>	<p><i>I could be a ...</i> computer programmer, digital media producer, game designer, graphic designer, filmmaker, illustrator, IT consultant, photographer, software developer, systems analyst, visual effects artist, web designer</p>	<p><i>I could study ...</i> computer science, computing, data science, digital business, electronics, information systems, information technology, programming, software engineering</p>	<p><i>... and I could choose these HSC courses ...</i> Business Studies, Design and Technology, English, Information and Digital Technology (B), Information Processes and Technology, Mathematics Advanced, Software Design and Development</p>
Where can I study?		ACU, ANU, CQU, CSU, GU, LTU, MIT, MQ, SAE, SCU, SIBT, UC, UNE, UNSW, UNSW-ADFA, UON, UOW, USYD, UTS, WS	
<p><b>Law</b></p> <p><i>I'm interested in ...</i> research, justice, fairness, equality, current affairs, politics, helping others</p> <p><i>I'm ...</i> outgoing, organised, observant, open minded, persistent, persuasive</p> <p><i>... and I'm good at ...</i> debating, public speaking, writing, researching, evaluating information, negotiating, logical thinking</p>	<p><i>I could be a ...</i> barrister, judge, legal adviser, legal officer, legal researcher, magistrate, police officer, politician, solicitor</p>	<p><i>I could study ...</i> conveyancing, justice studies, law, legal studies, paralegal studies, political studies</p>	<p><i>... and I could choose these HSC courses ...</i> Business Studies, Economics, English, Legal Studies, Society and Culture</p>
Where can I study?		ACU, ANU, CQU, CSU, GU, LTU, MQ, SCU, TOP, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	

My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<h3>Medical Sciences and Medicine</h3> <p><i>I'm interested in ...</i> the environment, health, nutrition, how the body works, people, science, alternative medicines, helping others, research, experimenting</p> <p><i>I'm ...</i> caring, patient, a good communicator, inventive, curious, organised, good with detail, observant</p> <p><i>... and I'm good at ...</i> leadership, fine motor skills, time management, making decisions, problem solving, working with others, listening</p>			
			<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, Community and Family Services, Mathematics Advanced, Physics, Investigating Science</p>
		<p>Where can I study?</p>	<p>ACU, ANU, CQU, CSU, GU, MQ, SCU, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS</p>

# Don't get lost in the system

Students are often lost, confused and unsupported at a university with large numbers in a class.

- BACHELOR OF INTERACTIVE MEDIA
- DIPLOMA OF BUSINESS
- BACHELOR OF BUSINESS
- BACHELOR OF BUSINESS (PROFESSIONAL ACCOUNTING)

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My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<b>Nursing and Midwifery</b>			
<p><i>I'm interested in ...</i> health care, helping others, how the body works, people, science, mothers and babies, childbirth</p> <p><i>I'm ...</i> caring, kind, a good communicator, dependable, supportive, responsible, tolerant, patient, organised</p> <p><i>... and I'm good at ...</i> using initiative, teamwork, working with others, listening</p>	<p><i>I could be an ...</i> aged care nurse, community health nurse, critical care nurse, disability care nurse, health administrator, Indigenous health nurse, mental health nurse, midwife, nurse, nurse educator, occupational health nurse, paediatric nurse, pharmaceutical sales rep, social and health policy officer, surgical nurse</p>	<p><i>I could study ...</i> aged care, behavioural and social sciences, health sciences, Indigenous culture, maternal and child care, mental health, midwifery, nursing (community, high-dependency, perioperative), palliative care, paediatrics, primary health care, medical/surgical nursing, rehabilitation</p>	<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, Community and Family Services, English, Investigating Science, Mathematics Advanced</p>
Where can I study?		ACU, CQU, CSU, GU, LTU, SCU*, TUA, UC*, UNE, UON*, UOW, USYD, UTS*, WS* <i>*Includes midwifery</i>	
<b>Science, Applied Science and Technology</b>			
<p><i>I'm interested in ...</i> chemistry, science, the environment, weather patterns, people and communities, marine life, space, astronomy, planes, research, computers, experimenting, animals, nature, psychology, farming</p> <p><i>I'm ...</i> curious, organised, creative, good with detail, observant, resourceful</p> <p><i>... and I'm good at ...</i> solving problems, critical thinking, leadership, mathematics, logical thinking, chemistry, biology</p>	<p><i>I could be an ...</i> aviation engineer, community worker, counsellor, data analyst, field researcher, geologist, laboratory technician, medical advocate, medical marketer, researcher, sports psychologist, urban planner, vet, zookeeper</p>	<p><i>I could study ...</i> agricultural science, applied studies, aviation science, biological science, chemistry, environmental science, equine science, food science or technology, forensics, horticulture, marine science, mathematics, medical science, nanotechnology, physics, psychology, statistics, technology, veterinary science, zoology</p>	<p><i>... and I could choose these HSC courses ...</i> Biology, Chemistry, Community and Family Services, Mathematics Advanced, Physics, Investigating Science</p>
Where can I study?		ACAP, ACU, AMC, ANU, CQU, CSU, GU, LTU, MQ, SCU, TUA, UC, UNE, UNSW, UNSW-ADFA, UON, UOW, USYD, UTS, WS	
<b>Social Sciences</b>			
<p><i>I'm interested in ...</i> people and communities, world events, current affairs, politics, health, social responsibility, immigration, policing, justice, fairness, working with people, helping others</p> <p><i>I'm ...</i> organised, a good communicator, curious, resourceful, fair, helpful</p> <p><i>... and I'm good at ...</i> critical thinking, making decisions, solving problems</p>	<p><i>I could be a ...</i> community care officer, legal practitioner, occupational therapist, social worker, vocational guidance counsellor, welfare support officer, welfare worker</p>	<p><i>I could study ...</i> behavioural science, commerce, criminology, geography, policing, policy studies, psychology, social ecology, sociology</p>	<p><i>... and I could choose these HSC courses ...</i> Community and Family Studies, Economics, English, Geography, Legal Studies, Mathematics Advanced, Modern History, Society and Culture</p>
Where can I study?		ACAP, ACU, ANU, CQU, CSU, GU, LTU, MQ, SCU, SIBT, UC, UNE, UNSW, UON, UOW, USYD, UTS, WS	
<b>Social Work and Welfare</b>			
<p><i>I'm interested in ...</i> people and cultures, health, social responsibility, fairness, helping others</p> <p><i>I'm ...</i> organised, caring, a good communicator, curious, resourceful, fair, helpful</p> <p><i>... and I'm good at ...</i> critical thinking, making decisions, solving problems</p>	<p><i>I could be an ...</i> aged care worker, child protection officer, community care officer, disability officer, migrant welfare officer, social worker, welfare support officer, welfare worker, youth worker</p>	<p><i>I could study ...</i> ageing, children and young people, health and disability, Indigenous studies, social policy, social research, social work, sociology, psychology, research skills, youth work</p>	<p><i>... and I could choose these HSC courses ...</i> Economics, English, Mathematics Advanced, Modern History, Society and Culture</p>
Where can I study?		ACAP, ACU, CQU, CSU, GU, LTU, MQ, SCU, UNE, UNSW, UON, UOW, USYD, WS	

My interests, qualities and skills	Careers that use my interests, qualities and skills	Tertiary courses I could study	HSC courses I could choose
<h3>Tourism, Hospitality and Event Management</h3> <p><i>I'm interested in ...</i> travel, people and cultures, world events, languages, helping others, being outdoors, being active</p> <p><i>I'm ...</i> organised, good with detail, a good communicator, confident, patient, persistent, sincere, friendly, flexible, punctual</p> <p><i>... and I'm good at ...</i> languages, leadership, planning, serving customers, solving problems, working with people from diverse backgrounds</p>			
<p><i>I could be an ...</i> environmental planner, event manager, hotel manager, resort manager, restaurateur, travel consultant, tour operator</p>			
<p><i>I could study ...</i> event management, hotel management, leisure studies, recreational management and planning, sport management, tourism management</p>			
<p><i>... and I could choose these HSC courses ...</i> Economics, English, languages, Mathematics Advanced, Society and Culture, Hospitality (B), Tourism, Travel and Events (B)</p>			
Where can I study?		ACU, CQU, CSU, GU, LTU, ICMS, MC, SCU, SIBT, TUA, UC, UON, UOW, UTS, WS	

## Selecting your HSC subjects?

ATAR eligibility

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## STEP 3: DECIDE

In the previous section you explored how your interests, qualities and skills may lead to certain careers and uni courses. Now it's time to decide on your HSC courses.





## HSC SUBJECTS AND COURSES

At this stage, don't focus on the ATAR you need for entry to a specific course as this could change once you are ready to apply. Think more about the courses or subject areas you are interested in and what will work best to help you get there. Open your mind to the multitude of possibilities.

This booklet discusses both HSC subjects and HSC courses. A subject is the general name given to an area of study. A course is a branch of study within a subject. A subject may have several courses. For example, the **subject** of English has the **courses** of English as an Additional Language or Dialect, English Studies, English Standard, English Advanced, English Extension 1 and English Extension 2. HSC subjects and HSC courses are listed in the table on pages 44–45.

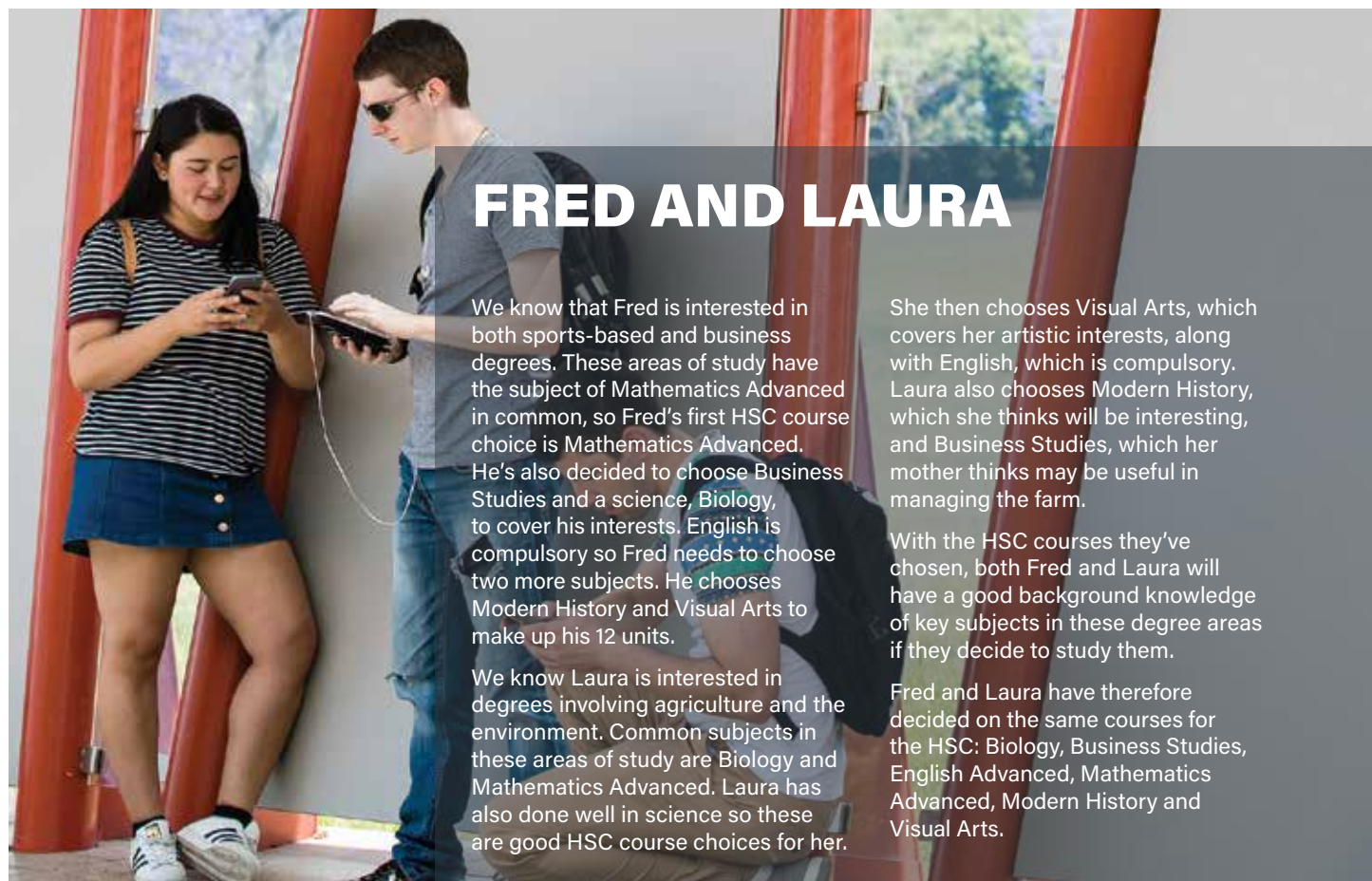
If you want to study at uni but don't have a particular degree in mind, choose HSC courses that make you eligible for an ATAR but also

give you flexibility. For example, if you like both science and history you could pick from the science and history subjects in Years 11 and 12 (eg Biology, Chemistry, Physics, Investigating Science, Ancient History and Modern History). You would then be prepared for further study in either subject. Keep your options open so that when you are more sure about what you want to do, you're already on the way to getting there.

If you're sure you don't want to go to university then your choice of courses for Years 11 and 12 will not be based on ATAR eligibility. But you may change your mind in the next couple of years, so it could still be a good idea to choose courses that make you eligible for an ATAR.

### Admission criteria

Some tertiary courses require you to have studied certain HSC courses, or their equivalent, or to have achieved a specific standard before you'll be offered a place in the course.



## FRED AND LAURA

We know that Fred is interested in both sports-based and business degrees. These areas of study have the subject of Mathematics Advanced in common, so Fred's first HSC course choice is Mathematics Advanced. He's also decided to choose Business Studies and a science, Biology, to cover his interests. English is compulsory so Fred needs to choose two more subjects. He chooses Modern History and Visual Arts to make up his 12 units.

We know Laura is interested in degrees involving agriculture and the environment. Common subjects in these areas of study are Biology and Mathematics Advanced. Laura has also done well in science so these are good HSC course choices for her.

She then chooses Visual Arts, which covers her artistic interests, along with English, which is compulsory. Laura also chooses Modern History, which she thinks will be interesting, and Business Studies, which her mother thinks may be useful in managing the farm.

With the HSC courses they've chosen, both Fred and Laura will have a good background knowledge of key subjects in these degree areas if they decide to study them.

Fred and Laura have therefore decided on the same courses for the HSC: Biology, Business Studies, English Advanced, Mathematics Advanced, Modern History and Visual Arts.

## FRED AND LAURA

With his main areas of interest being sport and business, Fred has looked at a couple of courses in these areas at some of the universities in his city and checked to see if there are prerequisites, assumed knowledge, recommended studies or any additional selection criteria. Fred has found that if he were to apply for a degree in sport or exercise management he would need to have Mathematics Advanced and any 2 units of English as assumed knowledge. Luckily, he has chosen Mathematics Advanced, and English is on his list because it's compulsory.

Laura has checked with the institution in her area about a degree in agriculture. It advises Biology and/or Chemistry as recommended studies with Mathematics Advanced as assumed knowledge. Laura has chosen both Biology and Mathematics Advanced so she is well prepared if she goes on to study this course.

If you're sure about what you want to study at uni, check you can answer the following questions about your course:

- Are there any prerequisites?
- Is there any assumed knowledge?
- Are there recommended studies?
- Are there any additional selection criteria?

These requirements can be found in the institution entries in Part 2 of this booklet. Part 2 is divided into main areas of study at each institution, so it's a good idea to check a couple of different institutions you're interested in for their requirements. Institutions can describe their admission criteria in different ways because they have different policies.

**English Standard and Mathematics Standard 2 are the most popular HSC courses.**

## CHOOSING COURSES

There are many different types of HSC courses, but only Category A and B courses can be included in the calculation of your ATAR. All HSC courses are listed in the table on pages 44–45.

### Category A courses

This is a general guide to HSC Category A subjects and courses accepted by institutions in NSW and the ACT for entrance purposes. Always check with the relevant institution to confirm the information.

### English

In NSW, studying English is compulsory and 2 units of English must be included in the calculation of your ATAR. In addition, some institutions require English as a subject prerequisite or course prerequisite. If you are considering studying English at tertiary level, English Advanced or English Extension 1 is usually recommended.

### **Agriculture, Biology, Chemistry, Earth and Environmental Science, Engineering Studies, Investigating Science, Physics, Science Extension**

If you wish to study a course based on science at tertiary level – for example, agriculture, engineering, natural resources, computing, medical or rural science – you are advised to study as much science and mathematics as you can at school. You can do this by taking as many science-based courses as you are able to handle within the HSC rules.

### **Mathematics**

A knowledge of mathematics is desirable for some tertiary courses. It is also recommended, along with physics, for all degree courses requiring a study of physics.

Ideally you should select either Mathematics Extension 1 or Mathematics Extension 2 if you wish to continue studying mathematics, mathematical statistics, actuarial studies or computer science beyond your first year at uni. These courses are the best preparation for the study of all branches of engineering and physics after the first year.

Mathematics Advanced (not Mathematics Standard 2) is recommended by most institutions as the minimum requirement for further study in a variety of subjects, including architecture, agricultural economics, biological sciences, business, chemistry, commerce, economics, geology, psychology, social sciences, statistics, and urban and regional planning.

**Mathematics Extension 1** – the unit value of this course changes depending on whether the course is taken in combination with Mathematics Advanced or Mathematics Extension 2, as follows:

- Mathematics Advanced (2 units) + Mathematics Extension 1 (1 unit)
- Mathematics Extension 1 (2 units) + Mathematics Extension 2 (2 units).

### **Languages (other than English)**

Most institutions offer courses in languages for first-year students who have no previous knowledge of the particular language.

If you are considering further study in a language, however, including the language in your HSC program is to your advantage. This may be essential if you intend to proceed to fourth-year honours in that language.

Also ask the relevant institution whether specific requirements have been set for the study of a language.

Beginners courses are accepted by all institutions for entrance purposes but are not recommended as preparation for study in that subject.

### **Ancient History, Economics, Geography, Modern History**

Any of these HSC courses may be included in your HSC program to satisfy tertiary entrance criteria. At tertiary level, however, they are taught on the assumption that students have not studied them previously.

### **Music**

Music can be included in your HSC program by studying Music 1, Music 2 or Music Extension. If you are considering further study in music, find out the minimum entry standard required. Some courses require an audition.

### **Visual Arts**

If you are considering further study in visual arts, find out the minimum entry standard required. Most courses require presentation of a portfolio of work. This is indicated under additional selection criteria in the areas of study for the institution.

**Aboriginal Studies; Business Studies; Community and Family Studies; Dance; Design and Technology; Drama; Food Technology; Industrial Technology; Information Processes and Technology; Legal Studies; Personal Development, Health and Physical Education (PDHPE); Society and Culture; Software Design and Development; Studies of Religion; Textiles and Design**

These HSC courses are accepted by all institutions for entrance purposes.



## Category B courses

Remember that only the best 2 units from your Category B courses are available for inclusion in the calculation of your ATAR.

## Courses that don't contribute to the ATAR

Board Endorsed courses (eg Photography, Video and Digital Imaging) are developed by schools or universities, rather than NESAs. They do not count towards the calculation of the ATAR but may provide valuable experience and knowledge in a specific subject area.

Life Skills courses, which are studied by students with special education needs, and HSC–University Pathways programs, for high-achieving students, are also not ATAR courses.

## Subject and course choice examples

Following are examples of possible subject combinations chosen by students for Years 11 and 12. Remember that you must have at least 2 units of English.

First, let's look at Fred and Laura's course choices.

Fred and Laura		
Course	Units	Category
Biology	2	A
Business Studies	2	A
English Advanced	2	A
Mathematics Advanced	2	A
Modern History	2	A
Visual Arts	2	A

Fred and Laura are eligible for an ATAR because they meet all the ATAR eligibility rules (read page 8). They are also undertaking 12 units. To be eligible for an ATAR you need to have 10 units of ATAR courses, so even if they drop a course (other than English) for Year 12 they will both still be eligible.

Emily		
Course	Units	Category
English Advanced	2	A
Mathematics Advanced	2	A
Geography	2	A
Financial Services	2	B
Hospitality	2	B
Tourism and Events	2	B

Emily is not eligible for an ATAR because she is studying 6 units of Category A courses and 6 units of Category B courses. No more than 2 units of Category B courses can be used in the calculation of the ATAR. She therefore only has 8 units of courses that can be used to calculate the ATAR. To be eligible for an ATAR you need to have 10 units of ATAR courses.

Joshua – Year 11		
Course	Units	Category
English Advanced	2	A
English Extension 1	1	A
Mathematics Advanced	2	A
Mathematics Extension 1	1	A
Chemistry	2	A
Biology	2	A
Ancient History	2	A

At the end of Year 11, Joshua decided to drop Chemistry and Biology and take on Mathematics Extension 2 and English Extension 2. Joshua's new pattern of study now looks like this:

Joshua – Year 12		
Course	ATAR units	Category
English Advanced	2	A
English Extension 1	1	A
English Extension 2	1	A
Mathematics Advanced	0	A
Mathematics Extension 1	2	A
Mathematics Extension 2	2	A
Ancient History	2	A

Even though Joshua is studying all Category A courses, he is not eligible for an ATAR.

To be eligible for an ATAR you must have completed four subjects. Joshua has only completed three subjects: English, Mathematics and Ancient History.

Joshua also needs to be aware that only 4 units of maths can be included in the ATAR calculation. So taking Mathematics Advanced, Mathematics Extension 1 and Mathematics Extension 2 means that 2-unit Mathematics Advanced will not be available for Joshua's ATAR calculation, even if he excels in it.

Jessica		
Course	Units	Category
English Standard	2	A
Business Studies	2	A
Legal Studies	2	A
Economics	2	A
Business Services	2	B
Hospitality	2	B

If Jessica keeps all her courses she will be eligible for an ATAR. But if Jessica drops a course this may change depending on which course she drops.

For example, if Jessica drops Business Services she will still be eligible for an ATAR as she still meets the ATAR eligibility rules of 8 units of Category A courses and 2 units of Category B courses.

But if Jessica decides to drop Legal Studies she will no longer be eligible for an ATAR as she will only have 6 units of Category A courses.



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# TOP TIPS FOR YEAR 10 STUDENTS CHOOSING HSC COURSES

- Make the link between your choices now and where you want to go after Year 12.
- If you want to get an ATAR, make sure you will be eligible. NSW Year 12 students must complete at least 10 units of ATAR courses. These ATAR courses must include at least:
  - 8 units of Category A courses
  - 2 units of English
  - three Board Developed courses of 2 units or greater
  - four subjects.
 You can include up to 2 units of Category B courses.
- Choose HSC courses that you're good at and interested in, and that will lay a foundation for your future plans. In particular, choose courses that will prepare you well for the areas of tertiary study you're planning to pursue.
- If you're not sure what level maths and English to take, choose the level that suits your ability and future plans, rather than trying to take advantage of how courses are scaled: you will not necessarily get a higher ATAR just by studying a lower level course. And be aware that while units often increase your selection rank in recognition of your performance in particular HSC courses (usually for Bands 5 and 6), they don't always reward your performance in the lower level courses, no matter how well you do.
- Just about any combination of courses can lead to a good ATAR; it all depends on how well you do in all your courses in comparison to other students.
- The following table addresses a number of scaling 'myths':

## SCALING MYTHS

	MYTH	FACT
 	<p>Some courses are always 'scaled up', therefore I should study those.</p> <p>-----</p> <p>Some courses are always 'scaled down', therefore I should avoid those.</p>	 <p>Marks are scaled according to a course's scaled mean. The scaled mean indicates the academic ability of the course candidature, which can change from year to year. Your scaled mark indicates your position within the course candidature. For most courses, your scaled mark will be lower than your HSC mark. To get the best possible position and maximise your scaled marks, select the courses you will do best in.</p>
	<p>I have to study 'hard' subjects to get high scaled marks.</p>	 <p>'Hard' is a subjective term. What is hard for one student could be easy for another. You need to make an individual choice. Students who achieve an ATAR of 99.95 have varied patterns of study.</p>
	<p>I should study a lower level maths to get a better ATAR.</p>	 <p>It's very difficult to predict which course will lead to a higher scaled mark. Your scaled mark depends on the scaled mean of the course and your position in the course. You might have a higher position in a lower level course, but this will be offset by a lower scaled mean. Choose the level of maths that best suits your plans for further study.</p>



- Check if the uni you want to go to, or the course you want to do, has prerequisites (these can include a high-level maths or English course) and assumed knowledge. Details are published in Part 2 of this booklet.
- To make good choices about what to study, work to the best of your ability and focus on your goals for life after school.

## **SUBJECT COMPASS**

Our new online tool – Subject Compass – can help you find your way to the HSC courses that are right for *you*.

Tell us about your interests and skills and we'll make some suggestions. Or simply enter your course choices to have your ATAR eligibility confirmed. Get started at [uac.edu.au/subjectcompass](http://uac.edu.au/subjectcompass).



# HSC BOARD DEVELOPED COURSES TO BE EXAMINED IN 2021

## Category A courses

Note: Some course names may change as a result of the Stronger HSC Standards reforms. For further information and updates, visit the NESA website at [educationstandards.nsw.edu.au](http://educationstandards.nsw.edu.au).

Number	Course name	Unit value	Subject area
15000	Aboriginal Studies	2	Aboriginal Studies
15010	Agriculture	2	Agriculture
15020	Ancient History	2	Ancient History
15280	History Extension <sup>1</sup>	1	Ancient History
15030	Biology	2	Biology
15040	Business Studies	2	Business Studies
15050	Chemistry	2	Chemistry
15060	Community and Family Studies	2	Community and Family Studies
15070	Dance	2	Dance
15080	Design and Technology	2	Design and Technology
15090	Drama	2	Drama
15100	Earth and Environmental Science	2	Earth and Environmental Science
15110	Economics	2	Economics
15120	Engineering Studies	2	Engineering Studies
15155	English as an Additional Language or Dialect	2	English
15130	English Standard	2	English
15140	English Advanced	2	English
15160	English Extension 1	1	English
15170	English Extension 2	1	English
15180	Food Technology	2	Food Technology
15190	Geography	2	Geography
15200	Industrial Technology	2	Industrial Technology
15210	Information Processes and Technology	2	Information Processes and Technology
15215	Investigating Science	2	Investigating Science
15220	Legal Studies	2	Legal Studies
15235	Mathematics Standard 2	2	Mathematics
15240	Mathematics Advanced	2	Mathematics
15250	Mathematics Extension 1 <sup>2</sup>	1/2	Mathematics
15260	Mathematics Extension 2	2	Mathematics
15270	Modern History	2	Modern History
15280	History Extension <sup>1</sup>	1	Modern History
15290	Music 1	2	Music
15300	Music 2	2	Music
15310	Music Extension <sup>3</sup>	1	Music
15320	Personal Development, Health and Physical Education	2	Personal Development, Health and Physical Education
15330	Physics	2	Physics
15345	Science Extension	1	Science
15350	Society and Culture	2	Society and Culture
15360	Software Design and Development	2	Software Design and Development
15370	Studies of Religion I <sup>4</sup>	1	Studies of Religion
15380	Studies of Religion II <sup>4</sup>	2	Studies of Religion
15390	Textiles and Design	2	Textiles and Design
15400	Visual Arts	2	Visual Arts

Number	Course name	Unit value	Subject area
<b>LANGUAGES</b>			
15500	Arabic Beginners	2	Arabic
15510	Arabic Continuers	2	Arabic
15520	Arabic Extension	1	Arabic
15530	Armenian Continuers	2	Armenian
15540	Chinese Beginners	2	Chinese
15550	Chinese Continuers	2	Chinese
15557	Chinese in Context	2	Chinese
15565	Chinese and Literature	2	Chinese
15570	Chinese Extension	1	Chinese
15580	Classical Greek Continuers	2	Classical Greek
15590	Classical Greek Extension	1	Classical Greek
15600	Classical Hebrew Continuers	2	Classical Hebrew
15610	Classical Hebrew Extension	1	Classical Hebrew
15620	Croatian Continuers <sup>5</sup>	2	Croatian
15640	Dutch Continuers	2	Dutch
15660	Filipino Continuers	2	Filipino
15670	French Beginners	2	French
15680	French Continuers	2	French
15690	French Extension	1	French
15700	German Beginners	2	German
15710	German Continuers	2	German
15720	German Extension	1	German
15730	Hindi Continuers	2	Hindi
15740	Hungarian Continuers	2	Hungarian
15750	Indonesian Beginners	2	Indonesian
15760	Indonesian Continuers	2	Indonesian
15767	Indonesian in Context	2	Indonesian
15775	Indonesian and Literature <sup>6</sup>	2	Indonesian
15780	Indonesian Extension	1	Indonesian
15790	Italian Beginners	2	Italian
15800	Italian Continuers	2	Italian
15810	Italian Extension	1	Italian
15820	Japanese Beginners	2	Japanese
15830	Japanese Continuers	2	Japanese
15837	Japanese in Context	2	Japanese
15845	Japanese and Literature	2	Japanese
15850	Japanese Extension	1	Japanese
15860	Khmer Continuers	2	Khmer
15870	Korean Beginners	2	Korean
15880	Korean Continuers	2	Korean
15887	Korean in Context	2	Korean
15895	Korean and Literature	2	Korean
15900	Latin Continuers	2	Latin
15910	Latin Extension	1	Latin
15940	Macedonian Continuers <sup>5</sup>	2	Macedonian
15950	Malay Background Speakers <sup>6</sup>	2	Malay
15960	Maltese Continuers	2	Maltese

Number	Course name	Unit value	Subject area
15970	Modern Greek Beginners	2	Modern Greek
15980	Modern Greek Continuers	2	Modern Greek
15990	Modern Greek Extension	1	Modern Greek
16000	Modern Hebrew Continuers	2	Modern Hebrew
16010	Persian Background Speakers	2	Persian
16020	Polish Continuers	2	Polish
16030	Portuguese Continuers	2	Portuguese
16035	Punjabi Continuers	2	Punjabi
16045	Russian Continuers	2	Russian
16050	Serbian Continuers <sup>5</sup>	2	Serbian
16070	Spanish Beginners	2	Spanish
16080	Spanish Continuers	2	Spanish
16090	Spanish Extension	1	Spanish
16100	Swedish Continuers	2	Swedish
16110	Tamil Continuers	2	Tamil
16120	Turkish Continuers	2	Turkish
16130	Ukrainian Continuers	2	Ukrainian
16140	Vietnamese Continuers	2	Vietnamese

### Category B courses

Number	Course name <sup>7</sup>	Unit value	Subject area
26099	Automotive (Examination)	2	Automotive
26199	Business Services (Examination)	2	Business Services
26299	Construction (Examination)	2	Construction
26399	Electrotechnology (Examination)	2	Electrotechnology
30116	English Studies (Examination)	2	English
26499	Entertainment Industry (Examination)	2	Entertainment Industry
27299	Financial Services (Examination)	2	Financial Services
26599	Hospitality (Examination)	2	Hospitality
27199	Human Services (Examination)	2	Human Services
27399	Information and Digital Technology (Examination)	2	Information and Digital Technology
30130	Mathematics Standard 1 (Examination)	2	Mathematics
26799	Metal and Engineering (Examination)	2	Metal and Engineering
27899	Primary Industries (Examination)	2	Primary Industries
26999	Retail Services (Examination)	2	Retail Services
27499	Tourism, Travel and Events (Examination)	2	Tourism, Travel and Events

## BOARD ENDORSED COURSES (CONTENT ENDORSED COURSES)

These courses cannot be included in your ATAR calculation.

Course name	Unit value	Subject area
Aboriginal Languages	1 or 2	Aboriginal Languages
Ceramics	1 or 2	Ceramics
Computing Applications	1 or 2	Computing Applications
Exploring Early Childhood	1 or 2	Exploring Early Childhood
Marine Studies	1 or 2	Marine Studies
Photography, Video and Digital Imaging	1 or 2	Photography, Video and Digital Imaging
Sport, Lifestyle and Recreation Studies	1 or 2	Sport, Lifestyle and Recreation Studies
Visual Design	1 or 2	Visual Design
Work Studies	1 or 2	Work Studies

### NOTES

1. You can study both Ancient History and Modern History, but there is only one History Extension course. It is considered a course within the subject of either Modern History or Ancient History.
2. The unit value of this course changes depending on whether the course is taken in combination with Mathematics or Mathematics Extension 2.
3. You must study Music 2 if you wish to study Music Extension.
4. You may study either Studies of Religion I or Studies of Religion II, but not both.
5. You may study only one of the following languages: Croatian continuers, Macedonian continuers, Serbian continuers.
6. You can count only one of Malay Background Speakers or Indonesian and Literature in your pattern of study.
7. An optional HSC written examination in these courses is offered to eligible students. Subject to ATAR rules, you must undertake the optional written examination to have the results from this course available for inclusion in the calculation of your ATAR. Check with your school or the NESA website at [educationstandards.nsw.edu.au](http://educationstandards.nsw.edu.au) for more information.



## **PART 2: INSTITUTION CRITERIA**

In this section, UAC's participating institutions have listed the courses they plan to offer in 2022.





Under each course listed on the following pages, institutions have provided, where relevant, details of the following:

- areas of study within the course
- additional selection criteria
- prerequisites
- assumed knowledge
- recommended studies.

If these details are not provided under the course heading, there is no specific information you need to keep in mind when choosing your HSC courses.

Note that if an institution requires you to have studied a specific course in your HSC, the full name of the course is stated (eg Mathematics Extension 1). Refer to pages 44-45 for a list of HSC Board Developed courses.

In some subject areas, more than one course may meet the requirements. When this occurs, institutions have not listed all of the courses they accept, but you can assume they will accept extension courses and courses in the same subject area that challenge higher order thinking. For example, if institutions accept Mathematics Advanced they also accept Mathematics Extension 1 or Mathematics Extension 2, but not Mathematics Standard 2.

If the institution does not require you to have studied a specific level in your HSC, it is stated as 'any 2 units of'. For example, where you read 'any 2 units of English', this means that any 2-unit English course is acceptable. Institutions that ask for 'any 2 units of science' indicate what courses this includes at the beginning of their entry.

## PREREQUISITES

Prerequisites are HSC courses (or equivalent) you must have studied in order to be considered for admission to certain tertiary courses. There are course prerequisites and subject prerequisites. There are also a small number of courses that require applicants to have completed post-Year 12 studies (eg a Diploma of Nursing).

### Course prerequisites

Some tertiary courses require you to have successfully completed, or achieved a specified standard in, an HSC course or equivalent before you'll be offered a place in the course. If you do not have the required course prerequisites, you cannot be selected for the course even though you may have met the other admission criteria.

Not all institutions have course prerequisites. Of those that do, some specify a performance band you must have achieved in your HSC course.

### Subject prerequisites

Some subjects in a tertiary course require you to have successfully completed, or achieved a specified standard in, an HSC course or equivalent before you are able to enrol in those particular subjects.

If you do not have the required subject prerequisites but have met the admission criteria for the course, you can still be selected for the course, but you may be unable to take the particular subject within the course.

Contact the relevant institution for details of any specified levels of achievement that are required and bridging or introductory courses that can help you achieve the required standard.



## **ADDITIONAL SELECTION CRITERIA**

Some courses have additional selection criteria. You may need to provide a personal statement, answer a questionnaire, present a portfolio of work, attend an audition or interview, or sit a test such as the University Clinical Aptitude Test (UCAT).

## **ASSUMED KNOWLEDGE**

Some institutions assume you have a knowledge of specific HSC courses or equivalent before you begin the course. If you don't have the assumed level of knowledge but do have a suitable ATAR, you can still be selected for the course but you may have difficulty coping with your studies.

Some institutions offer bridging or introductory courses to help you achieve the required level of assumed knowledge – contact the relevant institution for details.

## **RECOMMENDED STUDIES**

These are HSC or equivalent courses that the institutions suggest will help you in your chosen tertiary course. If you have not studied these HSC courses, your chances of selection are not affected, but you may be offered a bridging course.



## GET IN TOUCH

AskACU Centre, Australian Catholic University  
Locked Bag 2002, Strathfield NSW 2135

**telephone:** 1300 ASK ACU (1300 275 228)  
**email:** futurestudents@acu.edu.au

## In person

### Strathfield campus (Mt St Mary)

Student Centre, 25A Barker Road  
Strathfield NSW 2135

### North Sydney campus (MacKillop)

Student Centre, 40 Edward Street  
North Sydney NSW 2060

### Canberra campus (Signadou)

Student Centre, 223 Antill Street  
Watson ACT 2602

## READ THIS FIRST

- When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.
- Where a course is offered at the Canberra campus, both the NSW and ACT subject requirements are listed.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ACCOUNTING AND FINANCE

**Areas of study:** Accounting information systems, auditing, corporate accounting, entrepreneurial finance, financial accounting, financial instruments, financial risk management, management accounting, portfolio management, principles of finance, strategic management accounting.

**Course prerequisites:** Any 2 units of English.

## ARTS

### Humanities

**Areas of study:** Business studies, communications, computing, creative writing, criminology, drama, economics, education studies, geography, graphic design, history, international development studies, literature, mathematics, philosophy, politics and international relations, psychology, sociology, study of religions, theological studies, visual arts.

**Assumed knowledge:** Any 2 units of English.

*For mathematics:* Any 2 units of mathematics (other than Mathematics Standard 2).

### Biomedical Science

**Areas of study:** Biomedical sciences.

**Course prerequisites:** Any 2 units of English, any 2 units of mathematics.

## BUSINESS ADMINISTRATION

**Areas of study:** Business law, economics, human resource management, international business, managing entrepreneurship and innovation, managing organisational change, marketing, organisational behaviour, strategic management.

**Course prerequisites:** Any 2 units of English.

## BUSINESS/COMMERCE AND MANAGEMENT

**Areas of study:** Accounting; business law; entrepreneurship; event management; finance; human resource management; Indigenous business studies; international business; management; marketing; occupational health, safety and environmental management.

**Course prerequisites:** Any 2 units of English.

## EDUCATION

### Early Childhood Education (Birth to Five Years)

#### Strathfield/North Sydney

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

#### Canberra

**Course prerequisites:** Nil.

### Education (Early Childhood and Primary)

#### Strathfield/North Sydney

**Course prerequisites:** Three Band 5 HSC results, including English.

**Assumed knowledge:** Any 2 units of mathematics.

#### Canberra

**Assumed knowledge:** ACT: English (T) (Major), any mathematics (T) (Major) NSW: English Advanced, any 2 units of mathematics.

### Education (Primary)

#### Strathfield/North Sydney

**Assumed knowledge:** Three Band 5 HSC results, including English, any 2 units of mathematics.

#### Canberra

**Assumed knowledge:** ACT: English (T) (Major), any mathematics (T) (Major) NSW: English Advanced, any 2 units of mathematics (other than Mathematics Standard 2).

### Inclusive Education and Disability Studies

**Areas of study:** Community services, disability studies and school education.

### Education (Secondary) – Exercise Science

#### Canberra

**Areas of study\*:** Business studies, computing, economics, geography, history, literature, mathematics, modern languages, music, study of religions, visual arts.

**Assumed knowledge:** ACT: English (T) (Major), any mathematics (T) (Major) NSW: English Advanced, any 2 units of mathematics.

\* With the exception of study of religion, all areas of study are completed in partnership with ANU.

## Education (Secondary) – Humanities

### Strathfield

**Areas of study:** Computing, drama, economics, geography, history, literature, mathematics, sociology, study of religions, visual arts.

**Assumed knowledge:** Three Band 5 HSC results, including English, *For mathematics:* Any 2 units of mathematics (other than Mathematics Standard 2).

### Canberra

**Areas of study:** Business studies, geography, history, literature, mathematics, modern languages, music, study of religions, visual arts.

**Assumed knowledge:** *ACT:* English (T) (Major), SOSE (T) (Major) (subject in the area of Studies of Society and Environment). *NSW:* English Advanced. *For mathematics:* any 2 units of mathematics (other than Mathematics Standard 2).

## Education (Secondary) – Mathematics

### Strathfield

**Areas of study:** Computing, drama, economics, geography, literature, mathematics, study of religions, visual arts.

**Assumed knowledge:** Three Band 5 HSC results, including English. *For mathematics:* Mathematics Advanced.

## Education (Secondary) – Technology

### Strathfield

**Areas of study:** Computing, design and technology (common), food technology, industrial technology, textiles and design.

**Assumed knowledge:** Three Band 5 HSC results, including English.

## Education (Secondary) – Visual Arts

### Strathfield

**Areas of study:** Business studies, computing, drama, economics, geography, history, literature, mathematics, study of religions, visual arts.

**Assumed knowledge:** Three Band 5 HSC results, including English. *For mathematics:* Mathematics Advanced.

**Recommended studies:** Visual Arts.

## EXERCISE AND SPORTS SCIENCE

### EXERCISE SCIENCE\*

**Areas of study:** Exercise, sports science.

**Recommended studies:** English Advanced, any 2 units of mathematics, Personal Development, Health and Physical Education (PDHPE), plus one of Biology, Chemistry or Physics.

\* Only available as a combined degree option – refer to Combined degrees at the end of the ACU entry.

## GLOBAL STUDIES

Only available as a combined degree option – refer to Combined degrees at the end of the ACU entry.

## HIGH PERFORMANCE SPORT

**Areas of study:** Coaching, exercise, sports science.

**Course prerequisites:** Any 2 units of English.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE), any 2 units of mathematics, plus one of Biology, Chemistry or Physics.

## HUMAN SERVICES

**Areas of study:** Social and behavioural science, welfare and disadvantage.

**Course prerequisites:** Any 2 units of English.

## INTERNATIONAL DEVELOPMENT STUDIES

**Areas of study:** Communication, economics, geography, global studies, international development studies, legal and management studies, politics and international relations, sociology.

**Assumed knowledge:** Any 2 units of English.

## LAWS

**Course prerequisites:** Any 2 units of English.

## NURSING

**Areas of study:** Nursing.

## NUTRITION SCIENCE

**Areas of study:** Nutrition.

**Course prerequisites:** Any 2 units of English.

## OCCUPATIONAL THERAPY

**Areas of study:** Occupational therapy.

**Course prerequisites:** Any 2 units of English plus at least one of Biology, Chemistry, Physics or Personal Development, Health and Physical Education (PDHPE).

## PARAMEDICINE

**Areas of study:** Paramedicine.

## PHILOSOPHY

**Areas of study:** Philosophy.

## PHYSICAL ACTIVITY AND HEALTH SCIENCE

**Areas of study:** Health science, physical activity.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE), any 2 units of mathematics, plus one of Biology, Chemistry or Physics.

## PHYSIOTHERAPY

**Areas of study:** Physiotherapy.

**Course prerequisites:** Any 2 units of English plus one of Biology, Chemistry or Physics.

## PSYCHOLOGICAL SCIENCE

**Areas of study:** Psychology.

**Course prerequisites:** English Standard (Band 3) or English as an Additional Language (EAL) (Band 4).

## PSYCHOLOGY (HONOURS)

**Areas of study:** Psychology.

**Course prerequisites:** Any 2 units of English.

## SOCIAL WORK

**Areas of study:** Human rights, social and behavioural sciences, social policy, social work.

**Course prerequisites:** *ACT:* English (T) (Major) *NSW:* Any 2 units of English.

## SPEECH PATHOLOGY

**Areas of study:** Speech pathology.

**Course prerequisites:** Any 2 units of English plus at least one of Biology, Chemistry, Physics, Personal Development, Health and Physical Education (PDHPE).

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## SPORT AND OUTDOOR EDUCATION

**Areas of study:** Sport, exercise and outdoor education.

**Course prerequisites:** Any 2 units of English.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE), any two unit of mathematics, plus one of Biology, Chemistry or Physics.

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## THEOLOGY

**Areas of study:** Ancient languages, biblical studies, early Christian studies, interreligious dialogue, liturgy and sacraments, ministry, moral theology, philosophy and liberal arts, systematic theology/contemporary Christian thought, world religions.

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## VISUAL ARTS AND DESIGN

**Areas of study:** 3D/4D object design, art and design history and theory, drawing, graphic design, painting photography, printmaking, sculpture plus areas of study within Arts (business studies, communication, computing, drama, economics, education studies, geography, history, literature, mathematics, philosophy, politics and international relations, psychology, sociology, study of religions, theological studies, visual arts).

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Visual Arts.

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## COMBINED DEGREES

If you intend to undertake combined degrees, check the prerequisites, assumed knowledge and recommended studies for both degrees.

Contact the University for further details.

- Arts/Commerce
- Biomedical Science/Business Administration
- Commerce/Business Administration
- Exercise Science/Business Administration
- Information Technology/Business Administration
- Nursing/Business Administration
- Nursing/Counselling
- Nursing/Paramedicine
- Nutrition Science/Business Administration
- Psychological Science/Arts
- Psychological Science/Commerce
- Psychological Science/Exercise and Sports Science
- Theology/Philosophy.

### Global Studies

- Arts/Global Studies
- Business Administration/Global Studies
- Commerce/Global Studies
- Laws/Global Studies
- Theology/Global Studies.

**Course prerequisites:** Refer to the relevant entry for the other area of study.

### Laws

- Arts/Laws
- Business Administration/Laws
- Biomedical Science/Laws
- Commerce/Laws
- Laws/Global Studies
- Psychological Science/Laws
- Theology/Laws.

**Course prerequisites:** Refer to the relevant entry for the other area of study.





## AUSTRALIAN COLLEGE OF APPLIED PSYCHOLOGY

acap.edu.au

CRICOS provider number 01328A RTO: 0500



### GET IN TOUCH

Australian College of Applied Psychology  
Locked Bag 11, Strawberry Hills NSW 2012

**telephone:** 1800 061 199  
**email:** connect@acap.edu.au

### in person

Level 11, 255 Elizabeth Street, Sydney NSW 2000

*Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.*

### CASE MANAGEMENT (DIP)

**Areas of study:** Community case management facilitation, assessment and analysis.

**Recommended studies:** Any 2 units of English.

### COUNSELLING

**Areas of study:** Conflict resolution; counselling skills and theory; developmental psychology; mental health policy and practice; social, legal and ethical frameworks.

**Recommended studies:** Any 2 units of English.

### PSYCHOLOGICAL SCIENCE

**Areas of study:** Criminology, intercultural diversity and Indigenous psychology, learning and memory, perception and cognition, psychology, psychopathology, social psychology.

**Recommended studies:** Mathematics Advanced, any 2 units of English.

### SOCIAL WORK

**Areas of study:** Contemporary society; government, public policy and civil society; human services; psychology; social work.

**Recommended studies:** Any 2 units of English.

## AUSTRALIAN MARITIME COLLEGE

amc.edu.au

CRICOS provider number 00586B



### GET IN TOUCH

Australian Maritime College  
University of Tasmania, Maritime Way Newnham TAS 7248

**telephone:** 1300 363 864  
**email:** courseinfo@utas.edu.au

### in person

Prospective Student Adviser, Australian Maritime College  
Student Centre, Newnham TAS 7248

### READ THIS FIRST

– When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.

*Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.*

### APPLIED SCIENCE

#### Marine Engineering

#### Nautical Science

**Course prerequisites:** Mathematics Standard 2, Physics or Chemistry.

**Recommended studies:** Mathematics Advanced, English, Physics or Chemistry.

### BUSINESS

#### Global Logistics and Maritime Management

**Areas of study:** Maritime economics, port and terminal management, ship operations management.

### ENGINEERING

#### Engineering (Specialisation) with Honours

**Areas of study:** Marine and offshore engineering, naval architecture, ocean engineering.

**Course prerequisites:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Mathematics Extension 1 plus Physics and Chemistry.

*Bridging courses in mathematics, physics and chemistry are available for students who have not completed these subjects. Visit [utas.edu.au/foundation-units](http://utas.edu.au/foundation-units) for further information.*

## GET IN TOUCH

Domestic Admissions Office  
The Australian National University  
Di Riddell Student Centre, 154 University Avenue, Canberra ACT 2600

**telephone:** freecall 1800 620 032  
**email via:** [anu.edu.au/contact-anu](mailto:anu.edu.au/contact-anu)

## READ THIS FIRST

Where a course is offered at the Canberra campus, both the NSW and ACT prerequisite subject requirements are listed. In addition to meeting the academic requirements for your preferred course, applicants to ANU will be required to meet the:

- **mathematics and English requirement.** Literacy and numeracy skills better equip you to excel at ANU and beyond. You'll meet this requirement if you can demonstrate that during Year 11 or Year 12 you enrolled in and passed one English subject taught over at least one semester, and one mathematics subject taught over at least one semester
- **co-curricular or service requirement.** The skills and knowledge you gain outside of the classroom is invaluable and lead to better graduate outcomes. During your application to ANU you'll provide information on the co-curricular or service activities you have completed during Years 10, 11 or 12.

To learn more about these requirements, see: [anu.edu.au/study/apply](http://anu.edu.au/study/apply).

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### ACCOUNTING

**Areas of study:** Accounting.  
**Assumed knowledge:** ACT: Mathematical Methods (Major)  
NSW: Mathematics Advanced.

### ACTUARIAL STUDIES

**Areas of study:** Accounting, actuarial studies, economics, finance, statistics.  
**Course prerequisites:** ACT: Specialist Mathematics (Major/Minor) (160+) NSW: Mathematics Extension 1 (Band E3).  
**Recommended studies:** ACT: Specialist Mathematics (Double Major)  
NSW: Mathematics Extension 2.

### ADVANCED COMPUTING

**Areas of study:** Artificial intelligence, computer science, cyber security, intelligent systems, programming, systems and architecture, theoretical computer science.  
**Course prerequisites:** ACT: Mathematical Methods (Major)  
NSW: Mathematics Advanced.  
**Recommended studies:** ACT: Specialist Mathematics (Major/Minor)  
NSW: Mathematics Extension 1.

### ADVANCED COMPUTING (RESEARCH AND DEVELOPMENT)

**Areas of study:** Advanced programming, artificial intelligence, computer science, cyber security, intelligent systems, research projects, systems and architecture, theoretical computer science.  
**Course prerequisites:** ACT: Specialist Mathematics (Major/Minor)  
NSW: Mathematics Extension 1.  
**Recommended studies:** ACT: Specialist Mathematics (Double Major)  
NSW: Mathematics Extension 2.

### APPLIED DATA ANALYTICS

**Areas of study:** Computation, computing, data analytics, data science, policy, programming, social science, sociology, statistics.  
**Assumed knowledge:** ACT: Mathematical Methods (Major)  
NSW: Mathematics Advanced.

### ARTS

Archaeological Practice  
Art History and Curatorship  
Classical Studies  
Criminology  
Development Studies  
European Studies  
International Relations  
Languages  
Middle Eastern and Central Asian Studies  
Public Policy  
Political Science

**Areas of study:** Ancient Greek; ancient history; anthropology; Arabic; archaeology; art history; art theory; Asian history; Asian studies; Asia-and-Pacific culture; Australian Indigenous studies; biological anthropology; Chinese language; Chinese studies; contemporary Europe; criminology; development studies; digital humanities; economic studies; English; environmental studies; French language and culture; gender, sexuality and culture; geography; German language and culture; Hindi language; history; human evolutionary biology; human rights; India studies; Indonesian language; Indonesian studies; international communications; international relations; Italian language and culture; Japanese language; Japanese linguists; Japanese studies; Korean language; Korean studies; Latin; Latin American studies; linguistics; mathematics; Middle Eastern and Central Asian studies; music; music technology; Northeast Asia studies; Persian; philosophy; political science; psychology; Sanskrit language; screen studies; sociology; Southeast Asian studies; Spanish; technology, networks and society; Thai language; Vietnamese language; war studies.

### Politics, Philosophy and Economics

**Assumed knowledge:** ACT: Mathematical Methods (Major)  
NSW: Mathematics Advanced.

## ASIAN STUDIES

**Areas of study:** Anthropology; Arabic; archaeology; Asian and Pacific culture, media and gender; Asian and Pacific linguistics; Asian history; Asia-Pacific politics; Asia-Pacific security studies; Burmese language; Chinese language; Chinese studies; French language and culture; Hindi language; historical international security; India studies; Indonesian language; Indonesian studies; Japanese language; Japanese linguistics; Japanese studies; Korean language; Korean studies; Mongolian language; Northeast Asian studies; Pacific studies; peace and conflict studies; Sanskrit language; South Asian studies; Southeast Asian studies; Spanish language; Tetum language; Thai language; Vietnamese language.

## BIOTECHNOLOGY

**Areas of study:** Biotechnology.  
**Course prerequisites:** ACT: Chemistry (Major) NSW: Chemistry.

## BUSINESS ADMINISTRATION

**Areas of study:** Business, international business, leadership, management, marketing.

## COMMERCE

**Areas of study:** Accounting, business information systems, corporate sustainability, economic studies, finance, international business, management, marketing.  
**Assumed knowledge:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced.

## DESIGN

**Areas of study:** Animation and video, ceramics, creative code, data visualisation, design, front-end web design, furniture, glass, jewellery and object, graphic design, painting, photomedia and drawing, product design, sculpture textiles, visual communication.  
**Additional selection criteria:** Interview, portfolio.

## ECONOMICS

**Areas of study:** Econometrics, economic history, economics, finance, statistics.  
**Assumed knowledge:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced.

## ENGINEERING

**Areas of study:** Biomedical systems, electronic and communication systems, humanitarian engineering, mechanical and material systems, mechatronic systems, photonic systems, renewable energy systems.  
**Course prerequisites:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced.  
**Assumed knowledge:** ACT: Physics (Major) NSW: Physics.  
**Recommended studies:** ACT: Specialist Mathematics (Major/Minor) NSW: Mathematics Extension 1.

## ENGINEERING (RESEARCH AND DEVELOPMENT)

**Areas of study:** Biomedical systems, electronic and communication systems, humanitarian engineering, mechanical and material systems, mechatronic systems, photonic systems, renewable energy systems.  
**Course prerequisites:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced.  
**Assumed knowledge:** ACT: Physics (Major) NSW: Physics.  
**Recommended studies:** ACT: Specialist Mathematics (Double Major) NSW: Mathematics Extension 2.

## FINANCE

**Areas of study:** Asian capital markets, capital markets, quantitative finance.  
**Assumed knowledge:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced

## FINANCE, ECONOMICS AND STATISTICS

**Areas of study:** Economics, finance, statistics.  
**Course prerequisites:** ACT: Specialist Mathematics (Major/Minor) (160+) NSW: Mathematics Extension 1 (Band E3).  
**Recommended studies:** ACT: Specialist Mathematics (Double Major) NSW: Mathematics Extension 2.

## GENETICS

**Areas of study:** Genetics, including the traditional areas of evolutionary, Mendelian, and population genetics; more recent developments in medical and molecular genetics and bioinformatics.  
**Course prerequisites:** ACT: Chemistry (Major) NSW: Chemistry.

## HEALTH SCIENCE

**Areas of study:** Biology, health science, Indigenous health, medical science, population health, science communication.  
**Assumed knowledge:** ACT: Chemistry (Major) NSW: Chemistry.

## INFORMATION TECHNOLOGY

**Areas of study:** Artificial intelligence, computer networks, cyber security, data science, information systems, IT in new media, software development.  
**Course prerequisites:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced.

## INTERNATIONAL BUSINESS

**Areas of study:** Asian languages (Chinese, Hindi, Indonesian, Japanese, Korean, Sanskrit, Thai, Vietnamese), European languages (French, German, Italian, Spanish), Middle Eastern languages (Arabic, Persian, Turkish, Urdu), a Latin American language (Spanish), cultural studies and institutions, international business and management.  
**Assumed knowledge:** ACT: Mathematical Methods (Major) NSW: Mathematics Advanced.

## INTERNATIONAL SECURITY STUDIES

**Areas of study:** International security studies plus Arabic, Asia-Pacific security, Burmese language, Chinese language, French language and culture, German language and culture, Hindi language, historical international security, Indonesian language, international relations, Italian language and culture, Japanese language, Korean language, Mongolian language, peace and conflict studies, Persian language, Russian language, Spanish language, Tetum language, Thai language, Vietnamese language, war studies.

*Study of security and foreign policy issues is also possible in the Arts and Asian Studies degrees.*

## LANGUAGES

**Areas of study:** Ancient Greek, Arabic, Burmese, Chinese, French language and culture, German language and culture, Hindi, Indonesian, Italian language and culture, Japanese, Korean, Latin, Mongolian, Persian, Russian, Sanskrit, Spanish, Tetum, Thai, Vietnamese.

## LAW

**Areas of study:** Law, legal studies.



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## MATHEMATICAL SCIENCES

**Areas of study:** Mathematics.

**Course prerequisites:** *ACT:* Specialist Mathematics (Double Major)  
*NSW:* Mathematics Extension 2.

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## MEDICAL SCIENCE

**Areas of study:** Biochemistry, genetics, immunology, medical science, microbiology, molecular biology, physiology.

**Course prerequisites:** *ACT:* Chemistry (Major) *NSW:* Chemistry.

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## MUSIC

**Areas of study:** Creative musicianship (including composition), musicology (including ethnomusicology), performance.

**Additional selection criteria:** Some music courses require an audition.

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## PACIFIC STUDIES

**Areas of study:** Anthropology; archaeology; biodiversity conservation and management; Chinese language, climate science and policy; development studies; environmental studies; forest science and policy; French language and culture; gender, sexuality and culture; geography; German language and culture; heritage and museum studies; Hindi language; history; human ecology; Indonesian language; international relations; Japanese language; Pacific studies; philosophy; social research methods; sociology; soil and land management; Spanish; sustainable development; visual arts practice; water science and policy.

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## SCIENCE

**Areas of study:** Astronomy and astrophysics, biological anthropology, biology, chemistry, computational modelling, computer science, earth and environmental science, environmental modelling, environmental policy, forest science, geography, geology, geophysics, global change science, human ecology, material science, mathematical economics, mathematical finance, mathematical physics, mathematics, mathematics and statistics, neuroscience, physics, psychology, quantitative biology and bioinformatics, science communication, statistics, sustainability science, theoretical physics, water science and policy

**Subject prerequisites and assumed knowledge:** Some science courses have subject prerequisites or assumed knowledge of Mathematics Advanced, Physics or Chemistry. For further information, visit [programsandcourses.anu.edu.au](http://programsandcourses.anu.edu.au).

### Environment and Sustainability

**Areas of study:** Environmental science, resource and environmental management, sustainability science.

### Psychology

**Areas of study:** Abnormal, biological, cognitive, developmental and social psychology.

---

## SOCIAL SCIENCE (ACTUARIAL STUDIES AND ECONOMICS)

**Areas of study:** Accounting, actuarial studies, economics, finance, statistics.

**Course prerequisites:** *ACT:* Specialist Mathematics (Major/Minor) (160+) *NSW:* Mathematics Extension 1 (Band E3).

**Recommended studies:** *ACT:* Specialist Mathematics (Double Major) *NSW:* Mathematics Extension 2.

---

## SOFTWARE ENGINEERING

**Areas of study:** Artificial intelligence, cyber security, industrial experience, networks programming, project management, software development, software quality, system design and analysis.

**Course prerequisites:** *ACT:* Mathematical Methods (Major) *NSW:* Mathematics Advanced.

**Recommended studies:** *ACT:* Specialist Mathematics (Major/Minor) *NSW:* Mathematics Extension 1.

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## STATISTICS

**Areas of study:** Applied probability, business statistics, econometrics, financial statistics, psychological or social research methods, statistical methodology.

**Course prerequisites:** *ACT:* Specialist Mathematics (Major/Minor) (160+) *NSW:* Mathematics Extension 1 (Band E3).

**Recommended studies:** *ACT:* Specialist Mathematics (Double Major) *NSW:* Mathematics Extension 2.

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## VISUAL ARTS

**Areas of study:** Animation and video, ceramics, furniture, glass, hybrid art practice, jewellery and object, painting, photomedia, print media and drawing, sculpture and spatial practice, textiles.

**Additional selection criteria:** Interview, portfolio.

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## FLEXIBLE DOUBLE DEGREES

The Australian National University offers flexible double degrees, which allow you to choose from hundreds of possible combinations across three groups:

- arts, social sciences, business and science (4 years)
- Engineering or Advanced Computing (5 years)
- Law (5 years).

You can combine any two courses (for which you meet the selection rank) from the group.

### Flexible Double Arts, Social Sciences, Business and Science

By selecting this group as a preference, you can choose any two of the following bachelor degrees at the time of accepting your offer:

- Accounting
- Actuarial Studies\*
- Applied Data Analytics
- Archaeological Practice
- Art History and Curatorship
- Arts
- Asian Studies
- Biotechnology\* (cannot be combined with Genetics or Medical Science)
- Business Administration
- Classical Studies
- Commerce
- Criminology
- Design\*
- Development Studies
- Economics
- Environment and Sustainability
- European Studies
- Finance
- Genetics\* (cannot be combined with Biotechnology or Medical Science)
- Information Technology\*
- International Relations
- International Security Studies
- Languages
- Mathematical Sciences\*
- Medical Science\* (cannot be combined with Biotechnology or Genetics)
- Middle Eastern and Central Asian Studies
- Music\*
- Pacific Studies
- Public Policy
- Political Science
- Politics, Philosophy and Economics
- Science
- Science (Psychology)
- Statistics\*
- Visual Arts\*

### Flexible Double Engineering or Advanced Computing

By selecting this group as a preference, you can choose any one of the following bachelor degrees:

- Advanced Computing (Hons)\*
- Advanced Computing (Research and Development) (Hons)\*
- Engineering (Hons)\*
- Engineering (Research and Development) (Hons)\*
- Software Engineering (Hons)\*

plus any one of the following bachelor degrees at the time of accepting your offer:

- Accounting
- Actuarial Studies\*
- Applied Data Analytics
- Archaeological Practice^
- Art History and Curatorship
- Arts
- Asian Studies^
- Biotechnology\* ^
- Business Administration
- Classical Studies^
- Commerce
- Criminology^
- Design
- Development Studies^
- Economics
- Environment and Sustainability
- European Studies^
- Finance
- Genetics\* ^
- Information Technology\* (cannot be combined with Software Engineering or Advanced Computing)
- International Relations^
- International Security Studies
- Languages\*
- Mathematical Sciences\*
- Medical Science
- Middle Eastern and Central Asian Studies
- Music\* ^
- Pacific Studies
- Public Policy^
- Political Science^
- Politics, Philosophy and Economics^
- Science
- Science (Psychology)
- Statistics\*
- Visual Arts^

### Flexible Double Law

By selecting this group as a preference, you choose Law plus any one of the following bachelor degrees at the time of accepting your offer:

- Accounting
- Actuarial Studies\*
- Applied Data Analytics
- Archaeological Practice
- Art History and Curatorship
- Arts
- Asian Studies
- Biotechnology\*
- Business Administration
- Classical Studies
- Commerce
- Criminology

- Design\*
- Development Studies
- Economics
- Environment and Sustainability
- European Studies
- Finance
- Genetics\*
- Information Technology\*
- International Relations
- International Security Studies
- Languages
- Mathematical Sciences\*
- Medical Science\*
- Middle Eastern and Central Asian Studies
- Music\*
- Pacific Studies
- Public Policy
- Political Science
- Politics, Philosophy and Economics
- Science
- Science (Psychology)
- Statistics\*
- Visual Arts\*

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### VERTICAL DEGREES

The Australian National University offers a range of vertical (Bachelor/Master) options. Visit [anu.edu.au/study/study-options/vertical-double-degrees](http://anu.edu.au/study/study-options/vertical-double-degrees) for more information, or [programsandcourses.anu.edu.au](http://programsandcourses.anu.edu.au) to create your own program. Refer to the single bachelor degree entry for course prerequisites, major studies and other requirements.

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### UNDERGRADUATE RESEARCH DEGREES

The Australian National University offers the following undergraduate research degrees:

- B Advanced Computing (Research and Development) (Hons)
- B Engineering (Research and Development) (Hons)
- B Finance, Economics and Statistics (Hons)
- B Asia Pacific Studies (Year in Asia)
- B Science (Advanced) (Hons)
- B Philosophy (Hons) Science\*
- B Philosophy (Hons) Asia and the Pacific

*B Philosophy courses are also available as joint degrees with the National University of Singapore. Contact the Australian National University for more information about these courses. For more information visit [anu.edu.au/study/study-options/undergraduate-research-degrees-0](http://anu.edu.au/study/study-options/undergraduate-research-degrees-0)*

*\* Courses marked with an asterisk include prerequisites and/or additional selection criteria - see main area of study for requirements.*

*^ Engineering (Research and Development) (Honours) cannot be combined with these programs*

## GET IN TOUCH

info.csu  
Charles Sturt University  
Panorama Avenue, Bathurst NSW 2795

**telephone:** 1800 275 278  
**online:** csu.edu.au/contacts/enquiry

## In person

### Albury-Wodonga campus

Marketing Coordinator  
Building 673, Gordon Beavan Building  
Elizabeth Mitchell Drive, Thurgoona NSW  
2640

### Dubbo campus

Course Get in touch  
Tony McGrane Place  
Dubbo NSW 2830

### Port Macquarie campus

Marketing Coordinator  
7 Major Innes Road  
Port Macquarie NSW 2444

### Bathurst campus

Marketing Coordinator  
Building 1396, Panorama Ave  
Bathurst NSW 2795

### Orange campus

Marketing Coordinator  
Building 1001, Leeds Parade  
Orange NSW 2800

### Wagga Wagga campus

Marketing Coordinator  
Building 481, Boorooma Street  
Wagga Wagga NSW 2650

## READ THIS FIRST

– When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## AGRICULTURAL BUSINESS MANAGEMENT

**Areas of study:** Agricultural business management (farm, horticultural, land, viticultural).

## AGRICULTURE

**Areas of study:** Agribusiness, agronomy, livestock production.  
**Assumed knowledge:** Mathematics Standard 2, Investigating Science.  
**Recommended studies:** Biology and/or Chemistry, Mathematics Advanced.

## ANIMAL SCIENCE

### Animal Science

**Areas of study:** Animal production and management, biomedical science, equine science and management, wildlife conservation and management.

**Assumed knowledge:** Chemistry, Mathematics Advanced.

### Equine Science

**Areas of study:** Equine breeding and management, equine business management, equine exercise physiology, equine health and welfare, equine nutrition, equine science.

**Assumed knowledge:** Biology, Chemistry, Mathematics Advanced.

## APPLIED SCIENCE

### Outdoor Recreation and Ecotourism

### Parks, Recreation and Heritage

**Areas of study:** Indigenous and cultural heritage, outdoor recreation, visitor services and open space management, wildlife and conservation.

## ARTS

**Areas of study:** Art history, community development and human services, English, history, Indigenous studies, philosophy, politics, policy studies, psychology, sociology.

**Recommended studies:** Any 2 units of English.

## BUSINESS

### Accounting

### Business Studies

### Human Resource Management

### Management

### Marketing

**Assumed knowledge:** Mathematics Advanced.

## COMMUNICATION AND CREATIVE INDUSTRIES

### Acting and Performance

### Theatre Media

**Areas of study:** *For Acting and Performance:* Acting for stage and screen and emergent media, performance design and production.

*For Theatre Media:* Non-traditional performance, scriptwriting, behind the scenes.

**Recommended studies:** Drama, English Standard or English Advanced, Design and Technology or Visual Arts or VET Entertainment.

**Additional selection criteria:** Audition, course consultation.

### Advertising

### Public Relations

### Radio

**Areas of study:** *For Advertising:* Managing national campaigns for TV, radio and the internet. *For Public Relations:* Shaping public opinion.

*For Radio:* Broadcasting, sales and multimedia.

**Recommended studies:** English Standard or English Advanced.

## Digital Media Production

### Visual Art and Design

### Screen and Media

### Visualisation and Interactivity

### Interdisciplinary Innovation

**Areas of study:** *For Digital Media Production:* Documentaries, voice assistants and websites. *For Visual Art and Design:* Designer in user experience/interface, graphic design, photography. *For Screen and Media:* Film, television, online producing, multiplatform, sound design. *For Visualisation and Interactivity:* 2D and 3D animation, visual effects production, games design, virtual reality.

**Recommended studies:** Design and Technology or Visual Arts or Drama or History.

## Journalism

### Journalism and International Studies

**Areas of study:** *For Journalism:* Reporting for broadcast and the web. *For Journalism and International studies:* Reporting from abroad.

**Recommended studies:** English Advanced.

## EDUCATION

### Early Childhood and Primary

#### Outdoor Education

**Assumed knowledge:** Entry standards for initial teacher education courses are three Band 5 results, including English, in the NSW HSC or equivalent. Charles Sturt University courses are designed for and accredited with alternative entry, as all students undertake core discipline studies in the first two years of study equivalent to three Band 5 results, including English and Mathematics Advanced, before undertaking curriculum and professional studies.

**Recommended studies:** Any 2 units of English, any 2 units of mathematics.

#### K-12

**Areas of study:** Business studies, English, mathematics, modern history, science, geography, legal studies, visual arts, drama, PDHPE, society and culture, economics, design and technology.

**Assumed knowledge:** Entry standards for initial teacher education courses are three Band 5 results, including English, in the NSW HSC or equivalent. Charles Sturt University courses are designed for and accredited with alternative entry as all students undertake core discipline studies in the first two years of study equivalent to three Band 5 results, including English and Mathematics Advanced, before undertaking curriculum and professional studies.

**Recommended studies:** Any 2 units of mathematics.

### Technology and Applied Studies

**Areas of study:** Teaching (secondary school) design and technology and one of the following: agriculture, food technology, industrial technology and information technology (software design, information systems). Food and industrial technology specialists can also choose an additional teaching area in graphics and multimedia or textiles.

**Assumed knowledge:** Entry standards for initial teacher education courses are three Band 5 results, including English, in the NSW HSC or equivalent. Charles Sturt University courses are designed for and accredited with alternative entry, as all students undertake core discipline studies in the first two years of study equivalent to three Band 5 results, including English and mathematics, before undertaking curriculum and professional studies.

**Recommended studies:** Any 2 units of English, any 2 units of mathematics, Design and Technology and/or any of the following: Agriculture, Food Technology, Industrial Technology, Information Processes and Technology, Software Design and Development, Textiles and Design *For agriculture and food technology:* Chemistry.

## ENGINEERING

**Areas of study:** Entrepreneurship, structures, transport and infrastructure, water resources.

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics

**Recommended studies:** Chemistry, Physics.

**Additional selection criteria:** Supplementary application form, interview.

*High-achieving students without an extensive mathematics background can still be accommodated in this program. A minimum level of familiarity with calculus is necessary.*

## ENVIRONMENTAL SCIENCE AND MANAGEMENT

**Recommended studies:** Geography or any 2 units of science.

## EXERCISE SCIENCE

**Areas of study:** Exercise science, sports management, sports media, sports science, teaching.

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

**Recommended studies:** Any 2 units of science.

## HEALTH SCIENCE

### Clinical Practice (Paramedic)

**Assumed knowledge:** Biology, Mathematics Advanced, any 2 units of English.

**Recommended studies:** Investigating Science, first-aid training, medical terminology.

### Clinical Science

**Assumed knowledge:** Chemistry, Mathematics Advanced.

### Dental Science

**Assumed knowledge:** Chemistry, Mathematics Advanced, Physics.

**Recommended studies:** English Standard.

**Additional selection criteria:** Refer to [csu.edu.au/courses/dental-science](http://csu.edu.au/courses/dental-science).

### Health and Rehabilitation Science

**Assumed knowledge:** English Standard.

**Recommended studies:** Biology.

### Occupational Therapy

**Assumed knowledge:** English Standard.

**Recommended studies:** Biology.

### Oral Health (Therapy and Hygiene)

**Assumed knowledge:** Chemistry, English Standard.

**Recommended studies:** Biology.

### Podiatric Medicine

**Assumed knowledge:** English Standard.

**Recommended studies:** Biology, Mathematics Advanced.

### Physiotherapy

**Assumed knowledge:** Biology, English Standard, Mathematics Advanced.

**Recommended studies:** Physics, Biology.

### Speech and Language Pathology

**Assumed knowledge:** English Standard.

**Recommended studies:** Biology, Mathematics Advanced.

## INFORMATION TECHNOLOGY

### Computer Science

**Areas of study:** Computer science, games programming

**Assumed knowledge:** Mathematics Advanced.

### Information Technology

**Areas of study:** Business analysis, network engineering, software design and development, systems administration.



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## LAW

**Areas of study:** English Standard.

**Assumed knowledge:** English Advanced, Legal Studies.

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## MEDICAL RADIATION SCIENCE

**Areas of study:** Medical imaging, nuclear medicine, radiation therapy.

**Assumed knowledge:** Mathematics Advanced, Physics.

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## MEDICAL SCIENCE

**Areas of study:** Biotechnology, clinical physiology, medical science, pathology.

**Assumed knowledge:** Chemistry, Mathematics Advanced.

---

## NURSING

**Assumed knowledge:** English Standard, Mathematics Advanced, Biology, Chemistry.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE), first-aid certificate, mental health first-aid certificate.

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## PHARMACY

**Assumed knowledge:** Chemistry, Mathematics Advanced.

**Recommended studies:** Biology.

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## PSYCHOLOGY

**Areas of study:** Psychology, social science (psychology).

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## SCIENCE

**Areas of study:** Analytical chemistry, conservation biology, mathematics, microbiology and immunology, physics, plant science, spatial science

**Assumed knowledge:** Mathematics Advanced, any 2 units of science

**Recommended studies:** Biology, Chemistry and/or Physics.

### General Studies (Science)

**Recommended studies:** Any 2 units of science.

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## SOCIAL SCIENCE

**Areas of study:** Criminal justice, psychology.

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## SOCIAL WORK

**Areas of study:** Human rights, psychology, social work, sociology.

**Recommended studies:** Society and Culture.

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## THEOLOGY

**Areas of study:** Biblical studies, church history, systematic and practical theology.

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## VETERINARY SCIENCE

### Veterinary Biology/Veterinary Science

**Assumed knowledge:** Biology, Chemistry, Mathematics Advanced.

**Additional selection criteria:** Supplementary application form, interview.

### Veterinary Technology

**Areas of study:** Clinical technology, large animal technology, practice management.

**Assumed knowledge:** Chemistry, Mathematics Advanced.

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## COMBINED DEGREES

If you intend to undertake combined degrees, check the additional selection criteria, assumed knowledge and recommended studies for both degrees. Contact the University for further details.

- Advertising/Marketing
- Nursing/Clinical Practice (Paramedic)
- Public Relations/Business Studies

**CQUNIVERSITY**

cqu.edu.au

CRICOS provider number 00219C

**GET IN TOUCH**

Student Admissions  
CQUniversity  
400 Kent Street, Sydney NSW 2000

**telephone:** 13 CQUni (13 27 86)**email:** via [contactus.cqu.edu.au](mailto:contactus.cqu.edu.au)**READ THIS FIRST**

- When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

**ACCIDENT FORENSICS**

**Areas of study:** Accident analysis, accident phenomenology, forensic engineering, human factors investigation, investigation methods, occupational health and safety.

**Course prerequisites:** English Standard.

**Recommended studies:** Any 2 units of science.

**ACCOUNTING**

**Areas of study:** Accounting, business computing, contract law, human resource management, marketing, organisational behaviour, property, public relations.

**Recommended studies:** English Standard, Mathematics Advanced.

**ALLIED HEALTH**

**Areas of study:** Human body systems, the role of allied health practitioners and healthcare in contemporary society.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Physics.

**ARTS****ARTS (DIP)**

**Areas of study:** Aboriginal and Torres Strait Islander studies, business, creative writing, dance and drama, digital media, geography and environmental studies, journalism, languages, liberal arts, literary and cultural studies, psychology, sociology.

**Course prerequisites:** English Standard.

**AVIATION FLIGHT OPERATIONS****AVIATION FLIGHT OPERATIONS (ASSOC DEG)**

**Areas of study:** Aerodynamics, air service operations, air traffic control, aircraft systems, airspace classifications, flight service and handling emergencies, meteorology, navigation, pilot licences and ratings.

**Recommended studies:** English Standard, Mathematics Advanced, Physics.

**BUILDING DESIGN****BUILDING DESIGN (ASSOC DEG)**

**Areas of study:** Contract administration, design of residential and commercial buildings

**Recommended studies:** English Standard, Mathematics Advanced.

**BUILDING SURVEYING AND CERTIFICATION****BUILDING SURVEYING (ASSOC DEG)**

**Areas of study:** Assessment and inspection of construction for compliance.

**Recommended studies:** English Standard, Mathematics Advanced.

**BUSINESS**

**Areas of study:** Accounting, human resources management, management, marketing, property, public relations, social innovation, supply chain management.

**Recommended studies:** English Standard, Mathematics Advanced.

**BUSINESS STUDIES (DIP)**

**Areas of study:** Accounting, human resources management, management, marketing, property, public relations, social innovation, supply chain management.

**Recommended studies:** English Standard, Mathematics Advanced.

**CONSTRUCTION MANAGEMENT**

**Areas of study:** Building law and regulations, building materials, building systems, built environment, contracts, cost planning and control, geotechnical studies, professional practice, structural forms.

**Recommended studies:** English Standard, Mathematics Advanced.

**DIGITAL MEDIA****DIGITAL MEDIA (ASSOC DEG) OR DIGITAL MEDIA (DIP)**

**Areas of study:** Digital design, graphic design, interactive media, technology and media, video and animation.

**Course prerequisites:** English Standard.

**ECHOCARDIOGRAPHY (CARDIAC PHYSIOLOGY)**

**Areas of study:** Adult echocardiography, cardiac physiology, foetal echocardiography, paediatric cardiovascular, vascular sonography

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Mathematics Advanced, Physics.

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## ENGINEERING

### ENGINEERING (ASSOC DEG)

**Areas of study:** *For Engineering:* Civil, electrical, mechanical, mining, mechatronics. *For Engineering (Assoc Deg):* Civil, electrical, geology, mechanical, mining.

**Course prerequisites:** *For Engineering:* English Standard, Mathematics Advanced.

**Recommended studies:** *For Engineering:* Mathematics Extension 1, Physics. *For Engineering (Assoc Deg):* English Standard, Mathematics Advanced, any 2 units of science.

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### ENGINEERING TECHNOLOGY

**Areas of study:** Engineering: civil, electrical, mechanical.

**Course prerequisites:** English Standard, Mathematics Advanced

**Recommended studies:** Mathematics Extension 1, Physics.

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### ENVIRONMENTAL SCIENCE

**Areas of study:** Environmental geography, land management, water management.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Earth and Environmental Science.

---

### EXERCISE AND SPORTS SCIENCE

**Areas of study:** Anatomy, biomechanics, motor control, physiology, psychology, sports management.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE).

---

### INFORMATION AND COMMUNICATIONS TECHNOLOGY (DIP)

**Areas of study:** Application development, business analysis, network security.

**Course prerequisites:** English Standard.

---

### INFORMATION TECHNOLOGY

#### INFORMATION TECHNOLOGY CO-OP

#### INFORMATION TECHNOLOGY (ASSOC DEG)

**Areas of study:** Application development, business analysis, network security.

**Course prerequisites:** English Standard.

**Recommended studies:** Information Processes and Technology, Software Design and Development.

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### LAWS

**Areas of study:** Administrative law, commercial law, constitutional law, contracts, corporations law, criminal law, family law, jurisprudence, legal drafting, property law, torts, trusts.

**Course prerequisites:** English Standard.

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### MEDICAL LABORATORY SCIENCE (HONOURS)

**Areas of study:** Medical laboratory science.

**Course prerequisites:** English Standard.

**Recommended Study:** Mathematics Advanced, Biology, Chemistry.

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### MEDICAL SCIENCE

**Areas of study:** Biotechnology, clinical investigation, nutrition.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced, Physics.

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### MEDICAL SONOGRAPHY

**Areas of study:** Abdominal sonography, musculoskeletal sonography, paediatric sonography, superficial structures in ultrasound, ultrasound obstetrics and gynaecology, vascular sonography.

**Course prerequisites:** English Standard and one of Chemistry, Biology or Physics.

**Recommended studies:** Chemistry, Biology, Mathematics Advanced, Physics.

---

### NURSING

**Areas of study:** Nursing

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

---

### OCCUPATIONAL HEALTH AND SAFETY

#### OCCUPATIONAL HEALTH AND SAFETY (ASSOC DEG)

**Areas of study:** Environmental studies, human factors, liberal studies, occupational health and safety, public health, safety science.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Physics.

---

### PODIATRY

**Areas of study:** Anatomy, biomechanics, pharmacology, physiology, podiatry, psychology.

**Course prerequisites:** English Standard and one of Chemistry, Biology or Physics.

**Recommended studies:** Mathematics Advanced.

---

### PROFESSIONAL COMMUNICATION

**Areas of study:** Communication, digital media, human resource management, journalism, management, marketing, sociology

**Course prerequisites:** English Standard.

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### PROPERTY

**Areas of study:** Asset management, facility management, property finance, property management, property valuation.

**Recommended studies:** English Standard, Mathematics Advanced.

---

### PSYCHOLOGICAL SCIENCE

**Areas of study:** Data analysis, human development, psychology, research methods.

**Course prerequisites:** English Standard.

**Recommended studies:** Mathematics Advanced, any 2 units of science.

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### PUBLIC HEALTH

#### PUBLIC HEALTH (ASSOC DEG)

**Areas of study:** Environmental health, environmental science, exercise science, health promotion, Indigenous studies, management and human resources, nutrition science, occupational health and safety.

**Recommended studies:** Biology, Chemistry, English Standard, Physics.

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### SCIENCE

**Areas of study:** Applied biology, applied chemistry.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

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### SCIENCE (CHIROPRACTIC)

**Areas of study:** Chemistry fundamentals, foundations of biochemistry, foundations of chiropractic.

**Course prerequisites:** English Standard.

**Recommended studies:** Biology, Chemistry, Physics.

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### SCIENCE (CRIMINOLOGY AND PSYCHOLOGY)

**Areas of study:** Criminal justice, criminology, psychology, human development.

**Course prerequisites:** English Standard.

**Recommended studies:** Mathematics Advanced, any 2 units of science.

### SOCIAL WORK

**Areas of study:** Advocacy, counselling, crisis intervention, social justice.

**Course prerequisites:** English Standard.

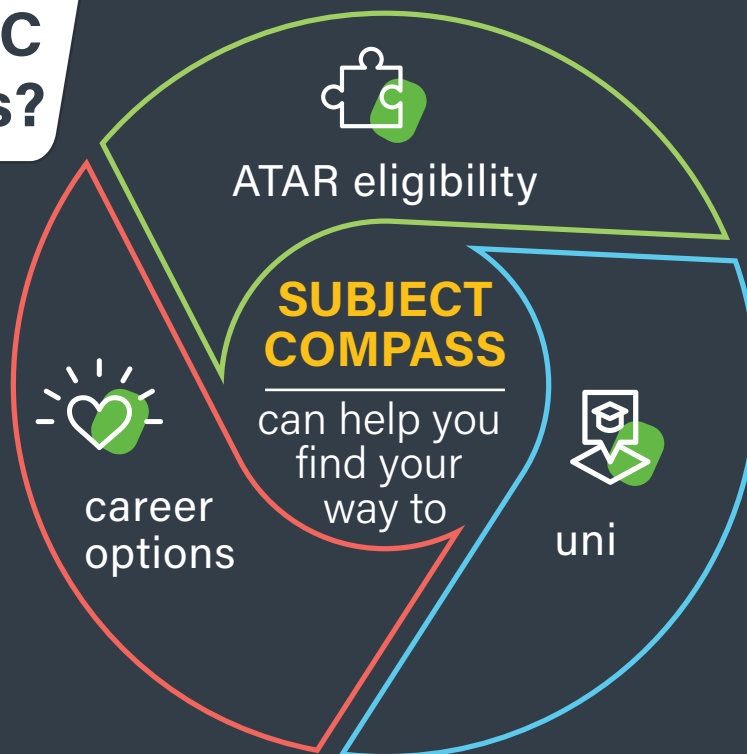
### COMBINED DEGREES

If you intend to undertake combined degrees, check the prerequisites, assumed knowledge and recommended studies for both degrees.

Contact the University for further details.

- Accounting/Business
- Arts/Business
- Business/Professional Communication
- Laws/Accounting
- Laws/Arts
- Laws/Science (Psychology)
- Laws/Property
- Laws/Business
- Laws/Information Technology

## Selecting your HSC subjects?



Get started at [uac.edu.au/subjectcompass](http://uac.edu.au/subjectcompass)



## GET IN TOUCH

Student Administration, Griffith University  
Gold Coast campus, Parklands Drive, Southport QLD 4222

**telephone:** freecall 1800 677 728  
**email:** griffith.edu.au/study/contact-us  
or griffith.edu.au/ask-us

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### APPLIED FINANCIAL ADVICE

**Course prerequisites:** Any 2 units of English (Band 2).

### ARCHITECTURAL DESIGN

**Course prerequisites:** Any 2 units of English (Band 2).  
**Recommended studies:** Mathematics Standard 2 or Mathematics Advanced.

### ARTS

**Areas of study:** Creative writing, criminal justice, drama, history, Indigenous studies, Islam–West relations, journalism, languages (Chinese, Italian, Japanese, Modern Greek, Spanish), literary studies, politics and international studies, public relations, screen studies, security studies, sociology. Modern Greek can be taken online via cross-institutional study with Flinders University, South Australia.  
**Course prerequisites:** Any 2 units of English (Band 2).

### BIOMEDICAL SCIENCE

**Course prerequisites:** Any 2 units of English (Band 2).  
**Assumed knowledge:** Mathematics Advanced plus one of Biology, Chemistry or Physics.

### BUSINESS

**Areas of study:** *Gold Coast:* Asian business, employment relations, entrepreneurship and self-employment, event management, human resource management, international business, logistics and supply chain management, management, marketing, real estate and property development, sport management, tourism management.  
*Online:* Entrepreneurship and self-employment, human resource management, management.  
**Course prerequisites:** Any 2 units of English (Band 2).

### CHILD AND FAMILY STUDIES

**Course prerequisites:** Any 2 units of English (Band 2).

### COMMERCE

**Areas of study:** Accounting, economics, finance, financial planning.  
**Course prerequisites:** Any 2 units of English (Band 2).

### COMMUNICATION AND JOURNALISM

**Course prerequisites:** Any 2 units of English (Band 2).

### COMPUTER SCIENCE

**Areas of study:** Data science and artificial intelligence, software development.  
**Course prerequisites:** Any 2 units of English (Band 2).  
**Assumed knowledge:** Mathematics Advanced.

### CONSTRUCTION MANAGEMENT (HONOURS)

**Course prerequisites:** Any 2 units of English (Band 2) plus Mathematics Standard 2 or Mathematics Advanced (Band 2).

### COUNSELLING

**Course prerequisites:** Any 2 units of English (Band 2).

### CREATIVE AND INTERACTIVE MEDIA

**Areas of study:** Digital arts and design, media applications.  
**Course prerequisites:** Any 2 units of English (Band 2).

### CREATIVE INDUSTRIES

**Areas of study:** Commercial music, digital arts, drama, interactive storytelling, photo media, screen development and curation, sound design.  
**Course prerequisites:** Any 2 units of English (Band 2).

### CRIMINOLOGY AND CRIMINAL JUSTICE

**Course prerequisites:** Any 2 units of English (Band 2).

### DENTAL HEALTH SCIENCE

**Course prerequisites:** Any 2 units of English (Band 2).  
**Assumed knowledge:** One of Biology, Chemistry, Physics or Mathematics Advanced.

### DENTAL HYGIENE

**Course prerequisites:** Any 2 units of English (Band 2).  
**Assumed knowledge:** One of Biology, Chemistry, Physics or Mathematics Advanced.

### DENTAL PROSTHETICS

**Course prerequisites:** Any 2 units of English (Band 2).  
**Assumed knowledge:** One of Biology, Chemistry, Physics or Mathematics Advanced.

### DENTAL TECHNOLOGY

**Course prerequisites:** Any 2 units of English (Band 2).  
**Assumed knowledge:** One of Biology, Chemistry, Physics or Mathematics Advanced.

### DESIGN

**Areas of study:** Graphic and communication design, interior design and environments, product and 3D design, visualisation and immersive design.  
**Course prerequisites:** Any 2 units of English (Band 2).

## EDUCATION

**Areas of study:** Primary education, secondary education.

**Course prerequisites:** Any 2 units of English (Band 2) plus one of Mathematics Standard 2, Mathematics, Mathematics Extension 1 or Mathematics Extension 2 (Band 2), plus non-academic entry requirements.

*For Primary (selected in second year):* Any 2 units of science (Band 2).

*For Secondary (selected in second year):* Successful completion of chosen teaching areas (in particular, for mathematics teaching areas: Mathematics Advanced, Mathematics Extension 1 or Mathematics Extension 2 and for biology, chemistry and physics teaching areas: Biology, Chemistry and Physics respectively).

*This program meets registration requirements for the Queensland College of Teachers. Applicants wishing to obtain registration in NSW will need to ensure that they meet the NSW Education Standards Authority registration requirements. For further information, visit [educationstandards.nsw.edu.au](http://educationstandards.nsw.edu.au).*

## ENGINEERING (HONOURS)

**Areas of study:** Civil, electrical and electronic, mechanical.

**Course prerequisites:** Any 2 units of English (Band 2), Mathematics Advanced.

**Recommended studies:** One of Physics, Chemistry, Mathematics Extension 1 or Mathematics Extension 2.

## ENVIRONMENTAL SCIENCE

**Areas of study:** Ecology and conservation, environmental management, soil and water science, urban environments.

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Standard 2 or Mathematics Advanced.

**Recommended studies:** One of Biology, Chemistry or Physics.

## EXERCISE SCIENCE

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** One of Biology, Chemistry, Physics or Mathematics Advanced.

## GOVERNMENT AND INTERNATIONAL RELATIONS

**Areas of study:** Asian business, Chinese, economics, international business, international relations, Islam-West relations, Italian, Japanese, politics and public policy, Spanish.

**Course prerequisites:** Any 2 units of English (Band 2).

## HEALTH SCIENCE

**Areas of study:** Environmental health, environmental toxicology.

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** One of Biology, Chemistry, Physics or Mathematics Advanced.

## HUMAN SERVICES

**Course prerequisites:** Any 2 units of English (Band 2).

## INDUSTRIAL DESIGN

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Standard 2 or Mathematics Advanced.

## INFORMATION TECHNOLOGY

**Areas of study:** Information systems, networks and security, software development.

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Standard 2 or Mathematics Advanced.

## INTELLIGENT DIGITAL TECHNOLOGIES

**Areas of study:** Internet of Things (IoT) and robotics, programming for visualisation and entertainment

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Advanced.

## INTERNATIONAL BUSINESS

**Areas of study:** Asian business, Chinese, finance, human resource management, international relations, Italian, Japanese, logistics and supply chain management, management, marketing, Modern Greek, Spanish. Modern Greek can be taken online via cross-institutional study with Flinders University, South Australia.

**Course prerequisites:** Any 2 units of English (Band 2).

## INTERNATIONAL TOURISM AND HOTEL MANAGEMENT

**Areas of study:** Hospitality management, tourism management.

**Course prerequisites:** Any 2 units of English (Band 2).

## LANGUAGES AND LINGUISTICS

**Areas of study:** Chinese, Italian, Japanese, linguistics, Modern Greek, Spanish. Students can study languages at other campuses where program structure allows. Modern Greek can be taken via cross-institutional study online through Flinders University.

**Course prerequisites:** Any 2 units of English (Band 2).

## LAWS

**Course prerequisites:** Any 2 units of English (Band 2).

## LAWS (COMBINED)

The following combined Laws courses are available:

- Environmental Science/Laws
- Laws/Arts
- Laws/Business
- Laws/Commerce
- Laws/Criminology and Criminal Justice
- Laws/Government and International Relations
- Laws/International Business
- Laws/Psychological Science.

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** *For Environmental Science/Laws:* Mathematics Standard 2 or Mathematics Advanced.

**Recommended studies:** *For Environmental Science/Laws:* One of Biology, Chemistry or Physics.

## MARINE SCIENCE

**Areas of study:** Coastal management, coastal oceanography, marine chemistry, marine ecology.

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Standard 2 or Mathematics Advanced.

**Recommended studies:** One of Biology, Chemistry or Physics.

## MEDICAL LABORATORY SCIENCE

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Advanced plus one of Biology, Chemistry or Physics.

## MEDICAL SCIENCE

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Advanced plus one of Biology, Chemistry or Physics.

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## NURSING

**Course prerequisites:** Any 2 units of English (Band 2).

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## NUTRITION AND DIETETICS

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Biology, Chemistry, Mathematics Advanced.

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## OCCUPATIONAL THERAPY

**Course prerequisites:** Any 2 units of English (Band 2) plus one of Biology, Chemistry or Physics (Band 2).

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## PARAMEDICINE

**Course prerequisites:** Any 2 units of English (Band 2) plus one of Biology, Chemistry, Physics or Mathematics Advanced (Band 2).

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## PHARMACOLOGY AND TOXICOLOGY

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Advanced or Mathematics Extension 1 or Mathematics Extension 2 plus one of Biology, Chemistry or Physics.

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## PHARMACY

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Advanced or Mathematics Extension 1 or Mathematics Extension 2, plus one of Biology, Chemistry or Physics.

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## PHYSIOTHERAPY

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Advanced plus one of Biology, Chemistry or Physics.

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## PSYCHOLOGICAL SCIENCE

**Course prerequisites:** Any 2 units of English (Band 2).

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## PSYCHOLOGY (HONOURS)

**Course prerequisites:** Any 2 units of English (Band 2).

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## PUBLIC HEALTH

**Course prerequisites:** Any 2 units of English (Band 2).

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## SCIENCE

**Areas of study:** Applied mathematics, biochemistry and molecular biology, chemistry, geography, marine biology, physics, wildlife biology.

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** Mathematics Standard 2 or Mathematics Advanced.

**Recommended studies:** One of Biology, Chemistry or Physics.

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## SOCIAL SCIENCE

**Areas of study:** Economics, environmental sustainability, global security threats, media, communication and social change, politics in Asia, social justice.

**Course prerequisites:** Any 2 units of English (Band 2).

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## SOCIAL WORK

**Course prerequisites:** Any 2 units of English (Band 2).

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## SPORT DEVELOPMENT

**Course prerequisites:** Any 2 units of English (Band 2).

**Assumed knowledge:** One of Biology, Chemistry, Physics, Mathematics Standard 2 or Mathematics Advanced.

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## URBAN AND ENVIRONMENTAL PLANNING

**Course prerequisites:** Any 2 units of English (Band 2).

**Recommended studies:** Mathematics Standard 2 or Mathematics Advanced.

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## COMBINED DEGREES

If you intend to undertake combined degrees, check the prerequisites, assumed knowledge and recommended studies for both degrees.

Contact the University for further details.

- Arts/Business
- Business/Commerce
- Business/Data Science
- Business/Government and International Relations
- Business/International Business
- Commerce/Data Science
- Commerce/International Business
- Commerce/Psychological Science
- Creative and Interactive Media/Business
- Criminology and Criminal Justice/Information Technology
- Dental Technology/Dental Prosthetics
- Design/Business
- Engineering (Honours)/Business
- Engineering (Honours)/Computer Science
- Engineering (Honours)/Environmental Science
- Engineering (Honours)/Industrial Design
- Engineering (Honours)/Information Technology
- Engineering (Honours)/Science
- Environmental Science/Business
- Environmental Science/Data Science
- Exercise Science/Business
- Exercise Science/Psychological Science
- Government and International Relations/Criminology and Criminal Justice
- Human Services/Criminology and Criminal Justice
- Information Technology/Business
- Information Technology/Commerce
- International Business/Government and International Relations
- International Tourism and Hotel Management/Business
- Pharmacology and Toxicology/Business
- Psychological Science/Business
- Psychological Science/Criminology and Criminal Justice
- Psychological Science/M Mental Health Practice
- Psychological Science/M Rehabilitation Counselling
- Science/Arts
- Science/Business
- Science/Data Science
- Science/Information Technology
- Sport Development/Business
- Urban and Environmental Planning/Science

## INTERNATIONAL COLLEGE OF MANAGEMENT, SYDNEY

icms.edu.au

CRICOS provider number 01484M



### GET IN TOUCH

Domestic Student Advisers  
International College of Management,  
Sydney  
151 Darley Road, Manly NSW 2095

**telephone:** 1800 110 490

**email:** start@icms.edu.au

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations of elective subjects within the course.

### BUSINESS MANAGEMENT

#### Entrepreneurship

#### Marketing and New Media

#### Retail Marketing

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services.

**Additional selection criteria:** Interview.

### BUSINESS MANAGEMENT (ACCOUNTING)

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services.

**Additional selection criteria:** Interview.

### BUSINESS MANAGEMENT (FASHION & GLOBAL BRAND MANAGEMENT)

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services.

**Additional selection criteria:** Interview.

### EVENT MANAGEMENT

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Entertainment Industry, Tourism, Travel and Events.

**Additional selection criteria:** Interview.

### HOSPITALITY MANAGEMENT

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services, Food Technology or Hospitality.

**Additional selection criteria:** Interview.

### INTERNATIONAL TOURISM

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services, Tourism, Travel and Events or Geography.

**Additional selection criteria:** Interview.

### PROPERTY (DEVELOPMENT, INVESTMENT AND VALUATION)

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Construction.

**Additional selection criteria:** Interview.

### SPORTS MANAGEMENT

**Recommended studies\*:** Completion of NSW HSC (or equivalent) with a minimum Band 2 in English Standard or English EAL/D and any of the suggested equivalent subjects including Mathematics Standard 2, Business Studies, Economics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Personal Development, Health and Physical Education (PDHPE).

**Additional selection criteria:** Interview.

*\*Recommended studies currently under review.*



## GET IN TOUCH

### All campuses

**telephone:** 1300 135 045 or Sydney campus (02) 9397 7600

**enquire online:** latrobe.edu.au or

Sydney campus: latrobe.edu.au/sydney/contact-us

### In person

#### Albury-Wodonga campus

133 McKoy St, West Wodonga VIC 3690  
latrobe.edu.au/aw

#### Mildura campus

471 Benetook Ave, Mildura VIC 3500  
latrobe.edu.au/mildura

#### Bendigo campus

Edwards Road, Flora Hill VIC 3550  
latrobe.edu.au/bendigo

#### Sydney campus

255 Elizabeth St, Sydney NSW 2000  
latrobe.edu.au/sydney

#### Melbourne campus

Cnr Plenty Road and Kingsbury Drive,  
Bundoora VIC 3086  
latrobe.edu.au/melbourne

#### Shepparton

210 Fryers St, Shepparton Victoria 3630  
latrobe.edu.au/shepparton

### READ THIS FIRST

- For up-to-date information contact the University before making any final decisions regarding your choice of HSC courses.
- Not all campuses offer all courses and areas of study. Contact the University for course locations.

**College of Arts, Social Sciences and Commerce:** For Accounting, Arts, Business, Commerce, Criminology, Creative Arts, Education, Law, Media/Journalism, Visual Arts courses

**College of Science, Health and Engineering:** For Agricultural Science, Biomedical Science, Biological Science, Civil Engineering, Health Sciences, Information Technology, Nursing, Occupational Therapy, Paramedic, Physiotherapy, Psychology, Science, Social Work, Speech Pathology courses.

*Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.*

### ACCOUNTING

**Areas of study:** Accounting, auditing, economics, financial management, taxation.

**Course prerequisites:** Any 2 units of English (min. standard required).

**Course prerequisites:** Any 2 units of English (min. standard required).

### AGRICULTURAL SCIENCES

**Areas of study:** Agribusiness, agricultural marketing, agricultural science, agriculture, agronomy, animal and plant biology, plant and animal production, soil science.

**Course prerequisites:** Any 2 units of English, plus any 2 units of mathematics (min. standards required).

### BIOMEDICAL SCIENCE

**Areas of study:** Biochemistry, biomedical science, biosciences, cell and molecular biology, chemistry, health, medical science, pharmacology.

**Course prerequisites:** Any 2 units of English (min. standard required).

### BIOMEDICAL SCIENCE (MEDICAL)

**Areas of study:** Biochemistry, biomedical science, biosciences, cell and molecular biology, chemistry, health, medical science, pharmacology, pre-medicine.

**Course prerequisites:** Any 2 units of English, plus Chemistry (min. standard required).

### AGRIBUSINESS

**Areas of study:** Accounting, agribusiness, business, economics, management, marketing.

**Course prerequisites:** Any 2 units of English (min. standard required).

### BUSINESS

**Areas of study:** Accounting, economics, finance, management, marketing.

**Course prerequisites:** Any 2 units of English (min. standard required).

### ANIMAL AND VETERINARY BIOSCIENCES

**Areas of study:** Animal and plant biology, animal biotechnology, animal breeding, animal health, animal science, animal welfare, biochemistry, biology, genetics, microbiology, molecular and cell biology, nutrition and feed production, plant and animal production, veterinary science, zoology.

**Course prerequisites:** Any 2 units of English (min. standard required).

### BUSINESS/ARTS

**Areas of study:** Accounting, economics, English, finance, history, management, marketing, sociology.

**Course prerequisites:** Any 2 units of English (min. standard required).

### ARTS

**Areas of study:** English, history, sociology.

**Course prerequisites:** Any 2 units of English (min. standard required).

### COMMERCE

**Areas of study:** Accounting, economics, financial management, management, marketing.

**Course prerequisites:** Any 2 units of English (min. standard required).

### BIOLOGICAL SCIENCES

**Areas of study:** Animal and plant biology, biochemistry, biosciences, biotechnology, botany, ecology, environmental management, genetics, human biology, microbiology, molecular biology, physiology, zoology.

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## CRIMINOLOGY

### CRIMINOLOGY/LAWS

**Areas of study:** Criminology, law.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## CIVIL ENGINEERING (HONOURS)

**Areas of study:** Civil engineering.

**Course prerequisites:** Any 2 units of English plus Mathematics Advanced or Mathematics Extension 1 or Mathematics Extension 2 (min. standards required).

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## CREATIVE ARTS

**Areas of study:** Visual arts.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## EDUCATION

**Areas of study:** Primary education, secondary education.

**Course prerequisites:** Any 2 units of English, any 2 units of mathematics (min. standards required).

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## EDUCATIONAL STUDIES

**Areas of study:** Business, curriculum studies, humanities, psychology.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## ENGINEERING HONOURS (INDUSTRIAL)

**Areas of study:** Engineering (industrial).

**Course prerequisites:** Any 2 units of English plus Mathematics Advanced or Mathematics Extension 1 or Mathematics Extension 2 (min. standards required).

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## HEALTH SCIENCES

**Areas of study:** Health and sustainability, health promotion, human physiology and anatomy, public health, rehabilitation counselling, sports counselling and athlete welfare.

**Course prerequisites:** Any 2 units of English plus one of Biology, Chemistry, Mathematics Advanced, Physics or Personal Development, Health and Physical Education (PDHPE) (min. standards required).

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## HEALTH SCIENCES (MEDICAL CLASSIFICATION)/

### HEALTH INFORMATION MANAGEMENT

**Areas of study:** Digital health.

**Course prerequisites:** Any 2 units of English plus one of Biology, Chemistry, Mathematics Advanced, Physics or Personal Development, Health and Physical Education (PDHPE) (min. standards required).

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## INFORMATION TECHNOLOGY

**Areas of study:** IT systems analysis, programming and networking, project management, estimation, documentation and report evaluation, systems design and development, website and software development

**Course prerequisites:** Any 2 units of English (min. standard required)

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## INTERNATIONAL BUSINESS

**Areas of study:** Accounting, financial management, human resource management, management or marketing.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## LAW

**Areas of study:** Law.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## MEDIA AND COMMUNICATION

**Areas of study:** Journalism, media industries, public relations, sport journalism.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## NURSING (PRE-REGISTRATION)

**Areas of study:** Nursing.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## OCCUPATIONAL THERAPY

**Areas of study:** Anatomy and physiology, health sciences, mental health, occupational therapy.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## PARAMEDIC PRACTICE WITH HONOURS

**Areas of study:** Health promotion, paramedic practice, paramedicine, public health.

**Course prerequisites:** Any 2 units of English plus two of Biology, Chemistry, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE) or Physics (min. standards required).

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## PHYSIOTHERAPY

**Areas of study:** Anatomy, health sciences, physiology physiotherapy.

**Course prerequisites:** Any 2 units of English, plus two of Biology, Chemistry, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE) or Physics (min. standards required).

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## PSYCHOLOGICAL SCIENCE

**Areas of study:** Behavioural science, neuroscience, psychological science, psychology.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## PSYCHOLOGY (HONOURS)

**Areas of study:** Behavioural science, neuroscience, psychological science, psychology.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## SCIENCE

**Areas of study:** Biochemistry, biomedical science, botany, chemistry, environmental geoscience, genetics, mathematics, molecular biology, microbiology, nanotechnology, pharmaceutical chemistry, physics, statistics, zoology.

**Course prerequisites:** Any 2 units of English, plus any 2 units of mathematics (min. standards required).

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## SCIENCE (WILDLIFE AND CONSERVATION BIOLOGY)

**Areas of study:** Animal and plant biology, biology, botany, conservation biology and ecology, ecological studies, ecology (sustainability), environment and sustainability, environmental geoscience, environmental management, environmental studies, genetics, wildlife and conservation biology, wildlife management, zoology.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## SOCIAL WORK

**Areas of study:** Human services, social work.

**Course prerequisites:** Any 2 units of English (min. standard required).

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## SPEECH PATHOLOGY

**Areas of study:** Anatomy, health sciences, physiology, speech pathology.

**Course prerequisites:** Any 2 units of English plus one of Biology, Chemistry, Mathematics Advanced, Personal Development, Health and Physical Education (PDHPE) or Physics (min. standards required).

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GET IN TOUCH

Macleay College  
Level 2, 28 Foveaux Street, Surry Hills NSW 2010

telephone: 1300 939 888  
email: study@macleay.edu.au

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

**ADVERTISING & MEDIA**

**ADVERTISING & MEDIA (DIP)**

**Areas of study:** Campaign thinking, copywriting, creative process, digital design, foundations of marketing, media landscape, positive psychology, research and insight, social media strategy, the business of advertising, video production.

**Recommended studies:** Any 2 units of English, Design and Technology, Visual Arts, Mathematics Advanced, Business Studies.

**Additional selection criteria:** Interview.

**BUSINESS**

**Areas of study:** Business accounting, business finance, business fundamentals, business law, digital business communications, entrepreneurship, foundations of marketing, leadership and change management, positive psychology, project management, research and insight.

**Recommended studies:** Any 2 units of English, Mathematics Advanced.

**Additional selection criteria:** Interview.

- Entrepreneurship
- Event Management
- Marketing
- Public Relations
- Sports Business
- Travel and Tourism

**Recommended studies:** Any 2 units of English, Mathematics Advanced.

**Additional selection criteria:** Interview.

**BUSINESS (ACCOUNTING)**

**ACCOUNTING (DIP)**

**Areas of study:** Accounting, accounting information systems, business communications, business fundamentals, business law, economics for business, foundations of marketing.

**Recommended studies:** Mathematics Advanced, Legal Studies, Business Studies, any 2 units of English.

**Additional selection criteria:** Interview

**BUSINESS MANAGEMENT (DIP)**

**Areas of study:** Business accounting, business fundamentals, business law, digital business communications, entrepreneurship, foundations of marketing, positive psychology, research and insight.

**Recommended studies:** Any 2 units of English, Mathematics Advanced.

**Additional selection criteria:** Interview.

- Entrepreneurship
- Event Management
- Public Relations
- Sports Business
- Travel and Tourism

**Recommended studies:** Any 2 units of English, Mathematics Advanced.

**Additional selection criteria:** Interview.

**DIGITAL AND SOCIAL MEDIA MARKETING (DIP)**

**Areas of study:** Creative process, digital design, digital marketing strategy, foundations of marketing, introduction to digital and social media marketing, social media strategy, written communications.

**Recommended studies:** Visual Arts, Design and Technology, Business Studies, any 2 units of English.

**Additional selection criteria:** Interview.

**DIGITAL MEDIA**

**DIGITAL MEDIA (DIP)**

**Areas of study:** Design thinking, digital design, digital visualisation, ICT, interaction design, story and narrative, positive psychology, research and insight, social media strategy with specialisation options in digital marketing, visual content creation and interactive design, video production.

**Recommended studies:** Any 2 units of English, Design and Technology, Visual Arts, Mathematics Advanced, Business Studies.

**Additional selection criteria:** Interview

**JOURNALISM**

**JOURNALISM (DIP)**

**Areas of study:** Data journalism, feature writing, foundations of news, media history and ethics, media law, news research, professional news practice, radio, reporting government, video and mobile journalism (mojo).

**Recommended studies:** Any 2 units of English.

**Additional selection criteria:** Interview.

- Business
- Fashion
- Food, Lifestyle & Travel
- Investigative Reporting
- Music
- Sports
- Photo

**Recommended studies:** Any 2 units of English.

**Additional selection criteria:** Interview.

**MARKETING (DIP)**

**Areas of study:** Consumer behaviour, digital business communications, entrepreneurship, foundations of marketing, research and insight, positive psychology, sales and negotiation.

**Recommended studies:** Mathematics Advanced, any 2 units of English.

**Additional selection criteria:** Interview.

## MACQUARIE UNIVERSITY

mq.edu.au

CRICOS provider number 00002J



**MACQUARIE**  
University  
SYDNEY · AUSTRALIA

### GET IN TOUCH

Future Students, Macquarie University  
58 Waterloo Road, Macquarie Park NSW 2113

#### In person

Level 2, 18 Wally's Walk  
Macquarie University, North Ryde NSW 2109

**telephone:** (02) 9850 6767

Indigenous students can also phone  
Walanga Muru Office of Indigenous  
Strategy: (02) 9850 4209

**online:** futurestudents@mq.edu.au or  
online through our Live Chat

### READ THIS FIRST

- *The University recognises performance in relevant subjects. See Macquarie Entry Navigator for information ([mq.edu.au/study/macquarie-entry-navigator](http://mq.edu.au/study/macquarie-entry-navigator)).*
- *There are no course prerequisites for entry into degrees at Macquarie University. However, some courses have subject prerequisites, assumed knowledge and recommended studies. Some of these may have minimum band requirements. Students who do not have the stated subjects or minimum bands may take up relevant introductory units provided in the first year or bridging courses in chemistry and mathematics.*

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### ACTUARIAL STUDIES

**Areas of study:** Actuarial modelling, actuarial science, data analysis, economics, finance, financial management, financial reporting, insurance, mathematical methods, probability, risk management, statistical analysis.

**Assumed knowledge:** Mathematics Extension 1 (Band E4).

**Recommended studies:** Mathematics Extension 2. *For the Actuarial Studies Co-op program:* Mathematics Extension 2 (Band E4) is required.

### ANCIENT HISTORY

**Areas of study:** Languages and cultures of Ancient Egypt and the Near East, languages and cultures of Ancient Greece, Rome and late antiquity, languages of the Ancient Mediterranean.

**Recommended studies:** Ancient history.

### APPLIED FINANCE

**Areas of study:** Corporate finance, derivative pricing, financial economics, financial management, financial modelling, investments, portfolio management, probability, quantitative analysis, risk management, statistics.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Mathematics Extension 1.

### ARCHAEOLOGY

**Areas of study:** Cultural anthropology, cultures of Ancient Egypt and the Near East; cultures of Ancient Greece, Rome and late antiquity; landscape processes for archaeologists; studies in human biology; studies in palaeobiology.

**Recommended studies:** Ancient history. *For human biology and palaeobiology:* refer to 'Science'.

### ARTS

**Areas of study:** Ancient Egypt and the Near East, Ancient Greece, Rome and late antiquity, ancient languages, anthropology, archaeology, Chinese studies, Chinese-English translation and interpreting, creative industries and management, creative writing, criminology, Croatian studies, cultural studies, dance, theatre and performance, education, English, environment, society and law, French and Francophone studies, games and interactivity, gender studies, geography, German studies, global health, Hellenic studies, human geography, Indigenous studies, interactive design, international communications, international relations, Italian studies, Japanese studies, journalism and non-fiction writing, linguistics, media studies, media, culture and communications, media, technology and the law, medieval and early modern studies, modern Greek studies, modern history, music studies, philosophy, Polish studies, political economy and social policy, politics, psychological science\*, public relations and social media, radio and podcasting, refugee studies, religion and society, Russian studies, screen practice and production, social justice, sociology, Spanish and Latin American studies, urban studies.

\* *The study of psychological science does not lead to registration as a psychologist or to professional postgraduate training in psychology.*

**Recommended studies:** *For psychological science:* Mathematics Advanced.

### BIODIVERSITY AND CONSERVATION

**Areas of study:** Biodiversity and conservation animal sciences, biodiversity and conservation biology, cell and molecular biology, environmental biology, evolution and ecology, genetics, microbiology, physiology, plant sciences.

**Recommended studies:** Mathematics Advanced, and one of Biology or Chemistry or Investigating Science.

### BUSINESS ADMINISTRATION

**Areas of study:** Business and corporations law, business forecasting, economics, human resource management, international business, leaderships in management, management communication, marketing, negotiation, organisational behaviour, strategic management.

**Assumed knowledge:** Mathematics Standard 2.



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## BUSINESS ANALYTICS

**Areas of study:** Business forecasting, business statistics, data analytics, database management, data science, information systems for management, risk management, social networks, statistics.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Mathematics Extension 1.

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## CHIROPRACTIC SCIENCE

**Areas of study:** Advanced anatomy and physiology, ageing, clinical chiropractic studies, community health, health promotion, physiology/exercise physiology, public health and research, rehabilitation, research methodology, sports medicine.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced, Physics.

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## CLINICAL SCIENCE

**Areas of study:** Anatomy, biochemistry, biology (human), embryology, genetics and genomics, histology, immunology, medical microbiology, neuroscience, pathology, pharmacology, physics, physiology, professional skills and knowledge for working in healthcare and medical research settings.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Chemistry, English Advanced.

Find out more about bridging courses on the Faculty of Science and Engineering section of the Macquarie University website.

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## COMMERCE

**Areas of study:** Accounting, business analytics, business information systems, business statistics, cyber security governance, economics, entrepreneurship, finance, human resource management, international business, management, marketing and consumer insights, marketing management.

**Assumed knowledge:** *For business analytics, business statistics, economics, finance:* Mathematics Advanced. *For accounting, business information systems, marketing management, marketing and consumer insights:* Mathematics Standard 2.

**Recommended studies:** *For accounting, business information systems, marketing and consumer insights:* Mathematics Advanced. *For business analytics and finance:* Mathematics Extension 1.

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## COGNITIVE AND BRAIN SCIENCES

**Areas of study:** Computer programming, hearing and the brain, memory, neuroscience, perception and attention, philosophy, psychology, reading and language, statistics and data analysis.

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## CYBER SECURITY

**Area of study:** Applied cryptography, cybercrime, data privacy and information security, databases, digital forensics, ethical hacking, machine learning, networking, programming, secure application development, security management in practice and web technologies.

**Recommended studies:** Mathematics Extension 1 or Mathematics Extension 2 plus Information Process and Technology and/or Software Design and Development.

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## ECONOMICS

**Areas of study:** Applied economics, behavioural economics, development economics, ecological economics, econometrics, economic policy, financial economics, health economics, human resource and labour economics, industrial organisation, macroeconomics, microeconomics.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Mathematics Extension 1.

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## EDUCATION

### Early Childhood Education

**Recommended studies:** Any 2 units of mathematics.

### Primary Education

**Recommended studies:** Any 2 units of mathematics.

### Secondary Education

**Areas of study:** Business studies, economics, English, geography, history, languages, mathematics, science.

**Recommended studies:** Successful completion of HSC study in the chosen teaching areas. *For Mathematics teaching:* Mathematics Advanced, Mathematics Extension 1 or Mathematics Extension 2.

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## ENGINEERING (HONOURS)

**Areas of study:** Civil engineering, electrical engineering, electronics engineering, mechanical engineering, mechatronic engineering, software engineering.

**Assumed knowledge:** Mathematics Advanced (Band 4). If you don't have the assumed knowledge, you're advised to undertake a bridging course.

**Recommended studies:** Physics plus Mathematics Extension 1 or Mathematics Extension 2.

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## ENVIRONMENT

**Areas of study:** Applied environmental science, atmospheric environments, biology, climate science, environmental biology, environmental earth science, environmental geoscience, environmental management, spatial information science.

**Recommended studies:** Earth and Environmental Science, Biology, Geography, Chemistry, Mathematics Advanced.

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## GAMES DESIGN AND DEVELOPMENT

**Areas of study:** Computer games technology, computer graphics, computer networks, computer programming, critical games studies, game design, game development, digital media production, modelling and animation, screenwriting, software engineering, sound, image and interactive media, videogames, web design, web technology.

**Recommended studies:** Mathematics Extension 1 or Mathematics Extension 2 plus Information Process and Technology and/or Software Design and Development.

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## HUMAN SCIENCES

**Areas of study:** Cognitive and brain sciences, community services, counselling theory and principles, education, human movement, professional, organisational and workplace communication, public health, policy and promotion.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE), Mathematics Advanced.

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## INFORMATION TECHNOLOGY

**Areas of study:** Cybersecurity, data analytics, data science, enterprise applications, information systems and business analysis, network security, software technology, web design and development.

**Recommended studies:** Mathematics Extension 1 or Mathematics Extension 2 plus Information Process and Technology and/or Software Design and Development.

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## INTERNATIONAL STUDIES

**Areas of study:** Intercultural studies and, languages (Chinese, Croatian, French and Francophone studies, German, Italian, Japanese, modern Greek, Polish, Russian, Spanish and Latin American studies).

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## LAW

**Areas of study:** Administrative law, animal law, civil procedure, company law, competition and consumer law, contracts, criminal law and procedure, environmental law, equity (including trusts), ethics and professional responsibility, evidence, family law, federal and state constitutional law, human rights, Indigenous peoples and the law, international dispute settlement, media law, property, torts.

## LINGUISTICS AND LANGUAGE SCIENCES

**Areas of study:** Applied linguistics, child language acquisition, theoretical and descriptive linguistics.

## MARINE SCIENCE

**Areas of study:** Animal behaviour, biodiversity and conservation, climate change, ecology, geographic information systems, geoscience, palaeontology.

**Recommended studies:** Biology, Earth and Environmental Science, Mathematics Advanced plus Chemistry or Physics.

## MARKETING AND MEDIA

**Areas of study:** Advanced issues in marketing and management, consumer behaviour, integrated marketing communications, marketing research, marketing strategy, media and communications, media and marketing technologies, multimodal storytelling, PR and social media, services marketing.

**Assumed knowledge:** Mathematics Standard 2.

**Recommended studies:** Mathematics Advanced.

## MATHEMATICAL SCIENCES

**Areas of study:** Applied mathematics, pure mathematics, statistics.

**Assumed knowledge:** Mathematics Extension 1 or Mathematics Extension 2. If you don't have the assumed knowledge, you will be required to undertake additional units which may extend the time taken to complete this degree.

**Recommended studies:** Mathematics Extension 2.

## MEDIA AND COMMUNICATIONS

**Areas of study:** Interactive design, international communications, journalism and non-fiction writing, media studies, moving image and sound design, PR and social media, radio and podcasting, screen practice and production.

## MEDICAL SCIENCES

**Areas of study:** Anatomy and physiology, analytical bioscience, genomics and medical informatics, health and science communication, infectious disease and biosecurity, medicinal chemistry, neuroscience.

**Recommended studies:** Mathematics Advanced, Chemistry.

## MUSIC

**Areas of study:** DJ performance and remixing, interactive sound and image, music business, music in a global context, music production, music theatre, musical experimentation and innovation, popular music, song writing, sound cultures, vocal studies.

## PLANNING

**Areas of study:** Demographics and social science, environmental science and management, geographical information systems, international development, planning law and governance, planning policy, social impact assessment, spatial science, urban design.

## PROFESSIONAL ACCOUNTING

**Areas of study:** Accounting and governance, auditing and assurance services, blockchain for business, business and corporations law, business statistics, corporate accounting and business advisory, economic principles, financial accounting and reporting, financial management, information systems and business processes, management accounting, organisational planning and control, performance measurement practices, taxation, taxation law and practice.

**Assumed knowledge:** Mathematics Standard 2.

**Recommended studies:** *For the Accounting Co-op program:* Mathematics Advanced.

## PSYCHOLOGY

**Areas of study:** Biopsychology and learning, cognition and perception, counselling and social relationships, developmental psychology, emotion, health psychology, motivation, neuroscience, personality, principles of psychological assessment, psychopathology, research design and statistics, social and developmental psychology.

**Recommended studies:** Mathematics Advanced.

## SECURITY STUDIES

**Areas of study:** Australian, regional and global strategy and security, counterterrorism, cybercrime and security, emerging security challenges, ethical practice, intelligence and counter intelligence, modern warfare, security policy analysis.

## SCIENCE

**Areas of study:** Applied statistics, astronomy and astrophysics, biology, chemical and biomolecular sciences, chemistry, climate science, cognitive neuroscience, computing, ecology and evolutionary biology, environmental earth science, environmental management and spatial science, geology, geography studies, geophysics, human biology, human geography studies, mathematics, palaeobiology, palaeontology and the earth system, physics, psychological studies.

**Subject prerequisites:** *For astronomy and astrophysics, mathematics, statistics and physics specialisations:* Mathematics Advanced (Band 4). If you haven't met the required minimum achievement, you can undertake an alternative introductory unit of study in that area.

**Recommended studies:** Mathematics Advanced, at least 2 units of science. *For astronomy and astrophysics, mathematics, statistics and physics specialisations:* Physics. *For mathematics, statistics specialisation:* Mathematics Extension 1 (Band E2) or Mathematics Extension 2.

## SCIENCE ADVANCED

**Areas of study:** Advanced astronomy and astrophysics, advanced biology, advanced biomolecular sciences, advanced chemistry, advanced ecology and evolutionary biology, advanced environmental sciences, advanced geology, advanced geophysics, advanced human biology, advanced mathematics, advanced palaeobiology, advanced palaeontology and the earth system, advanced physics.

**Subject prerequisites:** *For advanced astronomy and astrophysics, advanced physics specialisations:* Mathematics Advanced (Band 4). *For advanced mathematics specialisations:* Mathematics Extension 1 (Band E3) or Mathematics Extension 2.

**Recommended studies:** *For advanced astronomy and astrophysics, physics specialisations:* Mathematics Advanced, Physics. *For advanced biology, advanced biomolecular sciences, advanced chemistry, advanced ecology and evolutionary biology, and advanced human biology specialisations:* Biology or Chemistry or Investigating Science plus Mathematics Advanced. *For advanced environmental sciences, advanced geophysics, advanced geology, advanced palaeontology and the earth system:* Earth and Environmental Science or Investigating Science plus Mathematics Advanced. *For advanced mathematics:* Mathematics Extension 1 (Band E3) or Mathematics Extension 2.

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## SOCIAL SCIENCE

**Areas of study:** Anthropology, criminology, environment, society and law, race, gender and diversity, geography, global health, human geography, indigenous studies, international relations, political economy and social policy, politics, refugee studies, social justice, sociology, urban studies.

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## SPEECH AND HEARING SCIENCES\*

**Areas of study:** Commonalities and differences between the world's languages, hearing and its disorders, how children and adults learn a second or other language, how language develops in children, how language is represented in the brain, how spoken language is produced, perceived and understood, the relationship between language and society, speech and language disorders.

\* This degree does not lead to registration as a speech pathologist or audiologist.

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## DOUBLE DEGREES

Double bachelor degrees involve studying two complementary or different degrees. Students can choose to undertake a single bachelor degree, double bachelor degrees or combined bachelor + master degrees\*. Macquarie offers more than 50 single degrees. For more information, visit [mq.edu.au/study/find-a-course/double-degrees](http://mq.edu.au/study/find-a-course/double-degrees).

\*Some double degree exclusions apply

### MIT SYDNEY

[mit.edu.au](http://mit.edu.au)  
CRICOS provider numbers 01545C, 03245K (NSW)



### GET IN TOUCH

MIT Sydney  
154–158 Sussex Street, Sydney NSW 2000

**telephone:** (02) 8267 1400  
**email:** [info.sydney@mit.edu.au](mailto:info.sydney@mit.edu.au),  
[enrolments.syd@mit.edu.au](mailto:enrolments.syd@mit.edu.au)

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Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

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## BUSINESS

**Areas of study:** Accounting, management, marketing and digital marketing.

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## INFORMATION TECHNOLOGY

### Networking

**Areas of study:** Computer networks, including specialisation in cloud networks and software engineering, and major in cyber security.

## NATIONAL ART SCHOOL

nas.edu.au

CRICOS provider number 03197B



NATIONAL  
ART  
SCHOOL

### GET IN TOUCH

National Art School  
Forbes Street, Darlinghurst NSW 2010

**telephone:** (02) 9339 8651

**email:** student.services@nas.edu.au

### READ THIS FIRST

- In addition to completion of the HSC (or equivalent), admission criteria for B Fine Art include interview and portfolio evaluation. For further information regarding portfolio requirements, visit nas.edu.au.
- The National Art School offers portfolio development with its short course program and also offers the NESA-endorsed HSC Intensive Studio Practice course for Year 11 Visual Arts students throughout NSW.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## FINE ARTS

**Areas of study:** Art history and theory, ceramics, drawing, painting, photography, printmaking, sculpture.

**Assumed knowledge:** Visual Arts.

**Additional selection criteria:** Portfolio, interview.

## SAE CREATIVE MEDIA INSTITUTE

sae.edu.au

CRICOS provider number 00312F



### GET IN TOUCH

#### Sydney campus

SAE Creative Media Institute  
39 Regent Street, Chippendale NSW 2008

**telephone:** freecall 1800 723 338  
or (02) 8241 5200

**email:** sydney@sae.edu

#### Byron Bay campus

SAE Creative Media Institute  
373–391 Ewingsdale Road, Byron Bay NSW 2481

**telephone:** freecall 1800 723 338  
or (02) 6639 6000

**email:** byronbay@sae.edu

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ANIMATION

**Additional selection criteria:** Interview.

### 3D Modelling

#### 3D Modelling (Assoc Deg)

**Areas of study:** Advanced 3D modelling, development and implementation of 3D production pipelines, digital environments and technical art pipelines, lighting and rendering, modelling terminology and methods, texturing and shading.

### Character Animation

#### Character Animation (Assoc Deg)

**Areas of study:** Advanced 2D animation, development of user-friendly animation rigs, principles of character animation: posing, motion studies, body mechanics and facial animation.

### Visual Effects

#### Visual Effects (Assoc Deg)

**Areas of study:** Computer modelling, intermediate and advanced compositing, match moving, particle systems, dynamic simulations and colour grading lighting, rendering, texturing.

### 3D Animation (Dip)

**Areas of study:** 3D digital model creation, character rigging, design animation and digital visual effects, interpreting and responding to a design brief, production of 3D assets, staging and drawing, storyboards, visual design.

## AUDIO

**Additional selection criteria:** Interview.

### Post-production

#### Post-production (Assoc Deg)

**Areas of study:** Advanced sound for picture techniques, audio post-production team dynamics, creation and manipulation of the sonic environment of multimedia.

### Studio Production

#### Studio Production (Assoc Deg)

**Areas of study:** Advanced studio production techniques, mastery of tracks from recording through to production, sound aesthetics, studio production team dynamics.



### Audio Production (Dip)

**Areas of study:** Assembly of small-scale digital recording system, digital technology, microphones, mixing and application of signal processors, music theory, musical forms and structure, operation of Digital Audio Workstation (DAW), sound recording.

### Music Production (Dip)

**Areas of study:** Blending sounds, conducting a location recording, Digital Audio Workstation (DAW) transcription and operation, music genres and styles, music theory, technical language, understanding and recognition of key features of music, working to a brief, writing a production brief.

## DESIGN

**Additional selection criteria:** Interview.

### Graphic Design

#### Graphic Design (Assoc Deg) Graphic Design (Dip)

**Areas of study:** Critical and creative thinking, design and layout, design for print media, fundamentals of drawing, pre-press, principles of design, typography.

### Web Design

#### Web Design (Assoc Deg)

**Areas of study:** Critical and creative thinking, design and layout, design for content management systems, dynamic development, interaction design, interface design, principles of design.

## FILM

**Additional selection criteria:** Interview.

### Post-production

#### Post-production (Assoc Deg)

**Areas of study:** Colour grading, compositing, editing, film fundamentals, operation of film equipment, storytelling, understanding the roles and responsibilities of film production crews.

## Production

### Production (Assoc Deg)

**Areas of study:** Directing, film fundamentals, operation of film equipment, producing, storytelling, understanding the roles and responsibilities of film production crews.

### Film (Dip)

**Areas of study:** Film fundamentals, operation of film equipment, storytelling, understanding the roles and responsibilities of film production crews.

## GAMES DEVELOPMENT

**Additional selection criteria:** Interview.

### Games Design

#### Games Design (Assoc Deg)

**Areas of study:** Advanced game design, foundations of 3D graphics, game audio, games as media, level development, psychology of play.

### Games Programming

#### Games Programming (Assoc Deg)

**Areas of study:** Applied mathematics, game engine architecture, games technology, programming, tools development.

### Augmented and Virtual Reality (Dip)

**Areas of study:** Augmented reality (AR) technology use, creative problem solving, critical reflection, haptic technologies, human-computer interaction (HCI), mixed reality (MR) technology use, rapid prototyping, scripting, virtual reality (VR) technology use.

### Game Development (Dip)

**Areas of study:** Differences between digital and analogue games, game construction, game functionality, instructional design, methods for construction of functional games, principles of spatial layout, programmatic solutions, visual communication techniques, writing Technical Design Documents (TDD).

## SIBT

sibt.nsw.edu.au

CRICOS provider number 01576G



## GET IN TOUCH

SIBT

Level 4, 255 Elizabeth Street, Sydney NSW 2000

**telephone:** (02) 9964 6555

**email:** study@sibt.nsw.edu.au

## READ THIS FIRST

- SIBT will only consider academic subjects when determining a student's average performance.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ARTS (DIP)

**Areas of study:** Arts, criminology and criminal justice, international studies, interpreting and translation.

## BUSINESS ADMINISTRATION (DIP)

**Areas of study:** Hospitality management, international business, management, marketing.

## COMMERCE (DIP)

**Areas of study:** Accounting, economics, finance, management, marketing, statistics.

## ENGINEERING (DIP)

**Areas of study:** Electrical engineering, engineering computing, engineering materials, mathematics, mechanical engineering, physics.  
**Assumed knowledge:** Mathematics Extension 1. If not, students can enrol in equivalent units to acquire this knowledge.

## INFORMATION TECHNOLOGY (DIP)

**Areas of study:** Business information systems, data management, digital media, programming, software design, systems design.

## MEDIA AND COMMUNICATION (DIP)

**Areas of study:** Cross cultural communication, digital media, international communication, national and global media.

## SOUTHERN CROSS UNIVERSITY

scu.edu.au

CRICOS provider number 01241G



### GET IN TOUCH

#### All campuses

Future Student Team, Southern Cross University  
PO Box 157, Lismore NSW 2480

**telephone:** freecall 1800 626 481

**email:** futurestudent@scu.edu.au

#### In person

##### Lismore campus

Military Road, East Lismore NSW 2480

##### Coffs Harbour campus

Hogbin Drive, Coffs Harbour NSW 2450

##### Gold Coast campus

Southern Cross Drive, Billinga QLD 4225

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### ACCOUNTING

**Areas of study:** Business accounting, finance, law.

**Recommended studies:** Business Studies, Economics, Information Processes and Technology, Legal Studies.

### ART AND DESIGN

**Areas of study:** 3D studies, curating, digital art and design, drawing, painting, printmaking, sculpture.

**Recommended studies:** Visual Arts.

**Additional selection criteria:** Interview, portfolio.

### ARTS

**Areas of study:** Australian studies, communication studies, creative arts, cultural studies, education, English, environmental studies, history, human geography, Indigenous studies, international studies, law and justice, mathematics, media studies, music, physical geography, politics, psychology, society and culture, tourism, visual arts, writing.

**Assumed knowledge:** English Advanced.

### BIOMEDICAL SCIENCE

**Areas of study:** Anatomy, biochemistry, human physiology, immunology, microbiology, neuroscience.

**Recommended studies:** Mathematics Advanced plus at least one of Biology, Chemistry or Physics.

### BUSINESS

**Areas of study:** Accounting, aviation management, finance, human resource management, international business, management, marketing.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** One or more of Business Studies, Economics, Information Processes and Technology or Legal Studies.

### BUSINESS (DIP)

**Recommended studies:** Business Studies or Economics.

### CIVIL ENGINEERING

**Areas of study:** Environmental engineering.

**Recommended studies:** Mathematics Advanced plus Chemistry and/or Physics.

### CLINICAL SCIENCES (OSTEOPATHIC STUDIES)

**Areas of study:** Human anatomy and physiology, structure and function of the muscular and nervous systems.

**Recommended studies:** Biology plus Chemistry or Mathematics Advanced.

### COASTAL SYSTEMS ENGINEERING

**Areas of study:** Coastal engineering and management, engineering geochemistry and hydrology, floodplain engineering and management, hydraulic engineering, project management, water and wastewater engineering.

**Recommended studies:** Mathematics Advanced plus Chemistry and/or Physics.

### CONTEMPORARY MUSIC

**Areas of study:** Music education, new media arts, performance (audition), performance (non-audition), screen, songwriting/composition (audition), songwriting/composition (non-audition), sound production

**Assumed knowledge:** Competency on a musical instrument, particularly for the performance stream, basic music theory.

**Recommended studies:** Music 1 or Music 2 or HSC Music Extension.

**Additional selection criteria:** For the performance and songwriting/composition audition streams: Audition/interview.

### CREATIVE WRITING (ASSOC DEG)

**Areas of study:** Experimental writing, journalism, life writing, poetry, writing for stage and screen, writing for young adults.

**Assumed knowledge:** English Advanced.

**Recommended studies:** English Extension 1 or English Extension 2.

### DIGITAL BUSINESS

**Areas of study:** Entrepreneurship and innovation, e-commerce, management, marketing, web technology and cyber security.

**Recommended studies:** Mathematics Advanced and/or one of Business Studies, Economics, Information Processes and Technology, Legal Studies.

### DIGITAL MEDIA AND COMMUNICATIONS

**Areas of study:** Creative writing, digital design, digital marketing, journalism, music and technology, screen media, visual culture.

**Assumed knowledge:** English Advanced.

**Recommended studies:** English Extension 1 or English Extension 2.

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## EDUCATION/TEACHING

### Early Childhood

### Primary (K-6)

### Secondary

### Technology Education

There are no prerequisites or assumed knowledge.

Only available as a combined degree option – refer to Education/Teaching (Combined degrees) below.

**Additional selection criteria:** Non-academic requirements.

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## ENVIRONMENTAL SCIENCE

**Areas of study:** Coastal management, environmental resource management, fisheries and aquaculture management, waste management and resource recovery.

**Recommended studies:** Biology, Chemistry, Earth and Environmental Science, Geography, Mathematics Advanced.

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## FOREST SCIENCE AND MANAGEMENT

**Areas of study:** Biology, ecology, environmental studies, forestry studies, plant physiology, soil processes, wood science.

**Recommended studies:** Biology and/or Chemistry, Earth and Environmental Science, Mathematics Advanced.

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## HEALTH (DIP)

**Recommended studies:** Biology and/or Chemistry.

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## HOTEL MANAGEMENT

**Areas of study:** Accommodation operations, food and beverage, management, professional practice.

**Recommended studies:** Business Studies and/or Hospitality, any 2 units of English.

**Additional selection criteria:** Interview.

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## INDIGENOUS KNOWLEDGE

**Areas of study:** Aboriginal health care, community and land management, Indigenous knowledge and research.

**Recommended studies:** Any 2 units of English.

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## INFORMATION TECHNOLOGY

**Areas of study:** Information systems, software development, user experience.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Information Processes and Technology, any 2 units of English.

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## INFORMATION TECHNOLOGY (ASSOC DEG)

**Areas of study:** Applications development, database systems, digital media, programming, systems analysis and design, web development.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Information Processes and Technology, any 2 units of English.

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## LAW (ASSOC DEG)

**Areas of study:** Conveyancing.

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## LAWS

### LAWS (DOUBLE DEGREES)

- Arts/Laws
- Business/Laws
- Creative writing
- Legal and Justice Studies/Laws
- Psychological Science/Laws
- Social Science/Laws
- Sport and Exercise Science/Laws

**Requirements:** *For Laws:* None *For the other area of study:* Refer to the relevant entry.

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## LEGAL AND JUSTICE STUDIES

**Areas of study:** Australian politics, conveyancing, legal systems and processes.

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## MARINE SCIENCE AND MANAGEMENT

**Areas of study:** Biology, chemistry, coastal marine ecosystems, ecology, environmental issues.

**Recommended studies:** Biology and/or Chemistry, Mathematics Advanced.

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## MECHANICAL ENGINEERING

**Areas of study:** Applied mechanics, dynamics, fluid mechanics, manufacturing, materials, thermodynamics.

**Recommended studies:** Chemistry and/or Physics, Mathematics Advanced.

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## MIDWIFERY

**Areas of study:** Anatomy and physiology, midwifery theory and practice, primary health care, psychosocial sciences, women's health.

**Assumed knowledge:** Any 2 units of English, Mathematics Advanced plus Chemistry or Biology.

**Recommended studies:** English Extension 1 or English Extension 2.

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## NURSING

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

**Recommended studies:** One or more of Chemistry, Biology or Physics.

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## OCCUPATIONAL THERAPY

**Areas of study:** Biomedical science, professional areas, social sciences.

**Recommended studies:** Biology.

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## PEDORTHICS

**Areas of study:** Footwear design and production, lower limb function, orthoses and bracing manufacture.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

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## PODIATRY

**Areas of study:** Allied health studies, anatomy and physiology, gait biomechanics, lower limb medicine.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

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## PSYCHOLOGICAL SCIENCE

**Areas of study:** Analytical problem-solving, applied skills, interpreting research findings, scientific principles, statistical methods, testing and assessment.

**Recommended studies:** Mathematics Advanced, Biology.

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## SCIENCE

**Areas of study:** Biology, engineering, environmental chemistry, human biology, information technology, mathematics, psychology.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

## SCIENCE (DIP)

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

## SOCIAL SCIENCE

**Areas of study:** Politics and government, sociology.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Society and Culture.

## SOCIAL WELFARE

**Areas of study:** Children and young people, health and disability, Indigenous studies.

**Assumed knowledge:** Any 2 units of English.

## SPEECH PATHOLOGY

**Areas of study:** Audiology, cultural competency, multi-modal communication neurology, phonetics and linguistics, principles of evidence-based practice.

**Assumed knowledge:** English Advanced.

**Recommended studies:** Biology.

## SPORT AND EXERCISE SCIENCE

**Areas of study:** Education, exercise science, nutrition.

**Recommended studies:** Mathematics Advanced, any 2 units of English, one or more of Biology, Chemistry, Physics, Personal Development, Health and Physical Education (PDHPE).

## TOURISM AND HOSPITALITY MANAGEMENT

**Areas of study:** Event management, hospitality management, tourism management.

**Recommended studies:** Any 2 units of English plus Business Studies and/or Hospitality.

## DOUBLE DEGREES

Refer to the assumed knowledge and recommended studies for both components of the double degrees.

- Arts/Laws
- Business/Arts
- Business/Laws
- Exercise Science and Psychological Science\*
- Environmental Science/Marine Science and Management\*
- Laws and Creative Writing\*
- Legal and Justice Studies/Laws
- Podiatry/Pedorthics
- Psychological Science/Laws
- Social Science/Laws
- Sport and Exercise Science/Laws.

\*Combined degree

## EDUCATION/TEACHING (COMBINED DEGREES)

- Arts/Education (Primary)
- Arts/Education (Primary/Early Childhood)
- Arts/Education (Primary/Secondary)
- Arts/Education (Secondary)
- Technology/Education (Secondary)





## TOP EDUCATION INSTITUTE

top.edu.au

CRICOS provider number 02491D



### GET IN TOUCH

Top Education Institute  
Suite 1, Biomedical Building  
1 Central Avenue, Australian Technology Park  
Everleigh NSW 2015

**telephone:** (02) 9209 4888  
**email:** admission@top.edu.au

### READ THIS FIRST

- Top Education Institute offers courses through the Sydney City School of Business and the Sydney City School of Law on-campus at the Australian Technology Park, Sydney.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## SYDNEY CITY SCHOOL OF BUSINESS

### APPLIED FINANCE AND ACCOUNTING

#### APPLIED FINANCE AND ACCOUNTING (DIP)

**Areas of study:** Accounting, economics, finance, financial planning, financial systems and instruments, law, management, security analysis and pricing.

**Recommended studies:** Mathematics Advanced.

### BUSINESS (DIP)

**Areas of study:** Accounting, economics, finance, management, statistics.

**Recommended studies:** Business Studies.

### INTERNATIONAL BUSINESS

**Areas of study:** Accounting, business, economics, finance, law, management, statistics.

**Recommended studies:** Business Studies, Mathematics Advanced.

## SYDNEY CITY SCHOOL OF LAW

### LAWS

**Areas of study:** Law, including commercial, criminal, cyber, environmental, international, property, technology.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** English Advanced.

Top Education Institute and PwC Australia have entered into an alliance agreement.

PwC and PwC Australia refers to the Australian member of the PwC global network. Each member firm is a separate legal entity. Please see [www.pwc.com/structure](http://www.pwc.com/structure) for further details. Full disclaimer can be found here: [www.top.edu.au/pwc](http://www.top.edu.au/pwc).

## TORRENS UNIVERSITY AUSTRALIA

torrens.edu.au  
CRICOS provider number 03389E



### GET IN TOUCH

#### Torrens University Australia

L4 680 George Street, Sydney 2000

**in person:** 1–5 Hickson Road, The Rocks NSW 2000

**telephone:** 1300 575 803

**email:** via torrens.edu.au/contact-us

**website:** torrens.edu.au

#### Billy Blue College of Design

Billy Blue at Torrens University

Level 1, 46–52 Mountain Street, Ultimo NSW 2007

**telephone:** 1300 851 245

**email:** via billyblue.edu.au/contact-us

**website:** billyblue.edu.au

#### Blue Mountains International Hotel Management School

Blue Mountains International Hotel Management School at Torrens University

PO Box A256, Sydney South NSW 1235

**in person:** 1 Chambers Road, Leura NSW 2780

**telephone:** (02) 9307 4600

**email:** via bluemountains.edu.au/enquiries

**website:** bluemountains.edu.au

#### William Blue College of Hospitality Management

William Blue at Torrens University

Level 3, 1–5 Hickson Road, The Rocks NSW 2000

**telephone:** 1300 851 237

**email:** via williamblue.edu.au/contact-us

**website:** williamblue.edu.au

### READ THIS FIRST

- When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.
- Torrens University Australia (TUA) offers a range of career programs in **Business, Hospitality, Design, Health, Nursing and Sports Management** for study on-campus, online or a hybrid of both. Torrens University's programs are run through a combination of well-known, established schools and the University's own business and health degrees.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## BUSINESS

Entrepreneurship  
Event Management  
Marketing  
Sports Management

**Areas of study:** Accounting, business and law, business fundamentals, customer experience management, digital marketing trends, economics, ethics and sustainability, events policy and strategy, identifying consumer behaviour, international business strategy, organisational creativity and innovation, public relations management, sports tourism, strategic marketing planning, understanding people and organisations.

## COMMERCE

**Areas of study:** Accounting, business communications, business law, economic, finance, leadership and professional practice, management, quantitative analysis.

## BUSINESS

**Areas of study:** Business fundamentals, customer experience management, ethics and sustainability, identifying consumer behaviour, understanding people and organisations.

## ENTREPRENEURSHIP

**Areas of study:** Business fundamentals, customer experience management, small business and start-ups, identifying consumer behaviour, understanding people and organisations.

## EVENT MANAGEMENT (DIP)

**Areas of study:** Business fundamentals, customer experience management, event planning and management, events policy and strategy, organisational creativity and innovation, understanding people and organisations.

## MARKETING (DIP)

**Areas of study:** Business fundamentals, customer experience management, digital marketing trends and development, identifying consumer behaviour, organisational creativity and innovation, strategic marketing planning, understanding people and organisations.

## HEALTH COURSES

### APPLIED PUBLIC HEALTH

**Areas of study:** Health monitoring and screening at a population level; health policy; health promotion campaigns and advocacy; planning, implementing and evaluating health programs.  
**Recommended studies:** Any 2 units of science.

### APPLIED SOCIAL SCIENCE (COUNSELLING)

**Areas of study:** Applied counselling, case management and program development, community development, community services, counselling, counselling for grief and loss, health and wellbeing, ethics and professional practice, interpersonal communication, human development, human rights and social advocacy, mediation and conflict management, protection of children, social policy, relationship counselling, social research methods.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE)

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### BEAUTY AND SPA PRACTICE (DIP)

**Areas of study:** Aesthetic electrotherapy, aesthetic practice with technology, beauty and spa practice, foundations of aesthetics, manual aesthetic techniques.

**Additional selection criteria:** Applicants must be 18 years or older at the course commencement date. Applicants must also be able to demonstrate the ability to undertake study at the required level.

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### COUNSELLING & COMMUNICATION SKILLS (DIP)

**Areas of study:** Digital fluency, health and wellbeing, human development across the lifespan, interpersonal communication, introduction to ageing, introduction to disability, introduction to human services.

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### HEALTH SCIENCE

#### Aesthetics

**Areas of study:** Aesthetic electrotherapy, aesthetic practice with technology, aesthetics, cosmetic chemistry, digital fluency, foundations of aesthetics, human anatomy and physiology, human biology, manual aesthetic techniques.

**Recommended studies:** Any 2 units of science.

#### Naturopathy

#### Nutritional Medicine

#### Western Herbal Medicine

**Areas of study:** Biochemistry, biological foundations, botany, clinical assessment, complementary medicine foundations, evidence-based practice, herbal therapeutics, human structure & function, human systems & pathophysiology, nutrition, nutritional therapeutics pre-clinical studies, pharmacology, .

**Recommended studies:** Any 2 units of science.

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### HEALTH SCIENCE (DIP)

**Areas of study:** Biological foundations, clinical assessment, human structure & function, human systems & pathophysiology, pre-clinical studies.

**Recommended studies:** Any 2 units of science.

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### NUTRITION

**Areas of study:** Analyse and develop health programs, nutritional needs of the human body, understanding nutrition needs on a global scale.

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### SPORT DEVELOPMENT (DIP)

**Areas of study:** Athlete health and wellbeing; coaching practices; developing sports participation; drugs in sport; essentials of sports marketing; event management; high performance training and injury management principles; risk, law and work health and safety; staff recruitment.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE).

---

### HEALTH & WELLBEING (DIP)

**Areas of study:** Active lifestyle promotion, body systems and disease, corporate health, disease prevention, health promotion, human nutrition, leisure, social and emotional wellbeing, sport and fulfilling lives for older people, understanding health.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE).

## NURSING COURSES

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### NURSING (COMING SOON\*)

\* Although Torrens is a self-accrediting university, the Bachelor of Nursing degree will only be available for enrolment and hence course delivery once accreditation from the Australian Nursing & Midwifery Accreditation Council is attained.

**Areas of study:** Administer and monitor medications, analyse health-related information, develop effective communication skills, implement basic nursing care, legal and ethical parameters in nursing, work as an enrolled nurse (RN).

**Recommended studies:** Biology.

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## BILLY BLUE COLLEGE OF DESIGN

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### BRANDED FASHION DESIGN

**Areas of study:** Colour and material theory, design development and costing, fashion buying and merchandise planning, fashion illustration and technical drawing, fashion production, print design and theory.

**Recommended studies:** Textiles and Design, Visual Arts.

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### BRANDED FASHION DESIGN (DIP)

**Areas of study:** Design context, fashion illustration, introduction to branded fashion technical drawing, introduction to shape and form, fashion studio practice, fashion vs clothing.

**Recommended studies:** Design and Technology, Visual Arts.

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### COMMUNICATION DESIGN

**Areas of study:** Design and typographic fundamentals, moving image and 3D design and production, packaging and branding.

**Recommended studies:** Visual Arts, Design and Technology.

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### CREATIVE TECHNOLOGIES (GAME ART)

**Areas of study:** Animation, asset creation, game principles, game studies.

**Recommended studies:** Design and Technology, Visual Arts.

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### DESIGN (DIP)

**Areas of study:** 3D design and production, branded fashion, communication design, design fundamentals, digital media, interior design, moving image.

**Recommended studies:** Visual Arts.

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### DIGITAL MEDIA DESIGN

#### Interaction Design

#### Film and Video Design

#### 3D Design and Animation

**Areas of study:** 3D design, character design, cinematography, compositing, content production, editing, lighting, interaction, motion graphics, user behaviour.

**Recommended studies:** Information Processes and Technology, Visual Arts, Design and Technology.

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### DIGITAL MEDIA DESIGN (DIP)

**Areas of study:** 3D design and animation, concept development, design fundamentals, interactive design, motion design.

**Recommended studies:** Visual Arts plus Information Processes and Technology or Design and Technology.

**GRAPHIC DESIGN (DIP)**

**Areas of study:** Design history and principles, ideas generation, brand identity, typography, design research, user experience, how to use industry standard graphic design software.

**Recommended studies:** Design and Technology, Visual Arts.

**INTERIOR DESIGN**

Commercial

Residential

**Recommended studies:** Visual Arts, Design and Technology.

**INTERIOR DESIGN AND DECORATION (DIP)**

**Recommended studies:** Visual Arts, Design and Technology.

**PHOTO IMAGING (DIP)**

**Areas of study:** Digital photography, history, photo imagery.

**Recommended studies:** Visual Arts.

**SOFTWARE ENGINEERING (ARTIFICIAL INTELLIGENCE)**

**Areas of study:** Animation, asset creation, game principles, game studies.

**Recommended studies:** Design and Technology, Information Processes and Technology, Visual Arts.

**SOFTWARE ENGINEERING (CLOUD COMPUTING)**

**Areas of study:** Animation, asset creation, game principles, game studies.

**Recommended studies:** Design and Technology, Information Processes and Technology, Visual Arts.

**SOFTWARE ENGINEERING (GAME PROGRAMMING)**

**Areas of study:** 3D graphic programming, computer graphics, mathematics, software engineering.

**Course prerequisites:** Mathematics Standard 2.

**Recommended studies:** Visual Arts, Information Processes and Technology, Software Design and Development, Mathematics Advanced, Physics.

**BLUE MOUNTAINS INTERNATIONAL HOTEL MANAGEMENT SCHOOL****BUSINESS**

International Hotel and Resort Management

International Event Management

**Areas of study:** Business, conferences, event management, hospitality management, hotel operations, leadership, management, resort management.

**Recommended studies:** Hospitality (Kitchen Operations and Cookery (Examination) or Hospitality (Food and Beverage) (Examination) plus any 2 units of a language and Business Studies.

**Additional selection criteria:** Students are required to attend an interview either in person or via Skype.

**WILLIAM BLUE COLLEGE OF HOSPITALITY MANAGEMENT****BUSINESS**

**BUSINESS (ASSOC DEG)**

**BUSINESS (DIP)**

Hospitality Management

Tourism Management

**Recommended studies:** Hospitality (Kitchen Operations and Cookery (Examination) or Hospitality (Food and Beverage) (Examination) plus any 2 units of a language.

**CULINARY MANAGEMENT**

**CULINARY MANAGEMENT (ASSOC DEG includes Cert. 4)**

Commercial Cookery

**Areas of study:** Food health and safety, kitchen operations, menu planning, professional cookery, restaurant management.

**Recommended studies:** Hospitality (Kitchen Operations and Cookery (Examination) or Hospitality (Food and Beverage) (Examination) plus Food Technology.



## GET IN TOUCH

Student Connect, Locked Bag 1  
University of Canberra, ACT 2601

**telephone:** 1800 UNI CAN (1800 864 226)  
**email:** study@canberra.edu.au

## In person

Student Central, Level B, Building 1  
Kirinari Street, University of Canberra, Bruce ACT 2617

## READ THIS FIRST

- There are no course prerequisites into degree courses at UC.
- UC's subject adjustment factors recognise performance in relevant HSC subjects by enabling adjustment factors to students applying to UC after Year 12. For more information about UC's subject adjustment factors, visit [canberra.edu.au/future-students/apply-now/alternative-entry/adjustment-factors](http://canberra.edu.au/future-students/apply-now/alternative-entry/adjustment-factors).

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ARTS

### Creative Writing

**Areas of study:** Creative writing, literature studies, narrative non-fiction, poetry, screenwriting, writing for various media, writing for young people.

### Culture and Heritage

**Areas of study:** Conservation, cultural heritage practice, heritage studies, Indigenous studies, museum studies.

### Digital Media

**Areas of study:** 3D, animation and motion capture, augmented reality, digital photography, game art, sound design, virtual reality, visual effects.

### Film Production

**Areas of study:** Cinematography, directing, documentary, editing, film making, lighting, videography.

### Global Studies

**Areas of study:** Activism, environmental policy, global ethics, international development, international studies, philosophy, world culture.

## BIOMEDICAL SCIENCE

**Areas of study:** Genetics and genomics, human biology, integrated studies of disease, microbiology, pathobiology, physiology.

**Recommended studies:** ACT: Biology T (Major) and/or Chemistry T (Major), Mathematical Methods T (Major) NSW: Biology and/or Chemistry, Mathematics Advanced.

## BUILDING AND CONSTRUCTION MANAGEMENT

**Areas of study:** Building and construction management, building materials, building processes, built design, communication, management, negotiation, supervision techniques.

## BUSINESS

### Entrepreneurship and Innovation

**Areas of study:** Business start-ups, entrepreneurial management, marketing, human resources management, Indigenous entrepreneurship, innovation.

### Human Resources Management

**Areas of study:** Human resource management, organisational behaviour, workplace law.

### International Business

**Areas of study:** Economic development, global e-business, international business, international marketing.

### Management

**Areas of study:** Entrepreneurial management, human resources, public sector management, sustainable business futures, workplace law.

### Marketing

**Areas of study:** Consumer behaviour, digital marketing, international marketing, marketing management, relationship marketing, services management.

### Services Management

**Areas of study:** Business models and value creation, consumer behaviour, service management, service systems and wellbeing.

## BUSINESS (DIP)

**Areas of study:** Accounting, business, finance, law, management, marketing.

## BUSINESS INFORMATICS

### BUSINESS INFORMATICS (DIP)

**Areas of study:** Business intelligence systems, cloud computing, corporate strategy and IT governance, cyber security, data science, enterprise systems, information security, Internet of Things, social informatics.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

## COMMERCE

### Accounting

**Areas of study:** Auditing, finance, financial and management accounting, law, systems theory.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Accounting and Finance

**Areas of study:** Auditing, finance, financial and management accounting, law, systems theory.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Business Economics

**Areas of study:** Professional economics.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Finance and Banking

**Areas of study:** Business finance, financial institutions and markets, investments, risk management.

**Recommended studies:** ACT: Mathematics T/Mathematic Applications, English (major) NSW: Mathematics Advanced, English Advanced.

### Financial Planning

**Areas of study:** Business law, investments, personal financing, retirement planning.

**Recommended studies:** ACT: Mathematics T/Mathematic Applications, English (major) NSW: Mathematics Advanced, English Advanced.

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## COMMUNICATION AND MEDIA

### Corporate and Public Communication

**Areas of study:** Campaign development, communication studies, corporate and public communication, graphic design basics, media and public affairs, media studies, multimedia production, public relations, social and digital analytics, stakeholder management.

### Journalism

**Areas of study:** Broadcast and print media, communication studies, content creation, digital communication, digital curation, journalism, media studies, reporting, visual and audio studies.

### Marketing Communication

**Areas of study:** Communication studies, cross-platform digital communication, marketing communication, media engagement, media studies, strategic and brand development.

### Sports Media

**Areas of study:** Broadcast and print media, communication studies, content creation, digital communication, media studies, public relations, sports media, visual and audio studies.

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## COMMUNICATION (DIP)

**Areas of study:** Communication studies, corporate and public communication, journalism, marketing communication, sports media.

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## DESIGN

### Visual Communication Design

**Areas of study:** Communication studies, design, environmental graphics, information organisation, layout design, logotype design, new technologies, packaging and digital design, print based design, publication design, typography, visual communication design, web based design.

**Recommended studies:** ACT: Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: Mathematics Advanced, English Advanced.

**Additional selection criteria:** Students may be considered for entry based on portfolio submission and/or interview.

### Industrial Design

**Areas of study:** Communication skills, design, design manufacturing, digital manipulation, digital techniques, fabrication, industrial design, materials and production processes, product development.

**Recommended studies:** ACT: Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: Mathematics Advanced, English Advanced.

**Additional selection criteria:** Students may be considered for entry based on portfolio submission and/or interview.

### Interactive Design

**Areas of study:** Building human-centric interaction systems, design, digital environments, digital product design, digital products, digital systems, media platforms, technology, web development.

**Recommended studies:** ACT: Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: Mathematics Advanced, English Advanced.

**Additional selection criteria:** Students may be considered for entry based on portfolio submission and/or interview.

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## DESIGN (DIP)

**Areas of study:** Architecture, building and construction management, industrial design, interaction design, interior architecture, landscape architecture, visual communication design.

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## EDUCATION

### Primary

**Areas of study:** Primary education, key learning areas, primary curriculum and pedagogy, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Primary (Creative Arts)

**Areas of study:** Creative arts education (including dance, drama, media arts, music, visual arts), key learning areas, literacy and numeracy, primary curriculum and pedagogy, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Primary (Health and Physical Education)

**Areas of study:** Health and physical education, key learning areas, literacy and numeracy, primary curriculum and pedagogy, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Primary (STEM)

**Areas of study:** Disciplines involved in science, technology and mathematics (STeM) education, key learning areas, literacy and numeracy, primary curriculum and pedagogy, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Early Childhood and Primary

**Areas of study:** Early childhood education (0-8 years), early learning education (philosophies, practices and applications), key learning areas, literacy and numeracy, primary curriculum and pedagogy, teacher professional practice.

### Secondary (Arts)

**Areas of study:** Key learning areas, secondary curriculum and pedagogy, secondary education, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Secondary (Health and Physical Education)

**Areas of study:** Key learning areas, secondary curriculum and pedagogy, secondary education, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Secondary (Mathematics and Computing Technology)

**Areas of study:** Key learning areas, secondary curriculum and pedagogy, secondary education, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

### Secondary (Science)

**Areas of study:** Key learning areas, secondary curriculum and pedagogy, secondary education, teacher professional practice.

**Recommended studies:** ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English Advanced, Mathematics Advanced.

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## ENGINEERING

### Network and Software Engineering

**Areas of study:** Computer and network security, computer engineering, enterprise and cloud computing, high speed networks, mobile technologies, network engineering, signals and systems, software engineering, software technology, systems analysis and modelling, system software, web design and programming, wireless networks.

**Recommended studies:** ACT: Mathematical Methods T (Major)/ Specialist Mathematics T (Major) NSW: Mathematics Advanced.

### Robotics and Artificial Intelligence

**Areas of study:** Computer vision and image analysis, designing human-computer interaction, foundations of robotics, Internet of Things, network architecture, pattern recognition and machine learning, soft computing, software technology, wireless networks.

**Recommended studies:** ACT: Mathematical Methods T (Major) NSW: Mathematics Advanced.

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## ENVIRONMENTAL SCIENCE

**Areas of study:** Applied ecology, earth science, environmental chemistry, environmental genetics, integrated environmental management, sustainable landscapes, water science.

**Recommended studies:** ACT: Mathematical Methods T (Major), Biology T (Major) and/or Chemistry T (Major) NSW: Mathematics Advanced, Biology and/or Chemistry.

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## EVENT AND TOURISM MANAGEMENT

**Areas of study:** Event and tourism management.

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## EXERCISE PHYSIOLOGY AND REHABILITATION

**Areas of study:** Sport coaching, sports science.

**Recommended studies:** ACT: Biology T (Major), Chemistry T (Major), Mathematical Methods T (Major), Physics T (Major) NSW: Biology, Chemistry, Mathematics Advanced, Physics.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history and first aid certificates, including CPR.*

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## FORENSIC STUDIES

**Areas of study:** Environmental and forensic genetics, forensic biology, forensic chemistry, forensic science, forensic toxicology and drug analysis, microbiology, pharmacology and toxicology.

**Recommended studies:** ACT: Biology T (Major) and/or Chemistry T (Major), Mathematical Methods T (Major) NSW: Biology and/or Chemistry, Mathematics Advanced.

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## HEALTH SCIENCE

**Areas of study:** Health science, human movement, nutrition studies.

**Recommended studies:** ACT: Biology T (Major), Chemistry T (Major), Mathematical Methods T (Major), Physics T (Major) NSW: Biology, Chemistry, Mathematics Advanced, Physics.

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## HUMAN NUTRITION

**Areas of study:** Human nutrition.

**Recommended studies:** ACT: Chemistry T (Major), Mathematical Methods T (Major) NSW: Chemistry, Mathematics Advanced.

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## INFORMATION TECHNOLOGY

**Areas of study:** Cloud computing and Internet of Things, cyber security, data science, information technology, robotics and artificial intelligence, software systems architecture, web design and programming.

**Recommended studies:** ACT: Mathematical Methods T (Major)/ Specialist Mathematics T (Major), English T (Major) NSW: Mathematics Advanced, English Advanced.

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## INFORMATION TECHNOLOGY (DIP)

**Areas of study:** Information systems, software engineering.

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## JUSTICE STUDIES

**Areas of study:** Advocacy and communication, justice studies, law reform.

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## LAW

### LAW (COMBINED)

The University of Canberra offers a range of combined courses with Law. For more information, visit [canberra.edu.au](http://canberra.edu.au).

**Requirements:** For Law: None.

For the other areas of study: Refer to the relevant entry requirements.

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## MEDICAL RADIATION SCIENCE

**Areas of study:** Medical imaging, medical radiation science.

**Recommended studies:** ACT: Biology T (Major), Physics T (Major), Mathematical Methods T (Major) NSW: Biology, Physics, Mathematics Advanced.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history and first aid certificates, including CPR.*

---

## MEDICAL SCIENCE

**Areas of study:** Advanced physiology, analytical chemistry, anatomy and physiology, biological chemistry, genetics and genomics, human biology, immunology, integrated studies of disease, microbiology, pathobiology.

**Recommended studies:** ACT: Chemistry T (Major) and Mathematical Methods T (Major) NSW: Chemistry and Mathematics Advanced.

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## MIDWIFERY

**Areas of study:** Midwifery practice theory, midwifery professional theory, midwifery theory.

**Recommended studies:** ACT: Biology T (Major), Chemistry T (Major), English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: Biology, Chemistry, English Advanced, Mathematics Advanced.

**Additional selection criteria:** Supplementary application form, CV.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history. First aid certificates, including CPR are recommended.*

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## NETWORK AND SOFTWARE ENGINEERING (DIP)

**Areas of study:** Network and software engineering.

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## NURSING

**Areas of study:** Nursing inquiry, professional nursing practice.

**Recommended studies:** ACT: Biology T (Major), Chemistry T (Major), English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: Biology, Chemistry, English Advanced, Mathematics Advanced.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history and first aid certificates, including CPR.*

## OCCUPATIONAL THERAPY

**Areas of study:** Occupational therapy.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history and first aid certificates, including CPR.*

## PHARMACY

**Areas of study:** Pharmacotherapeutics, pharmacy practice.

**Recommended studies:** *ACT:* Mathematical Methods T (Major) plus Biology T (Major) or Human Movement T (Major), plus Chemistry T (Major) or Physics T (Major) *NSW:* Mathematics Advanced plus Biology or Personal Development, Health and Physical Education (PDHPE) plus Chemistry or Physics.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history. First aid certificates, including CPR are recommended.*

## PHYSIOTHERAPY

**Areas of study:** Physiotherapy interventions, physiotherapy practice.

**Recommended studies:** *ACT:* Mathematical Methods T (Major) plus Biology T (Major) or Human Movement T (Major), plus Chemistry T (Major) or Physics T (Major) *NSW:* Mathematics Advanced plus Biology or Personal Development, Health and Physical Education (PDHPE), plus Chemistry or Physics.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history and first aid certificates, including CPR.*

## POLITICS AND INTERNATIONAL RELATIONS

**Areas of study:** Politics and international relations.

*All students must satisfy a security check for the national security internships.*

## PSYCHOLOGY

**Areas of study:** Psychological science.

## PUBLIC ADMINISTRATION

**Areas of study:** Public sector management.

## PUBLIC HEALTH

**Areas of study:** Biology, community development, community studies, counselling studies, human biology: chemical and molecular principles, human biology: from cells to organism, human nutrition, information systems, international studies, management, management and governance and policy, marketing, pre-physiotherapy, psychology: an introduction, public health, sports science, sustainability.

## SCIENCE

**Areas of study:** Analytic chemistry, applied ecology, applied statistics, biology, earth science, genetics, genetics counselling, human biology, human nutrition, information systems, integrated environmental management, psychological science, software engineering, sustainability, water science.

**Recommended studies:** *ACT:* Biology T, English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) plus Chemistry T or Physics T (Major) *NSW:* Biology, English Advanced, Mathematics Advanced plus Chemistry or Physics.

## SCIENCE (DIP)

**Areas of study:** Biology, chemistry, physical science, science.

## SOFTWARE ENGINEERING

**Areas of study:** Cloud computing and Internet of Things, cyber security, data science, mobile technologies, robotics and artificial intelligence, software engineering, system software, technology and engineering management.

**Recommended studies:** *ACT:* Mathematical Methods T (Major)/Specialist Mathematics T (Major) *NSW:* Mathematics Advanced, English Advanced.

## SOCIAL AND ECONOMIC POLICY

### Economic Policy

**Areas of study:** Behavioural science, economics.

### Sociology

**Areas of study:** Behaviour science, political and social theory, sociology.

## SPORT AND EXERCISE SCIENCE

**Areas of study:** Sport coaching, sports science.

**Recommended studies:** *ACT:* Biology T (Major), Chemistry T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major), Physics T (Major) *NSW:* Biology, Chemistry, Mathematics Advanced, Physics.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present first aid certificates, including CPR.*

## THE BUILT ENVIRONMENT

### Architecture

**Areas of study:** Architecture design, architecture history and theory, built design, digital production, technology and sustainability, urban built environment.

### Interior Architecture

**Areas of study:** Architecture design, digital design, human interaction with interior spaces, interior architecture, interior environments, urban built environment.

### Landscape Architecture

**Areas of study:** Architecture design, landscape architecture, public and private outdoor design, urban and regional spaces, urban built environment.

## VISION SCIENCE

**Areas of study:** Vision science.

*All students are required to undergo a National Police Check and obtain a Working with Vulnerable People registration card prior to undertaking clinical experience. All students are also required to present an immunisation history and first aid certificates, including CPR.*

## COMBINED DEGREES

If you intend to undertake combined degrees check the assumed knowledge and recommended studies for both degrees. Contact the University of Canberra for further details.



## GET IN TOUCH

Student Success, University of New England  
Armidale NSW 2351

**telephone:** freecall 1800 818 865

**email:** via [une.edu.au/askune](mailto:une.edu.au/askune)

## In person

Student Success, Dixon Library Learning Commons  
University of New England, Armidale NSW 2351

## READ THIS FIRST

- *Competence in the English language is a requirement for all University of New England courses.*
- *English Standard is not regarded as adequate preparation for the study of English Literature at the University of New England.*
- *When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.*
- *Foundation-level units in Chemistry, Mathematics and Physics are available for students who do not have a background in these areas.*

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### ACCOUNTING

**Areas of study:** Accounting, advanced accounting, agribusiness, business law, economics, finance, information systems, managing organisations and people, RG146 financial planning, tax practitioner.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

### AGRIBUSINESS

**Areas of study:** Accounting, agribusiness, economics, finance, marketing and management, rural science, technology and data analytics.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

### AGRICULTURAL AND RESOURCE ECONOMICS

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

### AGRICULTURAL PRODUCTION AND MANAGEMENT

**Areas of study:** Crop production, feedlot management, livestock production, poultry production, production horticulture.

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

**Recommended studies:** Agriculture and/or Primary Industries, Biology.

### AGRICULTURE

**Areas of study:** Agricultural technology, agriculture, agronomy, animal production, animal science, farm management, plant production, precision agriculture, primary industries, wool science.

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics *For technology:* Mathematics Advanced.

**Recommended studies:** Agriculture, Biology and/or Chemistry.

### AGRICULTURE/BUSINESS

**Areas of study:** Accounting, agribusiness, agriculture, animal and plant production, international business, marketing.

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

**Recommended studies:** Agriculture, Biology and/or Chemistry.

### ANIMAL SCIENCE

**Areas of study:** Canine and equine science, livestock production, wildlife management.

**Assumed knowledge:** Any 2 units of English, Chemistry, Mathematics Advanced.

**Recommended studies:** Biology.

### ARTS

**Areas of study:** Ancient history, ancient near east, archaeology, Australian history, Chinese (Mandarin), classical languages (Greek/Latin), criminology, English, French, German, history, human geography, Indigenous studies, Indonesian, international history, Islamic studies, Italian, Japanese, linguistics, music, peace studies, philosophy, physical geography, political and international studies, psychology, screen and media studies, sociology, Spanish, studies in religion, theatre and performance, writing.

**Assumed knowledge:** Any 2 units of English.

### BUSINESS

**Areas of study:** Accounting, agribusiness, business analytics, economics, finance, human resource management, international business, management, marketing.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

### COMPUTER SCIENCE

**Areas of study:** Data science, software development.

**Recommended knowledge:** Mathematics Advanced.

### CRIMINOLOGY

**Assumed knowledge:** Any 2 units of English.

### ECONOMICS

**Areas of study:** Applied econometrics, economic development, economics, environmental analysis and policy.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

## EDUCATION

### Early Childhood and Primary

#### K-12 Teaching

**Assumed knowledge:** Minimum of three Band 5 (or E3) HSC results, including one in English, plus any 2 units of mathematics. See course entry requirements at [my.une.edu.au/courses](http://my.une.edu.au/courses) for full details.

#### K-6 Teaching

#### Special and Inclusive Education (Primary)

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

#### Secondary Arts

#### Secondary Mathematics

#### Secondary Science

#### Secondary Music (Distance only)

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

*For Secondary Mathematics:* Mathematics Extension 1.

*For Secondary Science:* Any 4 units of science.

*For Secondary Music:* Music.

**Additional selection criteria:** Admission to B Education (Secondary Music) requires:

- a performing standard equivalent to Grade 6 of the Australian Music Examinations Board demonstrated via audition or music performance qualification, and
- a music theory standard equivalent to Grade 4 of the Australian Music Examinations Board demonstrated via music performance qualifications or successful completion of a music theory test set by the Music Discipline convenor, and
- a personal statement assessed by the discipline.

## ENVIRONMENTAL SCIENCE

**Areas of study:** Conservation ecology, envirobusiness, natural resource management, remediation and restoration.

**Assumed knowledge:** Chemistry, Mathematics Advanced, any 2 units of English.

**Recommended Studies:** Biology.

## GEOSCIENCE

**Areas of study:** Digital geological mapping by GIS, environmental geology, geology, ore deposit geology.

**Assumed knowledge:** Any 2 units of English, Chemistry, Mathematics Advanced.

**Recommended studies:** Biology and/or Physics.

## HISTORICAL INQUIRY AND PRACTICE

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Ancient History or Modern History.

## INTERNATIONAL STUDIES

**Areas of study:** Global politics and peace, languages, societies.

**Assumed knowledge:** Any 2 units of English.

## LANGUAGES

**Areas of study:** Chinese (Mandarin), French, German, Indonesian, Italian, Japanese, Spanish.

**Assumed knowledge:** Any 2 units of English.

## LANGUAGES AND INTERNATIONAL BUSINESS

**Areas of study:** Chinese (Mandarin), French, German, Indonesian, Italian, Japanese, Spanish.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Mathematics Advanced.

## LAW

### LAW (DOUBLE DEGREES)

**Assumed knowledge:** For Law: Any 2 units of English.

*For the other area of study:* Refer to the relevant entry

- Agriculture/Law
- Arts/Law
- Business/Law
- Computer Science/Law
- Criminology/Law
- Economics/Law
- Environmental Science/Law
- Science/Law.

## MEDIA AND COMMUNICATION STUDIES

**Areas of study:** Media and culture, writing and publishing.

**Assumed knowledge:** Any 2 units of English.

## MEDICINE SCIENCE AND DOCTOR OF MEDICINE

**Areas of study:** Medicine.

**Recommended studies:** Any 2 units of English.

**Additional selection criteria:** Direct University Joint Medical Program application form, University Clinical Aptitude Test (UCAT), Multiple Skills Assessment (interview), Personal Qualities Assessment.

*The medical program is offered jointly by the University of Newcastle and the University of New England.*

## MUSIC (DISTANCE ONLY)

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Music.

**Additional selection criteria:** Admission to B Music requires:

- a performing standard equivalent to Grade 6 of the Australian Music Examinations Board demonstrated via audition or music performance qualification, and
- a music theory standard equivalent to Grade 4 of the Australian Music Examinations Board demonstrated via music performance qualifications or successful completion of a music theory test set by the Music Discipline convenor, and
- a personal statement assessed by the discipline.

## NURSING

**Assumed knowledge:** Any 2 units of English, any 2 units of science.

## PHARMACY WITH HONOURS

**Assumed knowledge:** Chemistry, Mathematics Advanced.

**Recommended studies:** Biology, Mathematics Extension 1.

## PSYCHOLOGICAL SCIENCE

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

## PSYCHOLOGY

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

## RURAL SCIENCE

**Areas of study:** Agricultural systems, animal and plant breeding, animal and plant nutrition, animal and plant physiology, biochemistry, cotton and grain production, farm management, horticultural science, meat science, pasture and crop agronomy, post-harvest technology, precision agriculture, sheep and wool science, soil science.

**Assumed knowledge:** Chemistry, Mathematics Advanced, any 2 units of English.

**Recommended studies:** Biology.

---

## SCIENCE

### Biomedical

**Assumed knowledge:** Mathematics Advanced.  
**Recommended studies:** Biology and Chemistry.

### Science

**Areas of study:** Animal science and veterinary studies, applied physics, archaeology, biochemistry/biotechnology, biodiversity, botany, chemistry, computational science, forensic science, genetics, geography, geoscience, mathematics, medical chemistry, microbiology, neuroscience, palaeobiology, physiology, psychology, zoology.  
**Assumed knowledge:** Mathematics Advanced.  
**Recommended studies:** Depending on degree subjects chosen, Biology, Chemistry and/or Physics.

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## SCIENTIFIC STUDIES

**Assumed knowledge:** Any 2 units of English.

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## SOCIAL SCIENCE

**Areas of study:** Aboriginal perspectives, criminology, health management, linguistics, organisational management, peace and developmental studies, political and international studies, psychology, social philosophy, sociology, urban and regional studies.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Any 2 units of mathematics (if majoring in Psychology).

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## SOCIAL WORK

**Recommended studies:** Any 2 units of English.

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## SPORTS AND EXERCISE SCIENCE

### Clinical Exercise Physiology

### Exercise and Sports Science

**Assumed knowledge:** Any 2 units of mathematics, Personal Development, Health and Physical Education (PDHPE) and/or any 2 units of science.  
**Recommended studies:** Chemistry and/or Biology.

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## SUSTAINABILITY

**Areas of study:** Community engagement and development, cultural heritage management, environmental governance, environmental resilience, governance and regulation.  
**Assumed knowledge:** Any 2 units of English.

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## URBAN AND REGIONAL PLANNING

**Assumed knowledge:** Any 2 units of English.

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## ZOOLOGY

**Areas of study:** Animal behaviour, animal physiology, animal/freshwater/marine ecology, entomology, environmental and comparative physiology, freshwater ecology, marine ecology, parasitology.  
**Assumed knowledge:** Chemistry, Mathematics Advanced, any 2 units of English.  
**Recommended studies:** Biology.

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## COMBINED DEGREES

If you intend to undertake combined degrees, check the prerequisites, assumed knowledge and recommended studies for both degrees.

- Agriculture/Business
- Arts/Business
- Arts/Science
- Business/Economics.

Contact the University for further details.

Double degrees in Law are also offered. Refer to Law entry for details.



## UNIVERSITY OF NEWCASTLE

newcastle.edu.au  
CRICOS provider number 00109J



## GET IN TOUCH

Student Central Hunter  
The University of Newcastle  
University Drive, Callaghan NSW 2308

**telephone:** (02) 4921 5000 or  
(02) 4348 4000 for Central Coast Campus  
**email:** via [newcastle.edu.au/askuon](mailto:newcastle.edu.au/askuon)

## In person

**Newcastle campus (Callaghan)**

Student Central Hunter or  
Student Central Shortland  
University Drive, Callaghan NSW 2308

**Newcastle City campus**

Student Central City, Level 1  
Cnr Hunter and Auckland Streets  
Newcastle NSW 2300

**Central Coast campus (Ourimbah)**

Student Central Ourimbah  
The University of Newcastle  
Central Coast Campus, 10 Chittaway  
Road  
Ourimbah NSW 2258

**Port Macquarie campus**

Student Central Port Macquarie  
Upper Level, B Block (Library)  
Widderson Street  
Port Macquarie NSW 2444

## READ THIS FIRST

- *The University of Newcastle recognises performance in relevant HSC subjects. For information about the University of Year 12 Subject Spotlight Early Offer Scheme and Year 12 Adjustment Scheme, visit [newcastle.edu.au/study/undergraduate/getting-in](http://newcastle.edu.au/study/undergraduate/getting-in).*
- *The University of Newcastle offers a number of refresher and preparation courses to assist students who may not have the recommended studies or assumed knowledge requirements. The preparation courses are offered before term commences and cover many areas such as mathematics, chemistry, physics and other specific academic skills. Information about preparation courses is available on the University of Newcastle website at [newcastle.edu.au/future-students/uonprep-bridging-courses/about-uonprep-bridging-courses](http://newcastle.edu.au/future-students/uonprep-bridging-courses/about-uonprep-bridging-courses).*
- *Not all campuses offer all courses and areas of study. Visit the University website for course locations.*
- *When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.*

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ARTS

**Areas of study:** Ancient history; Chinese; creative and performing arts; education; English and writing; film, media and cultural studies; French; gender and sexuality studies; German; global Indigenous studies; history; human geography and the environment; information technology; Japanese; linguistics; studies of religion; psychology studies\*; sociology and anthropology; violence studies; writing studies.

**Recommended studies:** For psychology studies\*: Mathematics Advanced. For all other majors: English Advanced.

\* Psychology studies are not accredited by the Australian Psychology Accreditation Council.

## BIOMEDICAL SCIENCE

**Areas of study:** Biology, chemistry, mathematics, physics.

**Assumed knowledge:** Mathematics Advanced, Chemistry, Physics, Biology.

## BIOTECHNOLOGY

**Areas of study:** Biochemistry, bioethics, biotechnology, biotechnology finance and commercialisation, cell and molecular biology, DNA technology, microbiology, molecular genetics, reproductive physiology.

**Assumed knowledge:** Mathematics Advanced, Chemistry.

**Recommended studies:** Biology, Physics.

## BUSINESS

**Areas of study:** Entrepreneurship and innovation, governance, human resource management, international business, leadership and management, marketing, policy and political economy, sports management and tourism management.

**Assumed knowledge:** Mathematics Advanced.

## COMMERCE

**Areas of study:** Accounting, economics, finance.

**Assumed knowledge:** Mathematics Advanced.

## COMMUNICATION

**Areas of study:** Journalism, media production, media studies, public relations.

**Assumed knowledge:** Any 2 units of English.

## COMPUTER SCIENCE

**Areas of study:** Students choose to major in Computer Systems and Robotics, Cyber Security, Data Science, or Software Development. The program also includes courses in advanced programming techniques, algorithms, artificial intelligence and machine learning, compilers, computer graphics, computer networks, data mining, data security, databases and different programming languages, experimental and theoretical aspects in computer science, fundamentals of software development, human computer interaction, object-oriented technologies,



operating systems, software verification, systems, theory of computation, web engineering.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1.

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## CONSTRUCTION MANAGEMENT

**Areas of study:** Building information modelling, construction management, construction technology, environmentally sustainable development, estimating, information and communication technology, project management, quantity surveying and estimating, risk management.

**Recommended studies:** Any 2 units of English, Mathematics Advanced.

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## CREATIVE INDUSTRIES

**Areas of study:** Communication and media, creative and performing arts, design, imaging technologies, information technology, music, studio practices, visual art, writing and publishing.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** One or more of English Advanced, Drama, Design and Technology, Information Processes and Technology, Software Design and Development, Visual Arts, any 2 units of music.

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## DESIGN (ARCHITECTURE)

**Areas of study:** Architectural design, architectural history and theory, architectural technology, professional practice.

**Recommended studies:** Any 2 units of English, Ancient History or Modern History, plus one or more of Visual Arts, Design and Technology, Industrial Technology.

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## DEVELOPMENT STUDIES

**Areas of study:** Cultures and citizenship, environmental sustainability, globalisation and economic development, urban and regional development.

**Recommended studies:** Any 2 units of English.

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## EDUCATION

### Early Childhood and Primary

**Areas of study:** Aboriginal education, behaviour management, children's learning and growth across the span of birth-12 years, ethics and professional codes of conduct, families and society, language and mathematical learning, policy and issues, programming and planning for children aged 0-5 years, psychology of learning and teaching, special education.

**Assumed knowledge:** HSC Band 5 results in a minimum of three subjects, one of which must be English.

**Recommended studies:** Mathematics Advanced.

### Primary

**Areas of study:** Behaviour management, foundations of primary education, how to teach K-6 curriculum, language and literacy development, psychology of learning and teaching.

**Assumed knowledge:** HSC Band 5 results in a minimum of three subjects, one of which must be English.

### Secondary

**Areas of study:** Aboriginal studies, ancient history, biology, business studies, chemistry, computing technology, design technologies, drama, earth and environmental science, economics, English, French, geography, German, health and physical education, information systems and software design, Japanese, mathematics, modern history, physics, society and culture, visual arts.

**Assumed knowledge:** HSC Band 5 results in a minimum of three subjects, one of which must be English.

---

## ENGINEERING

### Aerospace

**Areas of study:** Aerospace design and materials, aircraft operations and performance, avionics, embedded systems engineering, principles of flight, propulsion.

**Assumed knowledge:** Mathematics Advanced (Band 5), any 2 units of science (Physics or Chemistry preferred).

**Recommended studies:** Mathematics Extension 1 plus Physics or Chemistry.

### Chemical

**Areas of study:** Chemical engineering with specific courses in catalytic processing, coal and mineral processing, design of clean and economical processes, environmental processing and safety, fundamental process-engineering, liquids and gases, process control, project management and research, reactions and separations across solids.

**Assumed knowledge:** Mathematics Advanced (Band 5), any 2 units of science (Physics or Chemistry preferred).

**Recommended studies:** Mathematics Extension 1 plus Physics or Chemistry.

### Civil

**Areas of study:** Engineering design, fluid mechanics, geotechnical engineering, materials, pollution control, project and asset management, risk assessment, structural engineering, surveying, transportation engineering, water resources engineering, water treatment.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

### Computer Systems

**Areas of study:** Communication networks, computer architecture, computer engineering, digital systems design, distributed systems, electronics, embedded systems, engineering management and systems, programmable logic design, software engineering, systems design, web engineering.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

### Electrical and Electronic

**Areas of study:** Analog and digital communications, automatic control, computer engineering, electric energy systems, electric machines and power systems, electrical engineering design, electronics, engineering mathematics, physics, procedural programming, signals and systems.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

### Environmental

**Areas of study:** Biology, chemical engineering, chemistry, environmental planning and design, fluid mechanics, geotechnical engineering, land and water management, surface and groundwater pollutant transport, waste treatment, water engineering.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

### Mechanical

**Areas of study:** Advanced computer-aided engineering, bulk solids handling, design of machines and processes, engineering management and advanced materials, fluid mechanics, heat transfer, properties and uses of materials, thermodynamics.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

### Mechatronics

**Areas of study:** Advanced control design, autonomous systems, electronics design, embedded systems design, mechanical design and software design, robotics, sensors and actuators, vehicle dynamics.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

## Medical

**Areas of study:** You can choose to major in Medical Biomechanics, Medical Computing, Medical Devices or Medical Signal Analysis. You will also take courses in analog and digital communications, engineering design, human pathophysiology, neurobiology, pharmacology, programming and computing.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

## Mining transfer program

The Mining Engineering degree is comprised of two years' study at UON. Upon successful application through UAC the remaining two years are undertaken at UNSW Sydney or the University of Wollongong.

The studies undertaken at UON are the same as the first two years of our Civil Engineering program. For areas of study, assumed knowledge and recommended studies refer to the Civil Engineering entry.

## Renewable Energy

**Areas of study:** Bioenergy, geothermal, grid integration, hydro and hybrid systems, power system design, solar, wind, plus electives in climate change policy, law and economics, social and environmental sciences.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

## Software

**Areas of study:** Defence and combatting of cyber attacks, design of wearable health management devices, software development for digital forensics analysis and robotically-assisted surgery.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

## ENVIRONMENTAL SCIENCE AND MANAGEMENT

**Areas of study:** Earth systems, ecosystems and biodiversity, marine science and sustainability.

**Assumed knowledge:** Mathematics Advanced plus Chemistry or Biology.

## EXERCISE AND SPORT SCIENCE

**Areas of study:** Biomechanics; exercise physiology; exercise testing and prescription; growth, development and ageing; motor control and learning; sport and exercise psychology; sports nutrition.

**Assumed knowledge:** At least two of Biology, Chemistry, Mathematics Advanced, Physics.

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE).

## FOOD SCIENCE AND HUMAN NUTRITION

**Areas of study:** Biomedical science, chemistry, food analysis, food and nutrition, food product development, functional foods and health claims, macronutrients, micronutrients, nutrition in health and disease, plant and animal food products.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced.

## GLOBAL INDIGENOUS STUDIES

**Areas of study:** Entrepreneurship and innovation, film, gender and sexuality studies, global indigenous studies, global Indigenous studies, governance, human geography and the environment, human resource management, human services, information technology, media and cultural studies, policy and political economy, sociology and anthropology, writing studies. Some selected majors are available fully online.

## INFORMATION TECHNOLOGY

**Areas of study:** You will choose to major in either Business Technology, Interactive Media or Systems Development. The program also includes courses in advanced programming techniques, algorithms, artificial intelligence and machine learning, computer graphics and networks, computer science, data mining, data security, databases, human computer interaction, object-oriented technologies, operating systems, programming languages, software development, software verification, systems, theory of computation, web engineering.

**Assumed knowledge:** Any 2 units of English.

## LAWS (COMBINED)

- Global Indigenous Studies/Laws
- Arts/Laws
- Business/Laws
- Commerce/Laws
- Communication/Laws
- Development Studies/Laws
- Innovation and Entrepreneurship/Laws
- Science/Laws
- Social Science/Laws

**Assumed knowledge:** For Laws: None. For other areas of study: Refer to the relevant entry.

**Recommended studies:** For Laws: None. For other area. of study: Refer to the relevant entry.

## MATHEMATICS

**Areas of study:** Applied mathematics, pure mathematics and statistics.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Mathematics Extension 1.

## MEDICAL RADIATION SCIENCE (DIAGNOSTIC RADIOGRAPHY)

**Areas of study:** Anatomy and physiology, clinical education, instrumentation, physics, radiation protection, research methodology.

**Assumed knowledge:** Any 2 units of English plus Mathematics Advanced or Physics.

## MEDICAL RADIATION SCIENCE (NUCLEAR MEDICINE)

**Areas of study:** Anatomy, molecular imaging, nuclear medicine instrumentation and radiopharmacy, nuclear medicine theory, patient care, physiology, psychology, research methodology.

**Assumed knowledge:** Any 2 units of English plus Mathematics Advanced or Physics.

## MEDICAL RADIATION SCIENCE (RADIATION THERAPY)

**Areas of study:** Anatomy, behavioural science, clinical methods, imaging and treatment, oncology, statistics and research methodology.

**Assumed knowledge:** Any 2 units of English plus Mathematics Advanced or Physics.

## MEDICINE

*The medical program is offered jointly by the University of Newcastle and the University of New England.*

**Areas of study:** Clinical medical and surgical specialties (eg respiratory and cardiovascular medicine, cancer treatment, orthopaedics), community and public health, hospital based medicine, medical sciences, mental health, women's and children's health. Skills in research and the critical evaluation of evidence are also introduced.

**Recommended studies:** Any 2 units of English.

**Additional selection criteria:** Direct University Joint Medical Program application form, University Clinical Aptitude Test (UCAT), Multiple Skills Assessment (interview), Personal Qualities Assessment.

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## MIDWIFERY

**Areas of study:** Antenatal care, care of the newborn baby, labour and birthing care, postnatal care.

**Assumed knowledge:** Any 2 units of English (Band 4), Mathematics Standard 2, Biology and/or Chemistry.

**Recommended studies:** English Standard.

**Additional selection criteria:** Direct University B Midwifery Clinical Placement Preference application form.

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## MUSIC

**Areas of study:** Composition, creative production, music in the creative industries, music research and communication, performance (instrument, voice), songwriting.

**Assumed knowledge:** Music 1 or demonstrated musical experience or qualification equivalent to Music 1 or AMEB (Grade 6 to 8 pass).

**Additional selection criteria:** Audition (performance), interview (oral assessment), application (written assessment).

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## NATURAL HISTORY ILLUSTRATION

**Areas of study:** Natural history illustration. Recommended elective studies include biological science, digital media design, environmental science, fine art, graphic design, interactive media, print technology.

**Recommended studies:** One or more of Visual Arts, Textiles and Design, Design and Technology, Investigating Science, Biology, Geography.

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## NURSING

**Areas of study:** Aged care; human bioscience; mental health; primary, secondary and tertiary nursing.

**Assumed knowledge:** Any 2 units of English plus Mathematics Standard 2, Chemistry and/or Biology.

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## NUTRITION AND DIETETICS

**Areas of study:** Basic and applied sciences, dietetic practice, food service and management, medical nutrition therapy, paediatric nutrition and dietetics, professional practice, public health nutrition, social sciences, statistics and research methodology.

**Recommended studies:** Chemistry.

---

## OCCUPATIONAL THERAPY

**Areas of study:** Anatomy and physiology, behavioural and occupational therapy, biomedical, mental health, occupational sciences, psychology, sociology and community development, statistics and research methodology.

**Recommended studies:** Biology, Mathematics Advanced, Chemistry.

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## ORAL HEALTH THERAPY

**Areas of study:** Clinical treatment for children, the elderly, Indigenous Australians and special needs groups; communication; dental therapy; health promotion; human bioscience and anatomy; oral pathology; periodontology; radiography.

**Recommended studies:** Biology, Chemistry.

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## PHARMACY

**Areas of study:** Anatomy and physiology, chemistry, dosage formulation, drug design and discovery, epidemiology, first aid, mental health, pharmacotherapeutics.

**Assumed knowledge:** Mathematics Advanced (Band 5), English Advanced, Chemistry, Physics.

**Recommended studies:** Mathematics Extension 1.

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## PHYSIOTHERAPY

**Areas of study:** Advanced anatomy and physiology, clinical physiotherapy studies, community health, health promotion, research methodology.

**Assumed knowledge:** English Advanced, Chemistry plus Physics or Biology.

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## PODIATRY

**Areas of study:** Anatomy, biomechanics, physiology, podiatric medicine.

**Assumed knowledge:** Chemistry, Mathematics Advanced.

---

## PSYCHOLOGICAL SCIENCE

**Areas of study:** Clinical and abnormal behaviour, cognition and information processing, developmental psychology, neuroscience, perceptual processes and learning theory, psychopharmacology, research methodology, social psychology and personality, statistics.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Biology.

---

## SCIENCE

**Areas of study:** You can choose to study from the following majors: Newcastle: Animal biology; biology; chemistry; chemistry of advanced materials; earth sciences; environmental and analytical chemistry; geography; geology; integrated geography; mathematics; medicinal and organic chemistry; physics; plant biology; psychology; statistics; sustainable resource management; water, climate and soil.

Central Coast: Biodiversity; coastal, conservation, ecological and marine sciences; conservation; environmental remediation; psychology; sustainable resource management.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Biology and/or Chemistry and/or Physics depending on major area of study.

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## SOCIAL SCIENCE

**Areas of study:** Criminology, global Indigenous studies, history, human geography and the environment, human resource management and industrial relations, human services, leisure and tourism management, linguistics, politics and international relations, psychology studies, sociology, anthropology.

**Recommended studies:** English Advanced. Other related subjects, such as Geography, History, Community and Family Studies, Society and Culture are recommended depending on the intended major.

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## SOCIAL WORK

**Areas of study:** Aboriginal studies, human services, law, psychology, sociology, social work.

**Recommended studies:** English Advanced, Society and Culture, Community and Family Studies, languages.

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## SPEECH PATHOLOGY

**Areas of study:** Human biomedical science, linguistics and psychology, speech pathology.

**Recommended studies:** Biology, Chemistry, Mathematics Advanced, English Advanced.

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## SURVEYING

**Areas of study:** Cadastral engineering and construction, geodesy, geographic information systems, geomatics, hydrographic surveying, land management, laser scanning, photogrammetry, satellite positioning, spatial information systems and computing, town planning and valuation, water resources.

**Assumed knowledge:** Mathematics Advanced (Band 5).

**Recommended studies:** Mathematics Extension 1, any 2 units of science.

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**VISUAL COMMUNICATION**

**Areas of study:** Design for advertising and new media, design principles and practices, design processes, digital technology, graphic design, illustration, media production – 2D Art, multimedia and animation, photography, scientific illustration, television and music video, typography, video, visual communication and experimental drawing, web multimedia.

**Recommended studies:** One or more of Visual Arts, Design and Technology, Textiles and Design, Industrial Technology.

All programs are subject to routine review. This may result in slight variations in subject offerings. Program list correct at time of printing.

**COMBINED PROGRAMS**

If you intend to undertake combined programs, check the prerequisites, assumed knowledge and recommended studies for both programs. Not all specialisations or majors within a program may be available within a combined program. Visit the University website for further details.

- Arts/Science
- Arts/ Innovation and Entrepreneurship
- Business/Innovation and Entrepreneurship
- Commerce/Innovation and Entrepreneurship
- Creative Industries/Innovation and Entrepreneurship
- Business/Commerce
- Development Studies/Business
- Development Studies/Social Science
- Engineering/Business
- Engineering/Computer Science
- Engineering/Engineering
- Engineering/Mathematics
- Engineering/Science
- Engineering/Surveying
- Food Science/Business
- Information Technology/Business
- Mathematics/Computer Science
- Mathematics/Science
- Music/Arts

Combined programs in Laws are also offered. Refer to Laws entry for details.

## Selecting your HSC subjects?

ATAR eligibility

career options

uni

SUBJECT COMPASS

can help you find your way to

Get started at [uac.edu.au/subjectcompass](http://uac.edu.au/subjectcompass)



## GET IN TOUCH

Admissions, Level 4, Jane Foss Russell Building  
The University of Sydney, NSW 2006

**telephone:** freecall 1800 SYD UNI  
(1800 793 864)

**email:** via [sydney.edu.au/ask-domestic](mailto:sydney.edu.au/ask-domestic)

## In person

Admissions, Level 3, Jane Foss Russell Building  
(enter from City Road), The University of Sydney, NSW 2006

## READ THIS FIRST

- A course prerequisite of *Mathematics Advanced (Band 4)* is required for courses in the areas of advanced computing, agriculture, commerce, engineering, medicine, pharmacy, project management, psychology, science, and veterinary science, including combined courses. This means that you must have reached this minimum standard in your NSW HSC or equivalent before you will be offered a place in the course. If you do not have the required course prerequisite you cannot be selected for the course, even though you may have met the other admission criteria. Admission criteria may include ATAR (or equivalent), or ATAR (or equivalent) and additional selection criteria (eg interview/audition/portfolio). For more information visit [sydney.edu.au/study/maths](http://sydney.edu.au/study/maths).
- A course prerequisite of any 2 units of English (not English as an Additional Language or Dialect (EALD)) (Band 5) and Band 5 in two other HSC subjects is required for some education courses.
- Most courses include assumed knowledge. This means you are expected to have studied these subjects in your NSW HSC or equivalent, and you may be disadvantaged if you have not completed them. Some courses also require the study of certain subjects (eg mathematics, chemistry or physics) during your first year at university. Bridging courses in Chemistry, Physics, Biology, Mathematics Advanced and Mathematics Extension 1 are offered for students who have not met the minimum assumed knowledge requirements.
- Where assumed knowledge depends on first-year subjects chosen, see the relevant faculty handbook at [sydney.edu.au/handbooks](http://sydney.edu.au/handbooks) for the available subjects.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ADVANCED COMPUTING

**Areas of study:** Computer science, databases, information systems, mathematics, programming, systems analysis.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Mathematics Extension 1.

## ARCHITECTURE

## Architecture and Environments

**Areas of study:** Architectural and environmental design, architectural history and theory, architectural sciences and technologies, digital architecture and communications, property and sustainability, urban design and planning.

**Assumed knowledge:** English Advanced, Mathematics Advanced.

## Design in Architecture

**Areas of study:** Architectural communications, architectural design, architectural history and theory, architectural technologies, art workshops, environment and sustainability, professional practice.

**Assumed knowledge:** English Advanced, Mathematics Advanced.

## ARTS AND SOCIAL SCIENCES

## Arts

## Dalyell Scholars

## International and Global Studies

## Languages

## Media and Communications

## Politics and International Relations

**Areas of study:** American studies; ancient history; anthropology; Arabic language and cultures; archaeology; art history; Asian studies; Australian literature; biblical studies and classical Hebrew; Celtic studies; Chinese studies; criminology cultural studies; digital cultures; diversity studies; econometrics; economic policy; economics; English; environmental, agricultural and resource economics; European studies; film studies; financial economics; French and francophone studies; gender studies; Germanic studies; Greek (ancient); Hebrew (modern); history; Indigenous studies; Indonesian studies; international comparative literary studies; international relations; Italian studies; Japanese studies; Jewish civilisation, thought and culture; Korean studies; Latin; linguistics; media studies; modern Greek; music; philosophy; political economy; politics; psychology; Sanskrit; social policy; socio-legal studies; sociology; Spanish and Latin American studies; studies in religion; theatre and performance studies; writing studies.

**Assumed knowledge:** Depends on first-year subjects chosen. In most cases, where a first-year subject has a level of assumed knowledge, there is an alternative subject available with no knowledge assumed.

## COMMERCE

**Areas of study:** Accounting, banking, business analytics, business information systems, business law, finance, industrial relations and human resource management, international business, management and marketing.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Depends on first-year subjects chosen.

## DENTISTRY

### Oral Health

**Areas of study:** Dental hygiene, dental therapy, oral health education and promotion.

**Assumed knowledge:** Chemistry, Biology.

### Science/Doctor of Dental Medicine

**Areas of study:** Anatomy and histology, biochemistry, bioinformatics, biology, chemistry, computer science, financial mathematics and statistics, geography, geology and geophysics, immunobiology, marine science, mathematics, medicinal chemistry, microbiology, nanoscience and technology, neuroscience, pharmacology, physics, physiology, plant science, statistics. All students undertake studies in biology.

For *Doctor of Dental Medicine*: Clinical dentistry, life sciences, research project.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Mathematics Extension 1. All students in Science must take some study in mathematics.

## DESIGN COMPUTING

**Areas of study:** App design, creative technology, design thinking, digital design, graphic design, human computer experience information architecture, information visualisation design, interaction design, physical computing, sound design, user-centred design, user-experience. Other related units and majors may be taken from fields including Arts and Social Sciences, Business, Engineering, Information Technology, Science.

**Assumed knowledge:** Mathematics Advanced.

## DIAGNOSTIC RADIOGRAPHY

**Areas of study:** Anatomy, biological sciences, clinical education, equipment and imaging techniques, image processing, pathology, physics, psychology, radiation biology.

**Recommended studies:** Mathematics Advanced plus one of Biology, Chemistry or Physics.

## ECONOMICS

**Areas of study:** Agricultural and resource economics, econometrics, economics, financial economics. Second area of study from those offered by the Business School (see Commerce) or Arts and Social Sciences.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Other assumed knowledge depends on first-year subjects chosen.

## EDUCATION

### Early Childhood

**Areas of study:** Child development and learning, education, learning studies (arts, health and wellbeing science, language, mathematics), professional studies.

**Assumed knowledge:** Depends on first-year subjects chosen.

**Additional selection criteria:** Personal statement.

### Primary

**Areas of study:** Education and primary education.

**Course prerequisites:** Any 2 units of English (not EALD) (Band 5), Band 5 in two other HSC subjects.

**Recommended studies:** Mathematics Advanced.

**Additional selection criteria:** Personal statement.

## Secondary

**Areas of study:** Health and physical education, humanities and social sciences, mathematics, science.

**Course prerequisites:** For *health and physical education*: Any 2 units of English (not EALD) (Band 5), Band 5 in two other HSC subjects.

For *mathematics and science*: Mathematics Advanced (Band 4).

**Assumed knowledge:** For *mathematics and science*: Mathematics Extension 1.

**Additional selection criteria:** Personal statement.

All science students must take some study in mathematics. Graduates intending to teach science at a secondary level must complete at least one year of study in chemistry or physics during their degree.

## ENGINEERING

### Aeronautical

### Biomedical

### Chemical and Biomolecular

### Civil

### Dalyell Scholars

### Electrical

### Flexible first year

### Mechanical

### Mechatronic

### Software

### Space Engineering major

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Mathematics Extension 1 plus Chemistry and/or Physics (depending on stream chosen).

## EXERCISE AND SPORT SCIENCE

### Exercise Physiology

### Exercise and Sport Science

**Areas of study:** 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.

**Assumed knowledge:** Chemistry, Mathematics Advanced.

## LAW (COMBINED)

- Arts/Laws
- Commerce/Laws
- Economics/Laws
- Engineering Honours/Laws
- Science/Laws

**Course prerequisites:** For *Law combined with Commerce, Economics, Engineering Honours or Science*: Mathematics Advanced (Band 4).

**Assumed knowledge:** For *Law*: None.

For the other area of study: Refer to the relevant entry.

## LIBERAL ARTS AND SCIENCE

**Areas of study:** Major from Arts and Social Sciences or a major from Science, a sequence of subjects in Science (if an Arts major is chosen) or in Arts (if a Science major is chosen) and a sequence in the Liberal Studies stream (analytical thinking, communication, culture, ethics, scientific enquiry, society and global citizenship, technological literacy). For subject areas, see Arts and Social Sciences or Science.

**Assumed knowledge:** Depends on first-year subjects chosen.

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## MEDICINE (DOUBLE DEGREE)

### Arts/Doctor of Medicine

### Science/Doctor of Medicine

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Refer to the relevant entry. All students in Double Degree Medicine must take some study in biology, physics and chemistry during their undergraduate degree. All students in Science/ Doctor of Medicine must take some study in mathematics during their undergraduate degree.

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## MUSIC

**Areas of study:** Composition, composition for creative industries, contemporary music practice, digital music and media, improvised music, music education, musicology, performance (historical, instrumental, jazz or vocal).

**Course prerequisites:** *For music education:* Any 2 units of English (not EALD) (Band 5), Band 5 in two other HSC subjects.

**Assumed knowledge:** Music 1. *For composition, music education and music performance:* Music 2.

**Additional selection criteria:** Audition and/or interview.

*For music education:* Audition and/or interview and personal statement.

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## NURSING

**Areas of study:** Child and adolescent health, chronic care, community healthcare, health and human biology, health policy, Indigenous health, mental health, palliative care, population health, professional practice.

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## OCCUPATIONAL THERAPY

**Areas of study:** Biological sciences, occupational therapy, social sciences, theory and practice.

**Recommended studies:** Biology.

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## PHARMACY

### Pharmacy

### Pharmacy and Management

**Areas of study:** Biology, chemistry, medicinal chemistry, pharmaceutical sciences, pharmaceuticals, pharmacology, pharmacy and pharmacy practice. *For pharmacy and management:* Business.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry.

**Recommended studies:** Biology or Physics.

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## PHYSIOTHERAPY

**Areas of study:** Biomechanics, exercise physiology, human anatomy and physiology, measurement of human performance, motor performance and learning, neuroscience, psychology, research design and statistics.

**Assumed knowledge:** Chemistry, Physics.

**Recommended studies:** Mathematics Advanced.

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## PROJECT MANAGEMENT

**Areas of study:** *Majors:* Built environment, construction. Studies include complex project coordination, management data, organisational behaviour, people and change, project change, project finance, psychology, quality management, risk management, statistics.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Mathematics Extension 1.

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## PSYCHOLOGY

**Areas of study:** Psychology, psychological science.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Depends on first-year subjects chosen.

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## SCIENCE

**Areas of study:** Agriculture; agroecosystems; anatomy and histology; animal and veterinary bioscience; animal health, disease and welfare; animal production; applied medical science; biochemistry and molecular biology; biology; cell and developmental biology; chemistry; computer science; data science; ecology and evolutionary biology; environmental science; environmental studies; financial mathematics and statistics; food and agribusiness; food science; genetics and genomics; geography; geology and geophysics; health; history and philosophy of science; human movement (Health stream only); immunology; immunology and pathology; infectious diseases; information systems; marine science; mathematical sciences; mathematics; medical science; medicinal chemistry; microbiology; nanoscience and nanotechnology; neuroscience; nutrition and dietetics; nutrition science; pathology; pharmacology; physics; physiology; plant production; plant science; psychological sciences; quantitative life sciences; software development; soil science and hydrology; statistics; virology; wildlife conservation.

### Science

### Science (Advanced)

### Dalyell Scholars including Mathematical Sciences

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Mathematics Extension 1. All students undertaking a science degree must take some study in mathematics. Other assumed knowledge depends on first-year subjects chosen.

### Agriculture

**Areas of study:** Agriculture, including a major in animal production, plant production or soil science and hydrology; plus a second major from those offered for Science.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry.

### Animal and Veterinary Bioscience

**Areas of study:** Animal and veterinary bioscience plus a second major from those offered for Science.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry.

**Recommended studies:** Biology.

### Food and Agribusiness

**Areas of study:** Food science and a second major from: Accounting, agricultural and resource economics, banking, business analytics, business information systems, business law, economic policy, economics, finance, industrial relations and human resource management, international business, management or marketing.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry.

**Recommended studies:** Biology.

### Health

**Areas of study:** Health, a second major from those offered for Science.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** *For human movement major:* Chemistry.

*For other majors:* Depends on first-year subjects chosen.

### Medical Science

**Areas of study:** Medical science including a major in anatomy, biochemistry, biology, cell pathology, genetics, histology, history and philosophy of science, immunology, infectious diseases, microbiology, molecular biology, pharmacology, physiology or psychology; plus a second major from those offered for Science.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry plus Biology or Physics.

### Taronga Wildlife Conservation

**Areas of study:** Wildlife conservation plus a second major from those offered for Science.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry.

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### SOCIAL WORK

**Areas of study:** Social policy, social work, sociology.

**Assumed knowledge:** Depends on first-year subjects chosen.

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### SPEECH PATHOLOGY

**Areas of study:** Audiology, biomedical sciences, linguistics and language development, neurobiology, phonetics, psychology, research methods, sociology, specialist areas (aphasia, dysarthria, dyslexia, stuttering).

**Recommended studies:** English Advanced.

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### VETERINARY BIOLOGY/DOCTOR OF VETERINARY MEDICINE

**Areas of study:** Animal diseases and pathology, animal husbandry, cell biology, chemistry, clinical and professional practice, pharmacology, veterinary anatomy and physiology, veterinary conservation biology, veterinary medicine, veterinary surgery.

**Course prerequisites:** Mathematics Advanced (Band 4).

**Assumed knowledge:** Chemistry, Physics.

**Recommended studies:** Biology.

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### VISUAL ARTS

**Areas of study:** Visual arts specialisation.

**Recommended studies:** Design and Technology, Visual Arts.

**Additional selection criteria:** Portfolio.

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### COMBINED AND DOUBLE DEGREES

For combined degrees, see the course prerequisites, assumed knowledge and recommended studies for both degrees.

- Advanced Computing/Commerce
- Advanced Computing/Science
- Advanced Computing/Science (Health)
- Advanced Computing/Science (Medical Science)
- Arts/Laws
- Arts/Master of Nursing
- Arts/Doctor of Medicine
- Arts/Social Work
- Commerce/Laws
- Design in Architecture (Honours)/Master of Architecture
- Economics/Laws
- Education (Secondary: Humanities and Social Sciences)/Arts
- Education (Secondary: Mathematics)/Science
- Education (Secondary: Science)/Science
- Engineering Honours/Arts
- Engineering Honours/Commerce
- Engineering Honours/Laws
- Engineering Honours/Project Management
- Engineering Honours/Science
- Engineering Honours/Science (Health)
- Engineering Honours/Science (Medical Science)
- Engineering Honours (Civil)/Design in Architecture
- Science/Laws
- Science/Doctor of Dental Medicine
- Science/Doctor of Medicine
- Science/Master of Mathematical Sciences
- Science/Master of Nursing
- Science/Master of Nutrition and Dietetics
- Science (Health)/Master of Nursing
- Science (Medical Science)/Doctor of Medicine
- Veterinary Biology/Doctor of Veterinary Medicine

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### ADVANCED STUDIES (COMBINED)

This is not a standalone degree. It may be taken in conjunction with:

- Arts
- Commerce
- Design Computing
- Economics
- Exercise and Sports Science
- Science
- Visual Arts.



## GET IN TOUCH

Student Centre, University of Technology Sydney  
PO Box 123, Broadway NSW 2007

**telephone:** 1300 ASK UTS (1300 275 887)

**email:** via ask.uts.edu.au

## In person

Level 2 (Entry level), Building 10, 235 Jones Street, Ultimo NSW 2007

## READ THIS FIRST

- There are no course prerequisites for entry into bachelor degree courses at UTS.
- When you read 'any 2 units of science' or 'at least 2 units of science' or 'any two science subjects', this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

## ADVANCED SCIENCE

### Advanced Science – Advanced Materials and Data Science

**Areas of study:** Chemistry, computational physics, data science, energy science and technology, mathematics for physical science, quantum physics, solid-state science and nanodevices, surface processes.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Mathematics Extension 1, Physics.

### Advanced Science – Environmental Biotechnology

**Areas of study:** Bioinformatics, biotechnology, cell biology and genetics, chemistry, environmental biotechnology, mathematical modelling for science, medical biotechnology, metabolic biochemistry, microbiology, molecular biology, physical aspects of nature.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Biology, Mathematics Extension 1.

### Advanced Science – Infection and Immunity

**Areas of study:** Bacteriology, chemistry, cell biology and genetics, drug discovery, haematology and immunology, human anatomy and physiology, microbiology, molecular biology, parasitology, pharmacology, physical aspects of nature.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Biology, Mathematics Extension 1.

### Advanced Science – Pre-medicine

**Areas of study:** Biochemistry, cell biology, chemistry, genetics, human anatomy and physiology, histology, microbiology, pathophysiology, pharmacology, physics, preparing for graduate medicine.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Biology, Mathematics Extension 1.

### Advanced Science – Pharmaceutical Sciences

**Areas of study:** Cell biology and genetics, drug discovery, human anatomy, human anatomy and physiology, medical and applied physiology, medicinal chemistry, microbiology, pharmacology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Biology, Mathematics Extension 1.

## ANALYTICS

**Areas of study:** Consumer analytics, data analysis and analytics, database fundamentals, financial mathematics, mathematical analysis and modelling, operations analysis, probability, quantitative management, risk management.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Mathematics Extension 1.

## ARCHITECTURE

**Areas of study:** Architecture, construction technology, design, design history/theory, design technology, digital culture, ecodesign, environmental control, media, sustainability, thermal design.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

### Landscape Architecture

**Areas of study:** Botany, design of landscapes in urban and rural contexts, ecology, graphic communications, hydrology, professional practice, research, sustainability.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts, Geography, Earth and Environmental Science.

## COMMUNICATION

### Communication – Creative Writing

**Areas of study:** Creative non-fiction writing, critical analysis, fiction writing, genre writing, narrative, poetry, screenwriting, textual theory.

**Assumed knowledge:** Any 2 units of English.

### Communication – Digital and Social Media

**Areas of study:** Digital communities, digital marketing, digital technologies, programming, social media platforms, user experience design, user interface design.

**Assumed knowledge:** Any 2 units of English.

### Communication – Journalism

**Areas of study:** Data journalism, digital publishing, ethical practice, investigative journalism, long-form storytelling, radio and TV journalism, reflective practice, reporting online, social media.

**Assumed knowledge:** Any 2 units of English.

### Communication – Media Arts and Production

**Areas of study:** Cinematography, documentary, drama, film studies, media arts, multi-platform storytelling, multimedia, post production, producing, sound.

**Assumed knowledge:** Any 2 units of English.

### Communication – Public Communication

**Areas of study:** Advertising, integrated communication, public communication, public relations.

**Assumed knowledge:** Any 2 units of English.

### Communication – Social and Political Sciences

**Areas of study:** Analysing social and political change; communicating policy and producing online publications; developing policy analysis and advocacy; project research with an outside organisation; using real-world social research and research methods; using theory from politics, sociology and political economy.

**Assumed knowledge:** Any 2 units of English.

### Music and Sound Design

**Areas of study:** Audio production, music business, music technology, popular music studies, screen sound, song composition, sound design.

**Assumed knowledge:** Any 2 units of English.

## BIOMEDICAL PHYSICS

**Areas of study:** Advanced medical device technology, applied electronics and interfacing, biomedical physics, bionanotechnology, cell biology and genetics, chemistry, human anatomy and physiology, human pathophysiology, imaging science, mathematical modelling for science, medical imaging technology, physics in action, quantum physics, solid-state science and nanodevices.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Mathematics Extension 1, Physics.

## BIOMEDICAL SCIENCE

**Areas of study:** Allergy, anatomy, autoimmunity, biochemistry, blood banks, blood tests, blood transfusions, cell biology, clinical microbiology, diabetes, diagnosis disease, epidemiology, genetic screening, genetics, haematology, histology, histopathology, immunity, immunodeficiency, immunology, infection, laboratory, molecular biology, parasitology, pathology, physiology, proteomics, research, serology, stem cell, transplantation.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

**Recommended studies:** Chemistry, Mathematics Extension 1.

## BIOTECHNOLOGY

### Medical Biotechnology

**Areas of study:** Human anatomy and physiology, immunology, medical biotechnology, medical devices, microbiology, molecular biology, pharmacology, recombinant biology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

**Recommended studies:** Chemistry, Mathematics Extension 1.

### Environmental Biotechnology

**Areas of study:** Environmental chemistry, environmental engineering, environmental remediation, medical biotechnology, recombinant biology, wastewater engineering.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

**Recommended studies:** Chemistry, Mathematics Extension 1.

### Computational Biotechnology

**Areas of study:** Bioinformatics, data analysis, information systems, mathematical modelling, microbiology, molecular biology, programming fundamentals, recombinant biology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

**Recommended studies:** Chemistry, Mathematics Extension 1.

### Biosensor Biotechnology

**Areas of study:** Biosensors, human anatomy and physiology, mathematics, medical devices, medical imaging, nanophotonics, nanotechnology, physical modelling.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

**Recommended studies:** Chemistry, Mathematics Extension 1.

## BUILDING

### Construction Project Management

**Areas of study:** Building surveying, business management, contract management, construction site management, construction technology, cost planning and professional practice, design management, economics, estimating, law, project management, quantity surveying, risk and safety management, services, structures, sustainable development, time/cost/quality management.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Design and Technology, Engineering Studies, Construction (Exam), Economics, Business Studies, English Standard, Mathematics Extension 1 or Mathematics Extension 2.

## BUSINESS

### Accounting

**Areas of study:** Accounting, business.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

### Business

**Areas of study:** Accounting, business, business law\*, economics, finance, human resource management, information technology\*, international business, management, marketing, advertising and marketing communication.

\* Second major only

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

### Economics

**Areas of study:** Applied microeconomics, behavioural economics, econometrics, economic policy, economics of money and finance, economics of the environment, experimental economics, finance, game theory, industrial organisation, labour economics, macroeconomics, management, market design, marketing and business law, microeconomics, public economics.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

### Management

#### (Digital Creative Enterprise, Events, Sport Business, Tourism)

**Areas of study:** Business strategy, creative industries in the collaborative economy, current challenges in tourism, current issues in sport, digital strategy and governance, entrepreneurship studio, event and entertainment, event management, event sponsorship, events, innovation and entrepreneurship, international sport marketplace, management, management research skills, managing professional sport, managing risk and opportunity, promoting events, scenario planning, sport business, sport marketing, sustainable tourism, tourism, tourism promotion, tourist experience.

**Assumed knowledge:** Any 2 units of English.

## DESIGN

### Animation

**Areas of study:** 2D animation, 3D computer animation, character design, design history, storyboarding, scriptwriting and narrative, visual effects.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

### Fashion and Textiles

**Areas of study:** 2D and 3D pattern-making approaches, conceptual thinking, experimental design, fashion design practice, fashion history, fashion research, global fashion studios, menswear, sustainable fashion, textile design practice, womenswear.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Textiles and Design, Visual Arts.

## Product Design

**Areas of study:** Contemporary and advanced concept design, design history, design thinking, experience design, industrial design, innovation and commercialisation, interaction design, product engineering, user-centred design.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

## Interior Architecture

**Areas of study:** Design history and theory, exhibition design, interior design to urban design, lighting design, performance design, professional practice and design technology, spatial communications.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

## Photography

**Areas of study:** Analogue photography, art history and theory, communication studies, computer technology, computing and design, concept development, critical thinking, cultural studies, darkroom photography, design history/theory, design technology, design thinking, digital media, digital photography, digital producer, directing, electronic arts/digital arts, experimental image making, fashion images, film and video, image studies, installation design, mass communication, media and digital culture, media arts, moving image design, multimedia, performance, photobook design, photojournalism, photomedia, video production, visual arts.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

## Visual Communication

**Areas of study:** Augmented reality, branding, creative code, critical practice, critical thinking, data visualisation, design fiction, design for animation, design history, design thinking, exhibition design, experiential design, illustration, inclusive design, information design, interactive design, motion graphics, participatory design, service design, speculative design, strategic design, transition design, typography, virtual reality, web design.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

## EDUCATION

### Primary and Secondary

**Areas of study:** Contextual studies of education, curriculum studies in all key learning areas taught in primary schools (creative arts, discipline studies, English, health and physical education, mathematics, personal development, professional experience, science and technology), social and environmental education, teaching method subjects for discipline areas taught in secondary schools.

**Assumed knowledge:** Any 2 units of English (excluding EAL/D).

**Recommended studies:** Mathematics Advanced is recommended for students wanting to study the Mathematics stream within the Secondary Education major. Any 2 units of science are recommended for students wanting to study the Science stream within the Secondary Education major.

**Additional selection criteria:** Personal statement and a minimum of three Band 5 HSC results, including one in English (not EAL/D), as per the NESA requirements.

## ENGINEERING

**Areas of study:** Biomedical, civil, civil and environmental, data, electrical, electronic, mechanical, mechanical and mechatronic, mechatronic, software.

**Assumed knowledge:** Mathematics Extension 1, Physics, English Standard.

**Recommended studies:** English Advanced. For the biomedical, civil, and civil and environmental engineering majors, Chemistry. For the software engineering major, a sound knowledge of the fundamentals of programming is recommended.

**Additional selection criteria:** Questionnaire.

## ENVIRONMENTAL BIOLOGY

**Areas of study:** Biodiversity; cell biology and genetics; ecology of freshwater, estuarine and marine systems; environmental chemistry; experimental design and data analysis; GIS and remote sensing; marine geoscience; plant and wildlife ecology and management; structure, behaviour and physiology of plants and animals (additional subjects are available after first year for in-depth specialisation in selected areas).

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

## FORENSIC SCIENCE

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

**Recommended studies:** Chemistry, Physics, Mathematics Extension 1.

### Forensic Science – Chemistry

**Areas of study:** Analytical chemistry, chemical criminalistics, document and counterfeiting, drug analysis, fire and explosion, forensic intelligence, organic chemistry, toxicology.

### Forensic Science – Biology

**Areas of study:** Advanced genomics, bioinformatics, biological criminalistics, bionanotechnology, DNA profiling, investigation of human remains, metabolic biochemistry, microbiology, molecular biology.

### Forensic Science – Crime Scene Investigation

**Areas of study:** Advanced forensic imaging and recovery, criminalistics, forensic intelligence, homicide investigation, investigation of human remains, major scene investigation, organic chemistry.

### Forensic Science – Digital Forensics

**Areas of study:** Digital crime and cybercrime, digital trace and identity, forensic intelligence, forensic statistics, mobile networking, network security, web and monitoring investigation.

## GLOBAL STUDIES

**Areas of study:** Business studies, communication, globalisation, health, legal studies, management studies.

**Assumed knowledge:** Any 2 units of English.

## HEALTH SCIENCE

### Health Science

**Areas of study:** Analytics, contemporary health issues, data analytics, digital health, epidemiology, global health, human structure and function, pharmacology, sport and exercise.

**Assumed knowledge:** Any 2 units of English.

### Traditional Chinese Medicine

**Areas of study:** Acupuncture, auricular acupuncture, biomedical anatomy, channel, Chinese herbs, Chinese massage, Chinese medicinal preparations, clinical assessment and examination, clinical practice, complementary and alternative medicine, critical thinking and aseptic technique, diagnosis, electro acupuncture, herbal medicine, laser acupuncture, materials and formula, meridian, pathophysiology, pharmacology, philosophy of Chinese medicine, physiology, practice management, reflective practices, research methods, trigger point.

**Assumed knowledge:** Any 2 units of English, any 2 units of science.

**Recommended studies:** Biology.

## INFORMATION TECHNOLOGY

**Areas of study:** Business analysis, business-focused information system modelling, computing and IT fundamentals, industry-based learning.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** English Advanced, Mathematics Extension 1.

**Additional selection criteria:** Questionnaire.

## Computing Science

**Areas of study:** Artificial intelligence and data analytics, business information systems management, cybersecurity and privacy, enterprise systems development, interaction design, mathematical analysis, networking and cybersecurity, operations research, statistics.

**Assumed knowledge:** Mathematics Extension 1, any 2 units of English.

**Recommended studies:** English Advanced.

## Games Development

**Areas of study:** Animation, computing and IT fundamentals, game design, graphics, software engineering, systems development.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** English Advanced, Mathematics Extension 1.

## LAW

### LAW (LLB)

### LAW (COMBINED)

- Business/Law
- Communication (Creative Writing)/Law
- Communication (Digital and Social Media)/Law
- Communication (Journalism)/Law
- Communication (Media Arts and Production)/Law
- Communication (Public Communication)/Law
- Communication (Social and Political Sciences)/Law
- Creative Intelligence and Innovation/Law
- Economics/Law
- Engineering Science/Law
- Forensic Science/Law
- International Studies/Law
- Medical Science/Law
- Science/Law
- Science in Information Technology/Law

**Areas of study:** *For Law:* Commercial law, contracts, corporate law, criminal law, dispute resolution, employment law, environmental law, family law, finance and banking law, health and medical law, human rights, Indigenous knowledge, industrial law, intellectual property, international law, justice studies, law and technology, legal theory, media and privacy law, public international law, regulation and compliance, remedies, torts.

*For the other area of study:* Refer to the relevant entry.

**Assumed knowledge:** *For Law:* Any 2 units of English.

## MARINE BIOLOGY

**Areas of study:** Animal behaviour and physiology, biological diversity, coral reef ecosystems, ecology, environmental protection and management, fisheries, GIS and remote sensing, marine communities, marine geoscience, marine primary producers.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

## MEDICINAL CHEMISTRY

**Areas of study:** Analytical chemistry, cell biology and genetics, human anatomy and physiology, inorganic chemistry, mathematical modelling for science, medicinal chemistry, metabolic biochemistry, organic chemistry, pharmacology, physical chemistry, physiological systems, principles of scientific practice, spectroscopy and structure, strategies in drug synthesis.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science, any 2 units of English.

**Recommended studies:** Chemistry, Mathematics Extension 1.

## MEDICAL SCIENCE

**Areas of study:** Anatomy, cell biology, diagnostics, drugs, genetics, haematology, human diseases, immunology, medical devices, medicine, metabolic biochemistry, microbiology, molecular biology, neuroscience, pharmacology, physiology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.

## MIDWIFERY

**Areas of study:** Midwifery.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of science, any 2 units of mathematics.

## NURSING

**Areas of study:** Nursing.

**Assumed knowledge:** English Standard.

**Recommended studies:** Any 2 units of science, any 2 units of mathematics.

## PROPERTY ECONOMICS

**Areas of study:** Economics, financial management, investment and valuation, land appraisal/land evaluation, land economics, legal studies, planning/land management/land science, property management, real estate management.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

## SCIENCE

**Assumed knowledge:** *For all Science courses:* Mathematics Advanced, any 2 units of English, any 2 units of science unless otherwise specified. Mathematics Extension 1 is recommended for those majoring in mathematics/statistics. Refer to 'Read this first' at the beginning of the UTS entry.

### Chemistry

**Areas of study:** Analytical, inorganic, organic and physical chemistry; materials science; polymer science and surface chemistry. Students also have the opportunity to take subjects in forensic chemistry, medicinal, pharmaceutical and toxicological chemistry, nanotechnology.

**Recommended studies:** Chemistry, Mathematics Extension 1, Physics.

### Applied Physics

**Areas of study:** Advanced mechanics, computer modelling, electronics and computer interfacing, measurement analysis, nanophotonics, optics, quantum physics, scanning probe and electron microscopy, solid-state science, thermodynamics.

**Recommended studies:** Chemistry, Mathematics Extension 1, Physics.

### Biomedical Science

**Areas of study:** Anatomy, animal and plant biotechnology, biobusiness, biochemistry, bioreactors and bioprocessing, cell biology and genetics, environmental biotechnology, haematology, immunology, medical devices, microbiology, molecular biology, neuroscience, parasitology, pathology, pathophysiology, pharmacology, physiology.

**Recommended studies:** Chemistry, Mathematics Extension 1.

### Biotechnology

**Areas of study:** Anatomy, animal and plant biotechnology, biobusiness, biochemistry, bioreactors and bioprocessing, cell biology and genetics, environmental biotechnology, haematology, immunology, medical devices, microbiology, molecular biology, neuroscience, parasitology, pathology, pathophysiology, pharmacology, physiology.

**Recommended studies:** Chemistry, Mathematics Extension 1.

### Environmental Sciences

**Areas of study:** Biodiversity, ecosystem protection and management; cell biology and genetics; environmental chemistry; environmental management; experimental design and analysis of ecological data; fisheries resources; freshwater ecology, estuarine and marine systems; GIS and remote sensing; marine geoscience; plant and wildlife ecology and management; pollution impacts on ecosystems; structure, behaviour and physiology of plants and animals.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English, any 2 units of science.



## Flexible

**Areas of study:** Analytical chemistry, organic and inorganic chemistry; applied physics; biotechnology; environmental sciences; marine biology; mathematics and statistics; medical science and biomedical science; nanomaterials and nanotechnology.

**Assumed knowledge:** Chemistry, Mathematics Extension 1.

## Mathematics

**Areas of study:** Analysis of commercial and scientific data; applied statistics; design of statistical studies in commerce, industry and society; quantitative methods in management and logistics; theoretical foundations of applied mathematics and statistics. Students can choose additional studies in business, finance, law or information technology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Mathematics Extension 1.

## Medical Science

**Areas of study:** Anatomy, animal and plant biotechnology, biobusiness, biochemistry, bioreactors and bioprocessing, cell biology and genetics, environmental biotechnology, haematology, immunology, medical devices, microbiology, molecular biology, neuroscience, parasitology, pathology, pathophysiology, pharmacology, physiology.

**Recommended studies:** Chemistry, Mathematics Extension 1.

## Nanotechnology

**Areas of study:** Bionanotechnology, materials science, nanofabrication, nanomaterials, nanoscale sensors, nanotubes.

**Recommended studies:** Chemistry, Mathematics Extension 1, Physics.

## Statistics

**Areas of study:** Analysis of commercial and scientific data; applied statistics; design of statistical studies in commerce, industry and society; quantitative methods in management and logistics; theoretical foundations of applied mathematics and statistics. Students can choose additional studies in business, finance, law or information technology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Mathematics Extension 1.

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## SPORT AND EXERCISE MANAGEMENT

**Areas of study:** Accounting, anatomy, biomechanics, exercise management, exercise physiology, law, sport management, sports marketing, sports psychology, sports science, strategic management, management, sport and exercise.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

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## SPORT AND EXERCISE SCIENCE

**Areas of study:** Anatomy, biomechanics, exercise physiology, exercise prescription, exercise rehabilitation, health, human movement, motor learning, personal development, sports psychology, sports science, strength and conditioning.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

## Exercise Therapy

**Areas of study:** Sport and exercise science, health, physiotherapy.

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## COMBINED DEGREES

If you intend to undertake combined degrees check the prerequisites, assumed knowledge and recommended studies for both degrees.

Contact the University for further details.

- Biotechnology/Business
- Business/Information Technology
- Engineering/Business
- Medical Science/Business
- Medical Science/Engineering
- Science/Business
- Science/Engineering

Combined degrees in Law are also offered – refer to main subject entry for details.

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## INTERNATIONAL STUDIES (COMBINED)

- Analytics
- Animation
- Business
- Communication (Creative Writing)
- Communication (Digital and Social Media)
- Communication (Journalism)
- Communication (Media Arts and Production)
- Communication (Public Communication)
- Communication (Social and Political Sciences)
- Construction Project Management
- Education
- Engineering
- Fashion and Textiles
- Forensic Science
- Information Technology
- Interior Architecture
- Law
- Management
- Medical Science
- Music and Sound Design
- Nursing
- Photography
- Product Design
- Property Economics
- Science
- Sport and Exercise Management
- Sport and Exercise Science
- Traditional Chinese Medicine
- Visual Communication

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## CREATIVE INTELLIGENCE AND INNOVATION (COMBINED)

- Advanced Science
- Animation
- Architecture
- Biomedical Physics
- Business
- Communication (Creative Writing)
- Communication (Digital and Social Media)
- Communication (Journalism)
- Communication (Media Arts and Production)
- Communication (Public Communication)
- Communication (Social and Political Sciences)
- Engineering
- Fashion and Textiles
- Forensic Science
- Information Technology
- Interior Architecture
- Law
- Management
- Medicinal Chemistry
- Midwifery
- Nursing
- Product Design
- Science
- Sport and Exercise Science
- Visual Communication

**Areas of study:** *For creative intelligence and innovation:* Collaboration and co-creation, complexity, critical and creative thinking, entrepreneurship, future scenario building, innovation, invention.

**Assumed knowledge/Recommended studies:** Refer to the core degree to be combined with Creative Intelligence and Innovation.

## Innovation (Dip)

A Diploma in Innovation can be combined with one of the bachelor degree courses listed under Creative Intelligence and Innovation (Combined) as an alternative to the Bachelor of Creative Intelligence and Innovation.

## UNIVERSITY OF WOLLONGONG

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### GET IN TOUCH

UOW Future Students  
University of Wollongong, NSW 2522

**telephone:** 1300 367 869  
**email:** futurestudents@uow.edu.au

### In person

Admissions Advice, Student Central, (ground floor Building 17)  
Wollongong campus, Northfields Avenue, Gwynneville NSW 2500

### READ THIS FIRST

- *Mathematics Standard 2 and Investigating Science may not adequately prepare students for further studies in the areas of mathematics, engineering and science at the University of Wollongong. However, these courses can be included in the calculation of the ATAR.*
- *'Any 2 units of science' includes Biology, Chemistry, Earth and Environmental Science, Geography or Physics. It does not include Investigating Science.*
- *'Any 4 units of science' includes two courses from Biology, Chemistry, Earth and Environmental Science, Geography or Physics. It does not include Investigating Science.*

*Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.*

#### ARTS (HUMANITIES)

**Areas of study:** Chinese (Mandarin); community, culture and environment (Shoalhaven, Batemans Bay, Bega and Southern Highlands campuses only. Completion of full major subject to availability at time of enrolment.); creative writing; English literatures; French; history; Indigenous studies; international relations; Italian; Japanese; legal studies; philosophy; photography; politics; science and technology studies; sociology; Spanish; western civilisation (liberal arts); writing and English literature.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** English Advanced.

**Additional selection criteria for western civilisation:** Written application and interview.

#### ARTS (DIP)\*

**Areas of study:** Academic study, communication, computing studies, government and political systems, history and sociology.

**Assumed knowledge:** Any 2 units of English.

*\*subject to final approval*

#### BIONANOTECHNOLOGY

**Areas of study:** Molecular biology and biophysics, nanotechnology, physical and biological chemistry.

**Assumed knowledge:** Biology, Chemistry, Mathematics Advanced, Physics.

**Recommended studies:** Mathematics Extension 1.

#### BUSINESS

**Assumed knowledge:** Any 2 units of English.

#### BUSINESS (DIP)

**Areas of study:** Accounting, economics, finance, management, marketing.

**Assumed knowledge:** Any 2 units of English.

#### BUSINESS INFORMATION SYSTEMS

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Mathematics Advanced or Mathematics Standard 2.

#### COMMERCE

**Areas of study:** Accountancy, business law, economics, finance, financial planning, human resource management, international business, management, marketing, public relations, supply chain management.

**Assumed knowledge:** Any 2 units of English.

#### COMMERCE

##### - TAFE ADVANCED DIPLOMA OF EVENTS MANAGEMENT

##### - TAFE ADVANCED DIPLOMA OF HOSPITALITY MANAGEMENT

##### - TAFE ADVANCED DIPLOMA OF TOURISM AND TRAVEL MANAGEMENT

**Areas of study:** Human resource management, management, marketing, public relations.

**Assumed knowledge:** Any 2 units of English.

*These degrees are studied in conjunction with the relevant TAFE Advanced Diploma.*

#### COMMERCE GLOBAL (HONOURS)

**Areas of study:** Accountancy, finance.

**Assumed knowledge:** Any 2 units of English.

**Additional selection criteria:** Application and/or interview.

#### COMMUNICATION AND MEDIA

**Areas of study:** Communication and advertising, digital and social media, global screen media, journalism, marketing, visual communication design.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** English Advanced.

#### COMPUTER SCIENCE

**Areas of study:** Big data, computer science, cyber security, digital systems security, game and mobile development, software engineering.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

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## COMPUTER SCIENCE GLOBAL (HONOURS)

**Areas of study:** Big data, computer science, cyber security, digital systems security, game and mobile development, software engineering.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

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## CONSERVATION BIOLOGY

**Areas of study:** Conservation biology, landscape science, plant and animal ecology.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of science.  
**Recommended studies:** Biology, Chemistry.

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## CREATIVE ARTS

**Areas of study:** Creative writing, music, visual arts, visual arts and design.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** English Advanced. *For visual arts:* Design and Technology and/or Textiles and Design and/or Visual Arts.  
*For music:* Music 2 or Music Extension.

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## DATA SCIENCE AND ANALYTICS

**Areas of study:** Analytics, computer science and information technology, data modelling, data science, mathematics, statistics.  
**Course prerequisite:** Mathematics Advanced.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Mathematics Extension 1.

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## ECONOMICS AND FINANCE

**Areas of study:** Economics, finance.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

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## ENGINEERING

**Areas of study:** Architectural, biomedical, civil, computer, electrical, environmental, materials, mechanical, mechatronic, mining and telecommunications engineering.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of English.  
**Recommended studies:** Engineering Studies, Mathematics Extension 1, Physics, Chemistry (not required for computer, electrical, mechatronic or telecommunication engineering).

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## ENGINEERING - SCHOLAR

**Areas of study:** Architectural, biomedical, civil, computer, electrical, environmental, materials, mechanical, mechatronics, mining and telecommunications engineering.  
**Assumed knowledge:** Mathematics Extension 1, any 2 units of English.  
**Recommended studies:** Engineering Studies, Physics, Chemistry (not required for computer, electrical, mechatronics or telecommunications engineering).

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## ENGINEERING (DIP)

**Areas of study:** Design, mathematics, mechanics, physics.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of English.  
**Recommended studies:** Chemistry, Engineering Studies, Physics.

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## ENVIRONMENTAL SCIENCE

**Areas of study:** Earth sciences, environmental chemistry, land resources, life sciences.  
**Assumed knowledge:** Mathematics Advanced plus one of Biology, Chemistry, Earth and Environmental Science or Geography.  
**Recommended studies:** Any 4 units of science (including Biology or Chemistry).

---

## EXERCISE SCIENCE

**Areas of study:** Anatomy, biomechanics, exercise physiology, exercise prescription, physiology.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of science.  
**Recommended studies:** Biology, Chemistry.

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## EXERCISE SCIENCE AND REHABILITATION

**Areas of study:** Anatomy, biomechanics, exercise physiology, exercise prescription, exercise rehabilitation, physiology.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of science.  
**Recommended studies:** Biology, Chemistry.

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## GEOGRAPHY

**Areas of study:** Human and physical geography.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of science.  
**Recommended studies:** Earth and Environmental Science, Geography.

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## INDIGENOUS HEALTH

**Areas of study:** Community structures and organisations, health leadership and management, health promotion and policy change, Indigenous health issues, Indigenous health research.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Aboriginal Studies, any 2 units of science.

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## INFORMATION TECHNOLOGY

**Areas of study:** eBusiness, network design and management, social and digital innovation, web design and development.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Mathematics Advanced.

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## INFORMATION TECHNOLOGY INTERNATIONAL

**Areas of study:** eBusiness, network design and management, social and digital innovation, web design and development.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Mathematics Advanced.

---

## INFORMATION TECHNOLOGY (DIP)

**Areas of study:** Data management, networks and communications, programming, system analysis, web technology.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Any 2 units of mathematics.

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## INTERNATIONAL STUDIES

**Areas of study:** Global sustainable development, international relations, languages.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** English Advanced.

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## JOURNALISM

**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** English Advanced.

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## LANGUAGE STUDIES

**Areas of study:** Chinese (Mandarin), French, Italian, Japanese, Spanish.  
**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** English Advanced, any 2 units of a language.

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## LAW (SINGLE DEGREE)

**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** English Advanced.

## LAW (DOUBLE DEGREES)

- Arts/Law
- Arts Western Civilisation/Law\*
- Arts (Psychology)/Law
- Business/Law
- Commerce/Law
- Commerce Global/Law\*
- Communication and Media/Law
- Computer Science/Law
- Creative Arts/Law
- Economics and Finance/Law
- Engineering (Honours)/Law
- Information Technology/Law
- International Studies/Law
- Journalism/Law
- Mathematics/Law
- Politics, Philosophy and Economics/Law
- Psychological Science/Law
- Science/Law

**Assumed knowledge:** *For Law:* Any 2 units of English.

**Recommended studies:** *For Law:* English Advanced. *For the other area of study:* Refer to the relevant entry.

**Additional selection criteria:** \*Written application and interview.

## MARINE SCIENCE

**Areas of study:** Biodiversity of marine and freshwater organisms, coastal environments, conservation biology, ecology, fisheries and aquaculture, marine and terrestrial ecology, oceanography.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Any 4 units of science (including Biology and Chemistry).

## MATHEMATICS

### Mathematics

**Areas of study:** Industrial and applied mathematics, mathematical analysis, pure mathematics, statistics.

**Course prerequisite:** Mathematics Advanced.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Mathematics Extension 1.

### Mathematics and Finance

**Areas of study:** Financial planning, mathematical economics, quantitative and computational trading, quantitative corporate finance and investment, risk management and insurance.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Mathematics Extension 1.

**Mathematics Education – see Teaching**

## MATHEMATICS – ADVANCED

### Mathematics Advanced

**Areas of study:** Industrial and applied mathematics, mathematical analysis, pure mathematics, statistics.

**Course prerequisite:** Mathematics Extension 2.

## MEDICAL AND HEALTH SCIENCE

**Areas of study:** Anatomy, chemistry, neuroscience, physiology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Biology, Chemistry.

## MEDICAL AND RADIATION PHYSICS

**Areas of study:** Medical imaging, nuclear medicine, radiation protection, radiation therapy, radiobiology.

**Assumed knowledge:** Mathematics Advanced, Physics, any 2 units of English.

**Recommended studies:** Biology, Chemistry, English Advanced, Mathematics Extension 1.

## MEDICAL BIOTECHNOLOGY

**Areas of study:** Biochemistry, biotechnology, cellular and molecular biology, genetics, immunology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Biology, Chemistry.

## MEDICINAL CHEMISTRY

**Areas of study:** Biochemistry, pharmacology, physiology.

**Assumed knowledge:** Chemistry, Mathematics Advanced.

**Recommended studies:** Any 4 units of science.

## NURSING

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Mathematics Advanced, any 2 units of science.

## NUTRITION AND DIETETICS

**Areas of study:** Biochemistry, clinical dietetics, community and public health nutrition, food service management, nutrition research, physiology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Biology, Chemistry.

## NUTRITION SCIENCE

**Areas of study:** Biochemistry, community and public health nutrition, food composition, physiology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Biology, Chemistry.

## PERFORMANCE AND THEATRE

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** English Advanced, Drama.

**Additional selection criteria:** Audition and/or interview.

## POLITICS, PHILOSOPHY, ECONOMICS

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** English Advanced.

## PRE-MEDICINE, SCIENCE AND HEALTH

**Areas of study:** Anatomy, chemistry, human anatomy, human physiology.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

**Recommended studies:** Biology, Chemistry.

## PSYCHOLOGY

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Mathematics Advanced.

## PUBLIC HEALTH

**Areas of study:** Public health.

**Assumed knowledge:** Any 2 units of English.

## SCIENCE

**Areas of study:** Atmospheric science, biomolecular physics, cell and molecular biology, chemistry, ecology and conservation biology, environment, geology, human geography, land and heritage management, materials, mathematics and physics, nuclear science and technology, physical geography, physics.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science.

*For atmospheric science, biomolecular physics, materials, mathematics and physics, nuclear science and technology, physics:* Mathematics Advanced, any 2 units of English.



**Recommended studies:** Any 4 units of science. *For materials, mathematics and physics, nuclear science and technology, physics:* Chemistry, Mathematics Extension 1, Physics.

#### Advanced

**Areas of study:** Atmospheric science, biomolecular physics, human geography, land and heritage management, physics.

**Assumed knowledge:** Mathematics Advanced, any 2 units of science. *For atmospheric science, biomolecular physics and physics:* Mathematics Advanced, any 2 units of English.

**Recommended studies:** Any 4 units of science. *For atmospheric science, biomolecular physics and physics:* Chemistry, Mathematics Extension 1, Physics.

#### Science Education – see Teaching

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### SCIENCE (DIP)\*

**Areas of study:** Biodiversity and environment, biological sciences and climate change, chemistry, earth sciences, mathematics.

**Assumed knowledge:** Any 2 units of mathematics.

*\*subject to final approval*

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### SOCIAL SCIENCE

**Areas of study:** Community culture and environment (Shoalhaven campus only), criminology, health promotion, human geography, Indigenous studies, public health, social marketing, social policy, sociology.

**Assumed knowledge:** Any 2 units of English.

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### SOCIAL SCIENCE (DIP)

**Areas of study:** Academic skills for social science, economics and society, human geography.

**Assumed knowledge:** Any 2 units of English.

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### SOCIAL WORK

**Areas of study:** Social work.

**Assumed knowledge:** Any 2 units of English.

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### SUSTAINABLE COMMUNITIES

**Areas of study:** Human geography, social and environmental sustainability, social policy.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Geography.

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### TEACHING

#### Early Years (including Dean's Scholar)

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

#### Health and Physical Education (including Dean's Scholar)

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of science or Personal Development, Health and Physical Education (PDHPE).

#### Mathematics Education (including Dean's Scholar)

**Course prerequisite:** Mathematics Advanced.

**Assumed knowledge:** Mathematics Advanced (Band 4), any 2 units of English.

**Recommended studies:** Mathematics Extension 1.

#### Primary Education (including Dean's Scholar)

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Any 2 units of mathematics.

#### Science Education (including Dean's Scholar)

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Any 2 units of mathematics, any 4 units of science.

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### DOUBLE DEGREES

If you intend to undertake double degrees check the prerequisites, assumed knowledge and recommended studies for both degrees.

Contact the University for further details.

- Arts/Commerce
- Arts/Economics and Finance
- Arts/International Studies
- Arts/International Studies (Dean's Scholar)
- Arts in Western Civilisation/International Studies
- Arts in Western Civilisation/Politics, Philosophy and Economics
- Arts in Western Civilisation/Creative Arts
- Business/Information Technology
- Communication and Media/Arts
- Communication and Media/Arts (Dean's Scholar)
- Communication and Media/Commerce
- Communication and Media/Computer Science
- Communication and Media/Economics and Finance
- Communication and Media/International Studies
- Communication and Media/International Studies (Dean's Scholar)
- Communication and Media/Science
- Computer Science/Science
- Creative Arts/Arts
- Creative Arts/Commerce
- Creative Arts/Communication and Media
- Creative Arts/Computer Science
- Creative Arts/International Studies
- Creative Arts/Journalism
- Creative Arts/Science
- Engineering/Arts
- Engineering/Commerce
- Engineering/Computer Science
- Engineering/Exercise Science
- Engineering/Mathematics
- Engineering/Science
- International Studies/Commerce
- International Studies/Economics and Finance
- Journalism/Arts
- Journalism/Commerce
- Journalism/Communication and Media
- Journalism/Engineering (Honours)
- Journalism/International Studies
- Journalism/Science
- Mathematics/Computer Science
- Psychological Science/Commerce
- Psychological Science/Social Science
- Psychology/Commerce
- Science/Arts
- Science/Commerce
- Science/Mathematics

Double degrees in Law are also offered. Refer to main entry for details.

## UNSW SYDNEY

unsw.edu.au

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### Get in touch

#### Kensington and Paddington campuses

Future Students Office  
UNSW Sydney NSW 2052

#### In person

Future Students Office, The Red Centre (H13)  
UNSW Sydney, Kensington NSW 2033

**telephone:** 1300 UNI NSW (1300 864 679)

**website:** unsw.edu.au/futurestudents

**email:** futurestudents@unsw.edu.au

#### UNSW Canberra at ADFA

Student Recruitment and Outreach  
UNSW Canberra at Australian Defence Force Academy  
PO Box 7916, Canberra BC ACT 2610

#### In person

Student Recruitment and Outreach  
UNSW Canberra at Australian Defence Force Academy  
Level 1, Building 1, Northcott Drive, Campbell ACT 2600

**telephone:** (02) 6268 8201

**website:** unsw.adfa.edu.au/study

**email:** student.recruitment@adfa.edu.au

### READ THIS FIRST

- UNSW's HSC Plus recognises performance in relevant HSC subjects. For further information, visit [unsw.edu.au/hscplus](http://unsw.edu.au/hscplus).
- For HSC courses listed as assumed knowledge, students are expected to have a level of performance at Band 4 or higher.
- Mathematics Standard 2 and Investigating Science are not regarded as adequate preparation for university studies in business, engineering and science. However, these courses can be included in the calculation of the ATAR.
- Students who do not have the level of assumed knowledge specified may find themselves ill-prepared for first-year subjects and therefore be placed at a considerable disadvantage. Chemistry and Physics bridging courses are offered at the Kensington campus before the start of semester 1 each year for students who have not included one or both in their HSC program. A mathematics bridging course is also offered for those students wishing to upgrade their HSC mathematics knowledge to the level of Mathematics Extension 1.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### ACTUARIAL STUDIES

**Areas of study:** Accounting, actuarial risk management and analytics, actuarial studies, business economics, business law, business strategy and economic management, finance, financial economics, human resource management, information systems, international business, management, marketing, mathematics, quantitative data science, real estate studies, statistics, taxation.

**Assumed knowledge:** Mathematics Extension 1.

**Recommended studies:** English Advanced, Mathematics Extension 2.

### ARCHITECTURAL STUDIES

**Recommended studies:** Ancient History, Design and Technology, English Advanced, Modern History, Visual Arts.

### ARTS

**Areas of study:** Art history and theory, Asian studies, Australian studies, Chinese studies, creative writing, criminology, development studies, economics, English, environmental humanities, European studies, film studies, French studies, geographical studies, German studies, history, human resources management, Indigenous studies, Indonesian studies, Italian studies, international business, Japanese studies, Korean studies, linguistics, media, culture and technology, modern Greek studies, music studies, philosophy, politics and international relations, psychology, sociology and anthropology, Spanish and Latin American studies, studies in psychology, theatre and performance studies, women's and gender studies

**Recommended studies:** English Advanced.

### ARTS AND BUSINESS

**Areas of study:** Accounting, art history and theory, Asian studies, Australian studies, business, Chinese studies, creative writing, criminology, culture and technology, development studies, English, environmental humanities, European studies, film studies, French studies, geographical studies, German studies, history, Indigenous studies, Indonesian studies, Italian studies, Japanese studies, Korean studies, law, linguistics, management, marketing, media, microeconomics, modern Greek studies, music studies, philosophy, politics and international relations, psychology, sociology and anthropology, Spanish and Latin American studies, theatre and performance studies, women's and gender studies.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** English Advanced.

### AVIATION

#### Flying

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Physics.

**Additional selection criteria:** Medical examination, internal application, interview.

#### Management

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Physics.

### CITY PLANNING

**Recommended studies:** Design and Technology, Economics, English Advanced, Geography, Legal Studies, Society and Culture.

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## COMMERCE

**Areas of study:** Accounting, business economics, business law, business strategy and economic management, finance, financial economics, human resource management, information systems, international business, management, marketing, real estate studies, taxation.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** English Advanced, Mathematics Extension 1.

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## COMMERCE (INTERNATIONAL)

**Areas of study:** Accounting, Asian studies, business economics, business law, business strategy and economic management, Chinese studies, development studies, European studies, finance, financial economics, French studies, German studies, history, human resource management, information systems, international business, international relations, Japanese studies, Korean studies, management, marketing, politics, real estate studies, Spanish and Latin American studies, taxation.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** English Advanced, Mathematics Extension 1.

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## COMPUTATIONAL DESIGN

**Recommended studies:** Design and Technology, Information Processes and Technology, Mathematics Advanced, Software Design and Development, Visual Arts.

---

## COMPUTER SCIENCE

**Assumed knowledge:** Mathematics Extension 1.

**Recommended studies:** Engineering Studies, Mathematics Extension 2, Information Processes and Technology, Physics, Software Design and Development.

---

## CONSTRUCTION MANAGEMENT AND PROPERTY

**Recommended studies:** English Advanced, Mathematics Advanced.

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## CRIMINOLOGY AND CRIMINAL JUSTICE

**Areas of study:** Criminology, social research and policy.

**Recommended studies:** English Advanced.

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## DATA SCIENCE AND DECISIONS

**Areas of study:** Business data science, computational data science, quantitative data science.

**Assumed knowledge:** Mathematics Extension 1.

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## DESIGN

**Areas of study:** 3D visualisation, crafted objects, experience design, graphic design, interaction design, textile design.

**Assumed knowledge:** Visual Arts.

**Recommended studies:** Design and Technology, Industrial Technology, Textiles and Design.

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## ECONOMICS

**Areas of study:** Accounting, business law, econometrics, economics, finance, financial economics, human resource management, information systems, international business, management, marketing, real estate studies, taxation.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** English Advanced, Mathematics Extension 1.

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## EDUCATION

### Arts/Education (Secondary)

**Assumed knowledge:** Any 2 units of English (Band 5).

**Recommended studies:** English Advanced.

### Commerce/Education (Secondary)

**Assumed knowledge:** Mathematics Advanced, any 2 units of English (Band 5).

**Recommended studies:** English Advanced.

### Design/Education (Secondary)

**Assumed knowledge:** Visual Arts, any 2 units of English (Band 5).

**Recommended studies:** English Advanced.

### Economics/Education (Secondary)

**Assumed knowledge:** Mathematics Advanced, any 2 units of English (Band 5).

**Recommended studies:** English Advanced.

### Fine Arts/Education (Secondary)

**Assumed knowledge:** Visual Arts, any 2 units of English (Band 5).

**Recommended studies:** English Advanced.

### Media Arts/Education (Secondary)

**Assumed knowledge:** Any 2 units of English (Band 5).

**Recommended studies:** Visual Arts, English Advanced.

### Music/Education (Secondary)

**Assumed knowledge:** Any 2 units of English (Band 5) plus either (Grade 7 AMEB Performance (or equivalent) and Music 2) or (Grade 6 AMEB Musicianship (or equivalent)) or Music Extension.

**Recommended studies:** English Advanced.

**Additional selection criteria:** Audition.

### Science/Education (Secondary)

**Assumed knowledge:** Any 2 units of English (Band 5), Mathematics Advanced and Chemistry plus one of Biology or Earth and Environmental Science, Physics or Mathematics Extension 1 (depending on chosen area of study).

**Recommended studies:** English Advanced.

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## ENGINEERING

### Aerospace Engineering

### Biomedical Engineering

### Civil Engineering

### Civil Engineering with Architecture

### Computer Engineering

### Electrical Engineering

### Environmental Engineering

### Mechanical and Manufacturing Engineering

### Mechanical Engineering

### Mechatronic Engineering

### Mining Engineering

### Petroleum Engineering

### Photovoltaics and Solar Energy Engineering

### Renewable Energy Engineering

### Surveying

### Telecommunications

**Assumed knowledge:** Mathematics Extension 1, Physics.

**Recommended studies:** Biology, Chemistry, Engineering Studies, Mathematics Extension 2, Information Processes and Technology, Software Design and Development.

### Bioinformatics Engineering

**Assumed knowledge:** Chemistry, Mathematics Extension 1.

**Recommended studies:** Biology, Engineering Studies, Mathematics Extension 2, Information Processes and Technology, Software Design and Development.

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### Chemical Engineering

**Assumed knowledge:** Chemistry, Mathematics Extension 1, Physics.

**Recommended studies:** Biology, Engineering Studies, Mathematics Extension 2, Information Processes and Technology, Software Design and Development.

### Chemical Product Engineering

**Assumed knowledge:** Chemistry, Mathematics Extension 1, Physics

**Recommended studies:** Biology, Engineering Studies, Mathematics Extension 2, Information Processes and Technology, Software Design and Development.

### Software Engineering

**Assumed knowledge:** Mathematics Extension 1.

**Recommended studies:** Biology, Chemistry, Engineering Studies, Mathematics Extension 2, Information Processes and Technology, Software Design and Development.

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### EXERCISE PHYSIOLOGY

**Assumed knowledge:** Chemistry, Mathematics Advanced.

**Recommended studies:** Biology, Physics, Personal Development, Health and Physical Education (PDHPE).

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### FINE ARTS

**Areas of study:** Drawing, moving image, painting, photography, printmaking, sculpture, art theory.

**Assumed knowledge:** Visual Arts.

**Recommended studies:** One or more of English Advanced, Modern History.

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### FOOD SCIENCE

**Assumed knowledge:** Chemistry, Mathematics Extension 1, Physics.

**Recommended studies:** Biology.

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### INDUSTRIAL DESIGN

**Recommended studies:** Design and Technology, Visual Arts, Mathematics Advanced.

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### INFORMATION SYSTEMS

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** English Advanced, Mathematics Extension 1.

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### INTERIOR ARCHITECTURE

**Recommended studies:** Design and Technology, English Advanced, Textiles and Design, Visual Arts.

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### INTERNATIONAL PUBLIC HEALTH

**Assumed knowledge:** English Standard.

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### INTERNATIONAL STUDIES

**Areas of study:** Asian studies, Chinese studies, development studies, environmental humanities, European studies, French studies, German studies, international business, international studies, Japanese studies, Korean studies, politics and international relations, sociology and anthropology, Spanish and Latin American studies.

Language study: Chinese, French, German, Greek, Indonesian, Italian, Japanese, Korean and Spanish.

**Recommended studies:** English Advanced.

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### LANDSCAPE ARCHITECTURE

**Recommended studies:** Geography, Visual Arts, English Advanced, Design and Technology.

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### LAW (DOUBLE)

- Actuarial Studies/Law
- Advanced Mathematics (Hons)/Law
- Advanced Science (Hons)/Law
- Arts and Business/Law
- Arts/Law
- City Planning (Hons)/Law
- Commerce/Law
- Computer Science/Law
- Criminology and Criminal Justice/Law
- Data Science and Decisions/Law
- Economics/Law
- Engineering (Hons)/Law
- Fine Arts/Law
- International Studies/Law
- Media (Communication and Journalism)/Law
- Media (PR and Advertising)/Law
- Media (Screen and Sound Production)/Law
- Medicinal Chemistry (Hons)/Law
- Music/Law
- Politics, Philosophy and Economics/Law
- Psychological Science/Law
- Psychology (Hons)/Law
- Science/Law
- Science and Business/Law
- Social Research and Policy/Law
- Social Work (Hons)/Law

**Assumed knowledge:** For Law: None. For the other area of study:

Refer to the relevant entry.

**Recommended studies:** For Law: None. For the other area of study:

Refer to the relevant entry.

**Additional selection criteria:** Law Admission Test (LAT) visit [law.unsw.edu.au/lat](http://law.unsw.edu.au/lat) for more details.

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### MEDIA

Communication and Journalism

Public Relations and Advertising

Screen and Sound Production

**Recommended studies:** English Advanced.

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### MEDIA ARTS

**Areas of study:** Animation, digital media, interactive media, moving image, sound.

**Recommended studies:** Design and Technology, Industrial Technology (Multimedia Technologies), Visual Arts.

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### MEDICAL SCIENCE

**Areas of study:** Human anatomy, human pathology, molecular biology, molecular genetics, medical microbiology, neurobiology, medical pharmacology, medical physiology.

**Assumed knowledge:** Mathematics Advanced, Chemistry.

**Recommended studies:** Biology, Mathematics Extension 1, Physics.

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### MEDICINE

**Assumed knowledge:** English Standard.

**Recommended studies:** Chemistry, Biology.

**Additional selection criteria:** University Clinical Aptitude Test (UCAT), individual interview.



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## MUSIC

**Areas of study:** Music creative practice, musicology, music pedagogy, sonic arts.

**Assumed knowledge:** Either (Grade 7 AMEB Performance (or equivalent) and Music 2) or Grade 6 AMEB Musicianship (or equivalent) or Music Extension.

**Recommended studies:** English Advanced.

**Additional selection criteria:** Audition.

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## POLITICS, PHILOSOPHY AND ECONOMICS

**Areas of study:** Economics, philosophy, and politics and international relations.

**Assumed knowledge:** Mathematics Advanced.

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## PSYCHOLOGICAL SCIENCE

**Areas of study:** Criminology, human resource management, linguistics, management, marketing, neuroscience, philosophy, psychology, vision science.

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Biology, Chemistry, English Advanced, Physics.

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## PSYCHOLOGY (HONS)

**Assumed knowledge:** Mathematics Advanced.

**Recommended studies:** Biology, Chemistry, English Advanced, Physics.

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## SCIENCE

### Advanced Mathematics (Hons)

**Areas of study:** Advanced statistics, applied mathematics, pure mathematics.

**Assumed knowledge:** Mathematics Extension 1.

**Recommended studies:** Mathematics Extension 2.

### Advanced Science (Hons)

**Areas of study:** Advanced physical oceanography, advanced physics, anatomy, bioinformatics, biology, biotechnology, chemistry, climate dynamics, climate systems science, earth science, ecology, genetics, geography, marine and coastal science, materials science, mathematics, microbiology, molecular and cell biology, neuroscience, pathology, pharmacology, physiology, psychology, statistics, vision science.

**Assumed knowledge:** Chemistry, Mathematics Advanced or Mathematics Extension 1 (depending on chosen area of study) plus one or more of Biology, Earth and Environmental Science, Physics.

### Biotechnology (Hons)

**Assumed knowledge:** Chemistry, Mathematics Advanced.

**Recommended studies:** Biology.

### Environmental Management

**Areas of study:** Biology, earth science, ecology, environmental chemistry, geography, marine and coastal science.

**Assumed knowledge:** Mathematics Advanced, Biology plus Chemistry (depending on area of study).

**Recommended studies:** Biology, Earth and Environmental Science, Physics.

### Life Sciences

**Areas of study:** Anatomy, biological chemistry, biology, biotechnology, ecology, genetics, marine and coastal science, microbiology, molecular and cell biology, pathology, pharmacology, physiology, psychology.

**Assumed knowledge:** Mathematics Advanced plus Biology or Chemistry.

### Materials Science and Engineering (Hons)

**Areas of study:** Ceramic engineering, functional materials, materials engineering, physical metallurgy, process metallurgy.

**Assumed knowledge:** Mathematics Extension 1, Physics.

**Recommended studies:** Mathematics Extension 2, Chemistry and Engineering Studies.

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### Medicinal Chemistry (Hons)

**Assumed knowledge:** Mathematics Advanced, Chemistry.

**Recommended studies:** Biology, Physics.

### Science

**Areas of study:** Anatomy, bioinformatics, biology, biotechnology, chemistry, earth science, ecology, food science, genetics, geography, marine and coastal science, materials science, mathematics, microbiology, molecular and cell biology, neuroscience, pathology, pharmacology, physical oceanography, physics, physiology, psychology, statistics, vision science.

**Assumed knowledge:** Chemistry, Mathematics Advanced or Mathematics Extension 1 (depending on chosen area of study) plus one or more of Biology, Earth and Environmental Science, Physics.

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## SOCIAL RESEARCH AND POLICY

**Areas of study:** Development studies, economics, environmental humanities, human resource management, Indigenous studies, international business, marketing, media, politics and international relations, sociology and anthropology.

**Recommended studies:** English Advanced.

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## SOCIAL WORK

**Recommended studies:** English Advanced.

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## VISION SCIENCE

**Areas of study:** Optometry, vision science.

**Assumed knowledge:** Chemistry, English Advanced, Mathematics Advanced, Physics.

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## DOUBLE DEGREES

If you intend to undertake double degrees check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the University for further details.

- Actuarial Studies/Advanced Mathematics (Hons)
- Actuarial Studies/Commerce
- Actuarial Studies/Economics
- Actuarial Studies/Science
- Advanced Mathematics (Hons)/Arts
- Advanced Mathematics (Hons)/Computer Science
- Advanced Mathematics (Hons)/Engineering (Hons)
- Advanced Science (Hons)/Arts
- Advanced Science (Hons)/Computer Science
- Advanced Science (Hons)/Engineering (Hons)
- Advanced Science (Hons)/Fine Arts
- Advanced Science (Hons)/Social Research and Policy
- Commerce/Advanced Mathematics (Hons)
- Commerce/Advanced Science (Hons)
- Commerce/Arts
- Commerce/Aviation (Management)
- Commerce/Computer Science
- Commerce/Design
- Commerce/Economics
- Commerce/Fine Arts
- Commerce/Information Systems
- Commerce/Media (PR and Advertising)
- Commerce/Science
- Computer Science/Arts
- Computer Science/Media Arts
- Design/Media (PR and Advertising)
- Economics/Advanced Mathematics (Hons)
- Economics/Advanced Science (Hons)
- Economics/Arts
- Economics/Science
- Engineering (Hons)/Arts
- Engineering (Hons)/Biomedical Engineering
- Engineering (Hons)/Commerce

- Engineering (Hons)/Computer Science
- Engineering (Hons)/Engineering
- Engineering (Hons)/Science
- Environmental Management/Arts
- Fine Arts/Arts
- International Studies/Media (Communications and Journalism)
- International Studies/Media (PR and Advertising)
- International Studies/Media (Screen and Sound)Materials
- Science and Engineering (Hons)/Biomedical Engineering
- Materials Science and Engineering (Hons)/Commerce
- Materials Science and Engineering (Hons)/Engineering Science (Chemical Engineering)
- Media/International Studies
- Medicine/Arts
- Music/Advanced Science (Hons)
- Music/Arts
- Music/Commerce
- Music/Engineering (Hons)
- Music/Media (Communications and Journalism)
- Music/Media (PR and Advertising)
- Music/Media (Screen and Sound)
- Music/Science
- Science/Arts
- Science/Computer Science
- Science/Fine Arts
- Science/Social Research and Policy
- Social Work (Hons)/Arts
- Social Work (Hons)/Criminology and Criminal Justice
- Social Work (Hons)/Social Research and Policy
- Vision Science/Clinical Optometry

Double degrees in Law and Education are also offered. Refer to the main subject area for details.

## UNSW CANBERRA AT THE AUSTRALIAN DEFENCE FORCE ACADEMY (ADFA)

### ARTS

**Areas of study:** Business, English and media studies, geography, history, Indonesian studies, international and political studies.

**Assumed knowledge:** Any 2 units of English (Band 5).

**Offered to:** ADFA trainee officers.

**Additional selection criteria:** ADFA trainee officers: Selection process with Defence Force Recruiting for entry to the Australian Defence Force.

### BUSINESS

**Assumed knowledge:** Any 2 units of English (Band 5).

**Offered to:** ADFA trainee officers.

**Additional selection criteria:** ADFA trainee officers: Selection process with Defence Force Recruiting for entry to the Australian Defence Force.

### COMPUTING AND CYBER SECURITY

**Assumed knowledge:** Mathematics Advanced.

**Offered to:** ADFA trainee officers, DCUS students.

**Additional selection criteria:** ADFA trainee officers: Selection process with Defence Force Recruiting for entry to the Australian Defence Force.

*Defence Civilian Undergraduate Sponsorship (DCUS) students:* Selection process with the Department of Defence.

### ENGINEERING

#### Aeronautical Engineering

#### Civil Engineering

#### Electrical Engineering

#### Mechanical Engineering

**Assumed knowledge:** Mathematics Advanced, Physics.

**Offered to:** ADFA trainee officers, Non-Defence students, DCUS students.

**Additional selection criteria:** ADFA trainee officers: Selection process with Defence Force Recruiting for entry to the Australian Defence Force

*Non-Defence students:* Submit a UNSW Canberra application.

*Defence Civilian Undergraduate Sponsorship (DCUS) students:* Selection process with the Department of Science.

### SCIENCE

**Areas of study:** Aviation, chemistry, computer science, geography, mathematics, oceanography, physics

**Assumed knowledge:** Mathematics Advanced.

**Additional selection criteria:** ADFA trainee officers: Selection process with Defence Force Recruiting for entry to the Australian Defence Force.

### TECHNOLOGY

#### Aeronautical Engineering

#### Aviation

**Assumed knowledge:** Mathematics Advanced, Physics.

**Additional selection criteria:** ADFA trainee officers: Selection process with Defence Force Recruiting for entry to the Australian Defence Force.

### DOUBLE DEGREES

If you intend to undertake double degrees check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the University for further details. The below program is only available to

Non-Defence students.

- Engineering (Hons)/Science.



## GET IN TOUCH

Course Information Centre  
Western Sydney University  
Locked Bag 1797, Penrith NSW 2751

**telephone:** 1300 897 669  
**email:** study@westernsydney.edu.au

## In person

Campus locations are: Bankstown, Campbelltown, Hawkesbury, Liverpool City, Nirimba (Blacktown), Parramatta, Parramatta City, Penrith, Sydney City, Sydney Olympic Park

## READ THIS FIRST

- When you read 'any 2 units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science or Investigating Science.

Main headings indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets. Subheadings are specialisations within the course.

### ACCOUNTING

**Areas of study:** Accounting, taxation and financial planning.

**Assumed knowledge:** Any 2 units of mathematics, any 2 units of English.

Students unable to demonstrate sufficient levels of achievement in mathematics will be required to use one of the elective units to increase their mathematical aptitude. This will not lengthen the period of study.

### ANTHROPOLOGY

**Assumed knowledge:** Any 2 units of English.

### ARCHITECTURE

**Assumed knowledge:** English Standard (or higher), and Science and/or Mathematics Advanced (Band 4 or above).

### ARTS

**Areas of study:** Anthropology, Arabic, Chinese, creative writing, criminology and criminal justice, cultural and social analysis, economy and markets, English, geography and urban studies, global business, heritage and tourism, history and political thought, Indigenous Australian studies, Indonesian, innovation and change, international English, international relations and Asian studies, interpreting and translation, Islamic studies, Japanese, linguistics, musicology, music performance, organisations and work, peace and development studies, philosophy, psychological studies, sociology.

**Assumed knowledge:** Any 2 units of English (Band 4).

**Recommended studies:** English Standard.

#### Interpreting and Translation

**Assumed knowledge:** Any 2 units of English. Applicants should be a native or near native speaker of Arabic, Chinese, Japanese or Spanish.

#### Languages and Linguistics

**Assumed knowledge:** Any 2 units of English.

#### Arts (Pathway to Teaching Birth-5/Birth-12)

**Assumed knowledge:** Any 2 units of English (Band 5), any 2 units of mathematics (Band 4).

**Recommended studies:** English Standard.

#### Arts (Pathway to Teaching Primary)

**Assumed knowledge:** Any 2 units of English (Band 5), any 2 units of mathematics (Band 4).

**Recommended studies:** English Standard.

### Arts (Pathway to Teaching Secondary)

**Assumed knowledge:** Any 2 units of English (Band 5), any 2 units of mathematics (Band 4).

**Recommended studies:** English Standard.

Requirements for teaching courses are currently under review. Check with the University for specific requirements.

### ARTS (DIP)

**Assumed knowledge:** Any 2 units of English.

### BUILDING DESIGN MANAGEMENT

#### BUILDING DESIGN MANAGEMENT (DIP)

**Assumed knowledge:** Any 2 units of English.

### BUSINESS

Accounting

Applied Finance

Economics

Hospitality Management

Human Resource Management

International Business

Management

Marketing

Property

Sport Management

**Assumed knowledge:** Any 2 units of mathematics, any 2 units of English. Students unable to demonstrate sufficient levels of achievement in mathematics will be required to use one of the elective units to increase their mathematical aptitude. This will not lengthen the period of study.

### BUSINESS (ADVANCED BUSINESS LEADERSHIP)

For majors see BUSINESS.

### BUSINESS (DIP)

### BUSINESS (PATHWAY TO TEACHING SECONDARY)

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**COMMUNICATION****COMMUNICATION (DIP)**

**Areas of study:** Advertising, journalism, media arts production, public relations.

**Assumed knowledge:** Any 2 units of English.

**Screen Media (Arts and Production)**

**Assumed knowledge:** Any 2 units of English.

**COMMUNITY AND SOCIAL DEVELOPMENT**

Available only to Aboriginal and Torres Strait Islander students.

**Additional selection criteria:** Entry is via the Aboriginal and Torres Strait Islander Pathway Program. Check with the University for more details.

**COMMUNITY WELFARE**

**Recommended studies:** Any 2 units of English.

**COMPUTER SCIENCE****COMPUTER SCIENCE (ADVANCED)**

**Areas of study:** Cyber security, networked systems, systems programming and artificial intelligence.

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**CONSTRUCTION MANAGEMENT (HONOURS)****CONSTRUCTION MANAGEMENT (DIP)****CONSTRUCTION TECHNOLOGY**

**Assumed knowledge:** Any 2 units of English.

**CREATIVE INDUSTRIES**

**Areas of study:** Advertising, creative writing, cultural and social analysis, digital cultures, English, enterprise innovation, graphic design, journalism, law and the creative industries, media arts production, music, public relations.

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Design and Technology, Visual Arts.

**CRIMINAL AND COMMUNITY JUSTICE****CRIMINAL AND COMMUNITY JUSTICE (DIP)**

**Assumed knowledge:** English Standard.

**CRIMINOLOGY**

**Assumed knowledge:** English Standard.

**CYBER SECURITY AND BEHAVIOUR**

**Areas of study:** Criminology, cybercrime, data informatics, psychology, systems security.

**Assumed knowledge:** English Standard.

**Recommended studies:** Mathematics Advanced, Information Processes and Technology, any 2 units of science.

**DESIGN****DESIGN (DIP)****Visual Communication**

**Areas of study:** Data visualisation, design history, graphic design, illustration, interactive, motion design, photomedia, research methods, visual storytelling, web- and time-based design.

**Assumed knowledge:** One or more of Design and Technology, Visual Arts.

**Design and Technology**

**Assumed knowledge:** Any 2 units of English plus at least two of Design and Technology, Mathematics Advanced, Physics, Visual Arts.

**EDUCATION****Education (Primary) – Aboriginal and Torres Strait Islander Education**

Available only to Aboriginal and Torres Strait Islander students.

**Additional selection criteria:** Entry is via the Aboriginal and Torres Strait Islander Pathway Program. Check with the University for more details.

**Arts (Pathway to Teaching Birth–5/Birth–12)**

**Assumed knowledge:** Any 2 units of English (Band 5), any 2 units of mathematics (Band 4).

**Recommended studies:** English Standard.

**Arts (Pathway to Teaching Primary)**

**Assumed knowledge:** Any 2 units of English (Band 5), any 2 units of mathematics (Band 4).

**Recommended studies:** English Standard.

**Arts (Pathway to Teaching Secondary)**

**Assumed knowledge:** Any 2 units of English (Band 5), any 2 units of mathematics (Band 4).

**Recommended studies:** English Standard.

Requirements for teaching courses are currently under review. Check with the University for specific requirements.

**Business (Pathway to Teaching Secondary)**

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Graphic Design (Pathway to Teaching Secondary)**

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.

**Recommended studies:** Design and Technology, Visual Arts, Industrial Technology.

**Health and Physical Education (Pathway to Teaching Secondary)**

**Assumed knowledge:** Any 2 units of English (Band 4).

**Recommended studies:** Personal Development, Health and Physical Education (PDHPE) or Community and Family Studies plus English Standard or equivalent.

**Science (Pathway to Teaching Primary/Secondary)**

**Assumed knowledge:** Any 2 units of English, any 2 units of science (any science), any 2 units of mathematics.

**ENGINEERING (HONOURS)****ENGINEERING (ADVANCED) (HONOURS)**

**Areas of study:** Civil, construction, electrical, mechanical, robotics and mechatronics.

**Assumed knowledge:** Mathematics Advanced (Band 5 or higher), any 2 units of science, any 2 units of English, Physics.

**ENGINEERING (DIP)**

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics and physics.

**ENGINEERING SCIENCE**

**Assumed knowledge:** Mathematics Advanced (Band 4 or higher), any 2 units of science, any 2 units of English.

**Recommended studies:** Physics, Mathematics Advanced.

**ENTREPRENEURSHIP (GAMES DESIGN AND SIMULATION)**

**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

**Recommended studies:** Information Processes and Technology or Software Design and Development.



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## GEOGRAPHY & PLANNING (PATHWAY TO MASTER OF URBAN MANAGEMENT AND PLANNING)

**Assumed knowledge:** English Standard.  
**Recommended studies:** Any 2 units of English, Geography.

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## GRAPHIC DESIGN (PATHWAY TO TEACHING SECONDARY)

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.  
**Recommended studies:** Design and Technology, Visual Arts, Industrial Technology.

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## HEALTH SCIENCE

Health Promotion  
Health Services Management  
Therapeutic Recreation  
Public Health

**Assumed knowledge:** Any 2 units of English.

### Health and Physical Education

**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Personal Development, Health and Physical Education (PDHPE) or Community and Family Studies.

### Health and Physical Education (Pathway to Teaching Secondary)

**Assumed knowledge:** Any 2 units of English (Band 4).  
**Recommended studies:** Personal Development, Health and Physical Education (PDHPE) or Community and Family Studies plus English Standard.

### Sport and Exercise Science

**Assumed knowledge:** Any 2 units of English.  
**Recommended studies:** Any 4 units of science and/or mathematics. Personal Development, Health and Physical Education (PDHPE) can be counted as a science unit for this course.

### Health Science (Dip)

**Areas of study:** Health and physical education, health promotion, health services management, physical development, therapeutic recreation.  
**Assumed knowledge:** Any 2 units of English.

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## HUMANITARIAN AND DEVELOPMENT STUDIES

**Assumed knowledge:** English Standard.

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## INDUSTRIAL DESIGN

### INDUSTRIAL DESIGN (HONOURS)

**Assumed knowledge:** Design and Technology, any 2 units of English, plus at least 2 units of Business Studies, Mathematics Advanced, Physics, Visual Arts.

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## INFORMATION AND COMMUNICATIONS TECHNOLOGY

### INFORMATION AND COMMUNICATIONS TECHNOLOGY (ADVANCED)

### INFORMATION AND COMMUNICATIONS TECHNOLOGY (DIP)

### INFORMATION AND COMMUNICATIONS TECHNOLOGY (HEALTH

### INFORMATION MANAGEMENT)

**Areas of study:** Cyber security, entertainment computing, health informatics, mathematics, mobile computing, networking.  
**Assumed knowledge:** Mathematics Advanced, any 2 units of English.

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## INFORMATION SYSTEMS

### INFORMATION SYSTEMS (ADVANCED)

**Areas of study:** Big data, entertainment computing, health informatics, interactive analytics, mathematics, mobile computing, networking, social media analytics.  
**Assumed knowledge:** Any 2 units of mathematics, any 2 units of English.

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## INTERNATIONAL STUDIES

**Assumed knowledge:** Any 2 units of English (Band 4).  
**Recommended studies:** English Standard.

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## LAWS

### LAWS (COMBINED)

- Accounting/Laws
- Arts/Laws
- Business /Laws
- Business (Advanced Business Leadership)/Laws
- Communication/Laws
- Construction Management Studies/Laws
- Criminal and Community Justice/Laws
- Criminology/Laws
- Information and Communications Technology/Laws
- Information Systems (Advanced)/Laws
- Information Systems/Laws
- International Studies/Laws
- Science/Laws
- Social Science/Laws

**Assumed knowledge:** *For Laws:* Any 2 units of English or equivalent.  
*For the other area of study:* Refer to the relevant entry.

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## MEDICAL SCIENCE

### ADVANCED MEDICAL SCIENCE

#### Anatomy and Physiology

#### Biomedical Science

#### Medicinal Chemistry

**Assumed knowledge:** Any 2 units of English, any 2 units of science, any 2 units of mathematics.  
**Recommended studies:** At least two of Biology, Chemistry, Physics, Mathematics Advanced.

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### MEDICAL SCIENCE (FORENSIC MORTUARY PRACTICE)

**Assumed knowledge:** Any 2 units of English, any 2 units of science, any 2 units of mathematics.  
**Recommended studies:** At least two of Biology, Chemistry, Physics, Mathematics Advanced.

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## MEDICINE

**Recommended studies:** Chemistry.  
**Additional selection criteria:** University Clinical Aptitude Test (UCAT ANZ) and interview performance.

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## MIDWIFERY

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics, any 2 units of science.  
**Additional selection criteria:** Interview.

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## MUSIC

**Additional selection criteria:** Audition, interview, or AMEB (or equivalent) 6th grade performance and 4th grade theory, or TAFE diploma or advanced diploma.

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## NURSING

### NURSING (ADVANCED)

**Assumed knowledge:** Any 2 units of English, any 2 units of mathematics, any 2 units of science.

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**OCCUPATIONAL THERAPY****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Physics, Chemistry plus Biology and/or Personal Development, Health and Physical Education (PDHPE).**PARAMEDICINE****Assumed knowledge:** Any 2 units of English, Mathematics Advanced.**Recommended studies:** Biology or Personal Development, Health and Physical Education (PDHPE).**PHYSIOTHERAPY****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Biology.**PLANNING****Pathway to Master of Urban Management and Planning****Recommended studies:** Any 2 units of English, Geography.**PODIATRIC MEDICINE****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Any 2 units of mathematics, Physics, Biology.**POLICING****POLICING (LEADERSHIP PROGRAM)****Assumed knowledge:** Any 2 units of English.**PSYCHOLOGY (HONOURS)****Assumed knowledge:** English Standard**Recommended studies:** Mathematics Advanced, any 2 units of science.**SCIENCE****ADVANCED SCIENCE****Assumed knowledge:** Any 2 units of English, any 2 units of science, any 2 units of mathematics.**Animal Science****Recommended studies:** At least one of Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography.**Applied Physics****Recommended studies:** Chemistry, Mathematics Advanced and/or Physics.**Biology****Recommended studies:** At least one of Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography.**Chemistry****Recommended studies:** Chemistry, Mathematics Advanced and/or Physics.**Data Science****Recommended studies:** Chemistry, Mathematics Advanced and/or Physics.**Ecology****Recommended studies:** Biology, Chemistry, Earth and Environmental Science.**Environmental Futures****Recommended studies:** Geography, any 2 units of science.**Environmental Health****Recommended studies:** Any 2 units of science.**Forensic Biology****Recommended studies:** Mathematics Advanced, Biology or Chemistry.**Forensic Chemistry****Recommended studies:** Mathematics Advanced, Biology or Chemistry.**Forensic Science****Recommended studies:** Mathematics Advanced, Biology or Chemistry.**Mathematics****Recommended studies:** Mathematics Extension 1.**Microbiology****Recommended studies:** Biology or Chemistry or Physics.**Nutrition and Food Science****Recommended studies:** Biology or Chemistry, any 2 units of mathematics.**Science (Pathway to Teaching Primary/Secondary)***Note: There are 13 different majors attached to the Teaching pathway. Refer to the University website for more details.***Zoology****Recommended studies:** At least one of Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography.**SCIENCE (DIP)****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Any 2 units of mathematics, any 2 units of science.**SOCIAL SCIENCE****SOCIAL SCIENCE (ADVANCED)****Areas of study:** Anthropology, child and community studies, criminology and criminal justice, geography and urban studies, heritage and tourism, peace and development studies, sociology.**Assumed knowledge:** Any 2 units of English.**Recommended studies:** English Standard.**SCIENCE, CRIMINOLOGY AND PSYCHOLOGICAL STUDIES****Assumed knowledge:** English Standard.**SOCIAL SCIENCE (DIP)****Assumed knowledge:** Any 2 units of English.**SOCIAL SCIENCE (POLICING) (DIP)****Recommended studies:** Any 2 units of English.**SOCIAL SCIENCE (PSYCHOLOGY)****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Mathematics Advanced, any 2 units of science.**SOCIAL WORK****Assumed knowledge:** Any 2 units of English.**SPEECH PATHOLOGY****Assumed knowledge:** Any 2 units of English.**SPORT DEVELOPMENT****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Personal Development, Health and Physical Education (PDHPE), Business Studies, Economics.**SUSTAINABLE AGRICULTURE AND FOOD SECURITY****Assumed knowledge:** Any 2 units of English, any 2 units of mathematics.**Recommended studies:** Biology, Chemistry, Agriculture, Geography.**TOURISM MANAGEMENT****Assumed knowledge:** Any 2 units of English.**Recommended studies:** Geography and/or Business studies.

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## TRADITIONAL CHINESE MEDICINE

**Assumed knowledge:** Any 2 units of English.

**Recommended studies:** Biology.

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## COMBINED/DOUBLE DEGREES

For combined/double degrees check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the University for further details.

- Arts/Business
- Arts/Creative Industries
- Arts/Social Science
- Communication/Business
- Communication/Creative Industries
- Communication/International Studies
- Criminal and Community Justice/Social Work
- Design/Creative Industries
- Engineering (Honours)/Business
- Information and Communications Technology/Arts
- Information and Communications Technology/Business
- Information and Communications Technology/Business (Accounting)
- Information Systems (Advanced)/Business
- Information Systems/Business
- International Studies/Business
- International Studies/Social Science
- Music/Creative Industries
- Science/Arts
- Science/Business
- Science/International Studies
- Science (Zoology)/Natural Science (Animal Science)

Combined/double degrees in Laws are also offered. Refer to main subject entry for details.

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## APPLIED LEADERSHIP AND CRITICAL THINKING

This degree can be taken in conjunction with any Western Sydney University bachelor degree listed in this booklet. It is not a standalone program.

**Assumed knowledge:** Any 2 units of English.

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## DATA SCIENCE

This degree can be taken in conjunction with any Western Sydney University bachelor degree listed in this booklet. It is not a standalone program.

**Assumed knowledge:** Any 2 units of mathematics.

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## ENTREPRENEURSHIP

This degree can be taken in conjunction with any Western Sydney University bachelor degree listed in this booklet. It is also a standalone program.

**Assumed knowledge:** Any 2 units of mathematics.

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## STEPS TO UNI FOR YEAR 10 STUDENTS

ISSN 1443-0231  
Published April 2019  
Printer: Blue Star Web, Silverwater NSW

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ACN 070 055 935 ABN 19 070 055 935

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## ABOUT THIS PUBLICATION

This booklet is for students in Year 10 in 2019 to help them decide which HSC courses to take in Years 11 and 12. It lists courses UAC's participating institutions will offer in 2022 with details of prerequisites, assumed knowledge, recommended studies and additional selection criteria.

## IMAGES

Kat Stanley Photography

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