STEPS TO UNI FOR YEAR 10 STUDENTS
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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 2021 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 2017-18, 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 (SRS)
– processes applications for Educational Access Schemes (EAS)
– processes applications for some Equity Scholarships (ES).

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 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 the student’s preferred degree or eligibility for Educational Access Schemes). They do not change your ATAR. These adjustments used to be referred to as ‘bonus points’.

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, or specialisation within a course, that may consist of a sequence of subjects/units in a single discipline. They are generally studied throughout the course as major areas of study or specialisations or sub-majors, or 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 specified 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 may 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.

Bonus points
(see Adjustment factors)

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), HSC English Extension 1, HSC 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.

Lowest ATARs/selection ranks
The ATARs or selection ranks required in order to be offered a place in a course. The lowest ATARs and selection ranks for courses in a particular year are only known after all semester 1 offers for that year are made.

The lowest ATAR does not take into account whether or not the applicant with that ATAR was offered a place as a result of adjustment factors being taken into consideration.

The lowest selection rank does take into account the impact of adjustment factors, such as equity or performance in an HSC course.

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.
ALL ABOUT 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, so here’s what it’s all about.

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.

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 will contribute to an ATAR.

ATAR courses
ATAR courses are developed by NESA, which conducts formal examinations that produce graded assessments. These Board Developed courses are the only courses that can be included in ATAR calculations.

Board Developed courses 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 2020 are listed in the tables on pages 40-41.

Other courses
There are other courses you can study as part of the HSC. 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 41.
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. It’s a number between 0.00 and 99.95 with increments of 0.05. The ATAR provides a measure of your overall academic achievement in relation to that of other students and helps universities rank applicants for selection into their courses.

The ATAR indicates your position relative to the students who started high school with you in Year 7 (in other words, your age group). So, an ATAR of 80.00 means that you are 20 per cent from the top of your Year 7 group, even though not everyone who started with you in Year 7 went on to achieve an ATAR.

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.

There are roughly 27,000 different patterns of study completed by students for the HSC. How can we compare? One word – scaling.

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.

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.

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.

The only way to maximise your ATAR is to:
- study hard
- do your best
- have a good balance between study and other activities.

As long as you have chosen the courses you are good at and do well in, you will have 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.

Assessment is continuous school-based assessment and courses are taught and assessed unit by unit. There are 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.

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

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<th>NSW HSC course</th>
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<td>Biology</td>
</tr>
<tr>
<td>Chemistry (Major)</td>
<td>Chemistry</td>
</tr>
<tr>
<td>English (Major)</td>
<td>English (Advanced)</td>
</tr>
<tr>
<td>English (Major/Minor)</td>
<td>HSC English Extension 1</td>
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<tr>
<td>English (Double Major)</td>
<td>HSC English Extension 2</td>
</tr>
<tr>
<td>Mathematical Methods (Major)</td>
<td>Mathematics (Advanced)</td>
</tr>
<tr>
<td>Specialist Mathematics (Major)</td>
<td>HSC Mathematics Extension 1</td>
</tr>
<tr>
<td>Specialist Mathematics (Double Major)</td>
<td>HSC Mathematics Extension 2</td>
</tr>
<tr>
<td>Music (Major)</td>
<td>Music 2</td>
</tr>
<tr>
<td>Physics (Major)</td>
<td>Physics</td>
</tr>
<tr>
<td>Art Production (Major), Creative Art (Major), Visual Arts (Major)</td>
<td>Visual Arts</td>
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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.

Admission criteria

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

- prerequisites
- course prerequisites
- subject prerequisites
- additional selection criteria.

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.

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.

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.

These are not admission criteria. 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 35.

INTERNATIONAL BACCALAUREATE

If you attempt the International Baccalaureate (IB) Diploma or Bilingual Diploma in Australia they are 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 check which NSW HSC courses are considered comparable to your IB courses.

You may need to know how your IB courses compare to NSW HSC courses to check that you meet any course prerequisites, assumed knowledge and recommended studies, and also if you’ll be eligible to have your selection rank adjusted for specific 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.
STEPS TO UNI FOR YEAR 10 STUDENTS

ATARs and selection ranks
UAC and institutions publish the ATARs and selection ranks required for entry to a course in the previous admissions year.

The lowest ATAR for a course is the lowest ATAR (without any adjustments) of an applicant to whom an offer of a place was made.

The lowest selection rank is the lowest combination of ATAR and adjustment factors of an applicant to whom an offer of a place was made.

The interaction of three factors determines the lowest ATAR/selection rank:
- the number of places available in the course
- the number of applicants for the course
- the quality of those applicants.

These three factors mean that the lowest ATARs/selection ranks can change from year to year and are not known before applicants are selected for a particular course in a particular year.

The lowest ATAR/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 and is higher than their ATAR.

These adjustments (which we used to refer to as ‘bonus points’) 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 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 search on UAC’s website and the My UAC app
- the UAC Guide
- 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.

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

What should I remember if I have to 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.

If I decide to drop a course at the end of Year 11, what should I consider?
The most important thing for Year 11 students to consider is whether they will still be eligible for an ATAR if they drop any courses. 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 many units of maths can be included in the calculation of the ATAR?

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

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

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

If a student completes Mathematics (Advanced) and then goes on to satisfactorily complete HSC Mathematics Extension 1 and HSC Mathematics Extension 2, their results in Mathematics (Advanced) will not be included in the ATAR calculation, even if they have excelled 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. Choose the level of maths that best suits your plans 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).

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 course candidature. Courses such as HSC Mathematics Extension 2 and Physics traditionally scale well because of this. However, students must achieve high HSC marks (and high positions) to gain any benefit from scaling.

Can I be disadvantaged by the school I attend?

No. The school you attend does not feature in the ATAR calculation. Students studying HSC Mathematics Extension 1 (Adv) will not be included in the ATAR calculation, even if they have excelled in it.

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.

Can I get a better ATAR by 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 the 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.

How do I find out my ATAR?

ATARs are released in December each year on UAC’s website. Students log in to access their ATAR.

How do ACT students find out about the ATAR?

ATARs are released on UAC’s website and the My UAC app. Students log in to access their ATAR.

When is the ATAR released?

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

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.

How do ACT students find out about the ATAR?

Information about the calculation of the ACT ATAR is available from the ACT Board of Senior Secondary Studies. Visit bsss.act.edu.au or call (02) 6205 7181.

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) of an applicant to whom an offer of a place was made. We used to refer to this as the course ‘cut-off’. 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. If something inspires you it will motivate you to do your best.

This could be a person:
- your mum or dad
- other family members
- teachers
- neighbours or friends and their families
- someone prominent in public life like a community or church leader, politician or sportsperson.

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?

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 horse riding, 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.
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!

**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 26–31 will help link your interests to possible careers and subject choices.

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

**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.
– Talk to your teachers – they know your abilities and can give you suggestions about careers that may suit you.
– Talk to friends about what they’re interested in, and what they’ve found out that they can share with you.
– 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.
– You can also browse courses in the UAC Guide. Copies are available from your careers adviser, school library or UAC. (Year 12 students receive a copy through their school in July.)
– 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’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 it’s a best mark area in these areas.

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.

Fred is interested in – and good at – sport and fitness. If his skills include being a good communicator, leader and motivator, and being 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. Fred needs to complete this exercise and the results are shown on the facing page.

Fred’s interests could lead him to study for the HSC as shown in the fourth column. Biology, Chemistry, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE), Physics and Modern History.

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), Psychology and Sociology.

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

For these careers he could study banking, 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 (II), Human Services (II) or Retail Services (II) in his HSC courses. However, to be eligible for an ATAR he could 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.
**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 26–31 and match your interests, qualities and skills with those in the left-hand column of the table. These are divided into subject areas and you may find you match one particular area of study, or several.

### WHO AM I?

**What am I interested in?**

**My personal qualities are...**

**My skills are...**

eg writing, listening, drawing, solving problems

**Who inspires me? Why?**

**Who can I talk to?**

Three people I could talk to about my choices.

---

**Worksheet 2**

The next step is to use the ‘What are my options?’ table on pages 26–31 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.

<table>
<thead>
<tr>
<th>Interests</th>
<th>Areas of study that match my interests, qualities and skills</th>
<th>What careers use those skills?</th>
<th>What tertiary courses could I study?</th>
<th>What HSC courses could I choose?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 22–23, 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 in the UAC Guide, on UAC’s website and in the My UAC app.

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#### Key to institution names

<table>
<thead>
<tr>
<th>Institution</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACAP</td>
<td>Australian College of Applied Psychology</td>
</tr>
<tr>
<td>ACU</td>
<td>Australian Catholic University</td>
</tr>
<tr>
<td>AMC</td>
<td>Australian Maritime College</td>
</tr>
<tr>
<td>ANU</td>
<td>Australian National University</td>
</tr>
<tr>
<td>CQU</td>
<td>Central Queensland University</td>
</tr>
<tr>
<td>CSU</td>
<td>Charles Sturt University</td>
</tr>
<tr>
<td>GU</td>
<td>Griffith University</td>
</tr>
<tr>
<td>ICMS</td>
<td>International College of Management, Sydney</td>
</tr>
<tr>
<td>LTU</td>
<td>La Trobe University</td>
</tr>
<tr>
<td>MC</td>
<td>Macleay College</td>
</tr>
<tr>
<td>MIT</td>
<td>MIT Sydney</td>
</tr>
<tr>
<td>MQ</td>
<td>Macquarie University</td>
</tr>
<tr>
<td>NAS</td>
<td>National Arts School</td>
</tr>
<tr>
<td>SAE</td>
<td>SAE Creative Media Institute</td>
</tr>
<tr>
<td>SCU</td>
<td>Southern Cross University</td>
</tr>
<tr>
<td>SIBT</td>
<td>SIBT</td>
</tr>
<tr>
<td>TOP</td>
<td>Top Education Institute</td>
</tr>
<tr>
<td>TUA</td>
<td>Torrens University Australia</td>
</tr>
<tr>
<td>UC</td>
<td>University of Canberra</td>
</tr>
<tr>
<td>UNE</td>
<td>University of New England</td>
</tr>
<tr>
<td>UNSW</td>
<td>University of New South Wales</td>
</tr>
<tr>
<td>UNSW-ADFA</td>
<td>UNSW Canberra at ADFA</td>
</tr>
<tr>
<td>UON</td>
<td>University of Newcastle</td>
</tr>
<tr>
<td>UOW</td>
<td>University of Wollongong</td>
</tr>
<tr>
<td>USYD</td>
<td>University of Sydney</td>
</tr>
<tr>
<td>UTS</td>
<td>University of Technology Sydney</td>
</tr>
<tr>
<td>WS</td>
<td>Western Sydney University</td>
</tr>
</tbody>
</table>

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#### Tertiary courses I could study

<table>
<thead>
<tr>
<th>Agriculture, Rural Studies and Animal Science</th>
<th>Arts and Humanities</th>
<th>Business, Commerce, Economics, Marketing and Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>I could be an ... animal handler, animal welfare officer, conservation manager, farmer, gymleader, horticulturist, land manager, produce manager, stud manager, trainer, veterinarian, winemaker, wool classer</td>
<td>I could be an ... anthropologist, archaeologist, first peoples officer, gallery curator, government policy officer, historian, journalist, language specialist, marketing manager, media officer, producer, researcher, social researcher, translator or interpreter</td>
<td>I could be an ... accountant, auditor, banker, business adviser, business analyst, business consultant, economist, entrepreneur, financial analyst, financial planner, human resources manager, marketing specialist, project manager, stockbroker</td>
</tr>
<tr>
<td>I could study ... agribusiness, agricultural science, animal production science, crop production, equine science and horse management, farm and land management, horticulture, plant pathology, pest and disease management, science and technology, viticulture and wine science, wool science, zoology</td>
<td>I could study ... Aboriginal studies, archaeology, Asian studies, cinema studies, communications, English, international studies, languages, literature, media, modern/ancient history, philosophy, political science, psychology, publishing, religious studies, social science, sociology, theology, women's studies</td>
<td>I could study ... accounting, actuarial studies, agribusiness, banking, business, e-commerce, financial advising, human resource management, international relations, management, marketing, statistics</td>
</tr>
</tbody>
</table>

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#### Where can I study?

<table>
<thead>
<tr>
<th>Study Location</th>
<th>Institutions</th>
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</thead>
<tbody>
<tr>
<td>Country</td>
<td>City</td>
</tr>
<tr>
<td>AAI</td>
<td>Adelaide</td>
</tr>
<tr>
<td>ACAP</td>
<td>Melbourne</td>
</tr>
<tr>
<td>ACU</td>
<td>Melbourne</td>
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<tr>
<td>AMC</td>
<td>Sydney</td>
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<tr>
<td>ANU</td>
<td>Canberra</td>
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<td>CQU</td>
<td>Rockhampton</td>
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<td>CSM</td>
<td>Sydney</td>
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<td>CSU</td>
<td>Griffith</td>
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<td>GU</td>
<td>Gold Coast</td>
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<td>ICMS</td>
<td>Burwood</td>
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<td>LTU</td>
<td>Sydney</td>
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<td>MQ</td>
<td>Lismore</td>
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<td>WS</td>
<td>Sydney</td>
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#### HSC courses I could choose

<table>
<thead>
<tr>
<th>Study Location</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>Country</td>
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<td>WS</td>
<td>Sydney</td>
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</table>
STEPS TO UNI FOR YEAR 10 STUDENTS

Communications and Media Studies

I'm interested in... current affairs, literature, popular culture, social media, world events, politics... I'm good at... writing, public speaking, debating, thinking creatively, motivating people, analytical thinking, using initiative

I could be an... advertising account manager, commentator, editor, filmmaker, journalist, marketing manager, media officer, multimedia designer, presenter, producer, public relations manager

I could study... advertising, creative industries, film, information management, journalism, multimedia, production, radio, television, video, writing

... and I could choose these HSC courses... English, History, Society and Culture, Visual Arts, Entertainment Industry (B)

Where can I study?

ACU, ANU, CDU, CSU, GIU, ICMS, LTM, MC, MQ, SAE, SCD, SIBT, TUA, UC, UNE, UNSW, UOW, USYD, UTS, WS

Creative and Performing Arts

I'm interested in... theatre, fashion, popular culture, music, photography, drawing, painting, graphic design, creating things, research... I'm creative, good with detail, imaginative, organised, a good communicator, an independent worker, outgoing... I'm good at... dancing, acting, performing, making things, playing an instrument, writing, photography, working things (technical skills), solving problems, using initiative, writing

I could be an... animator, artist, cartoonist, composer, fashion designer, film director, graphic designer, illustrator, journalist, multimedia designer, musician, photographer, producer, song writer, teacher, writer

I could study... animation, creative industries, creative writing, fashion, fine arts, graphic design, illustration, journalism, music, photography, theatre studies, visual arts

... and I could choose these HSC courses... English, Dance, Design and Technology, Drama, Music, Software Design and Development, Textiles and Design, Visual Arts, Entertainment Industry (B)

Where can I study?

ACU, ANU, CSU, GIU, LTM, MC, MQ, SAE, SCD, TUA, UC, UNE, UNSW, UOW, USYD, UTS, WS

Earth and Environmental Sciences

I'm interested in... being outdoors, the environment, nature, oceans, marine life, volcanoes, weather, waterways, diving, animals, bushwalking, science... I'm good with detail, organised, observant, resourceful... I'm good at... mathematics, design, science, working alone, working outdoors, critical thinking, solving problems

I could be a... conservationist, environmental officer, environmental planner, environmental scientist, fisheries manager, food and drug safety officer, forestry worker, marine conservation officer, resource manager, urban planner

I could study... climate change, conservation studies, environmental rehabilitation studies, food sustainability, forestry, geography (human and physical), geology, geophysics, marine resources and environmental management, spatial science, sustainability

... and I could choose these HSC courses... Biology, Chemistry, Design and Technology, Earth and Environmental Science, Mathematics (Advanced), Physics, Investigating Science, Society and Culture

Where can I study?

ACU, ANU, CDU, CSU, GIU, LTM, MQ, SCD, TUA, UC, UNE, UNSW, UOW, USYD, UTS, WS

Education and Teaching

I'm interested in... helping others, being outdoors, social equality, teaching and learning, school, children... I'm active, a good communicator, patient, creative, organised, outgoing... I'm good at... time management, leadership, English, maths, planning, presentation, thinking critically

I could be a... community educator, corporate trainer, early childhood teacher, primary teacher, secondary teacher

I could study... adult education, community education, early childhood teaching, human resource development, organisational learning, primary teaching, secondary teaching (specialising in a curriculum area)

... and I could choose these HSC courses... Biology, Chemistry, English, Geography, History, Languages, Investigating Science, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE), Physics, Society and Culture

Where can I study?

ACU, CSU, GIU, LTM, MQ, SCD, TUA, UC, UNE, UNSW, UOW, USYD, UTS, WS

Human Movement and Sport

I'm interested in... sport, coaching, fitness and exercise, how the body works, nutrition, biology, health, helping others, being outdoors... I'm a good communicator, patient, observant, organised, enthusiastic, supportive, persuasive, fit and healthy, confident, outgoing... I'm good at... sports, public speaking, leadership, motivating others, fine motor skills, solving problems, teaching others, science

I could be a... coach, sports marketer, teacher

I could study... human movement and exercise science, exercise science, exercise science, physiotherapy, sports psychology, sports coaching, sports psychology

Where can I study?

ACAP, ACU, ANU, CDU, CSU, GIU, LTM, MQ, SCD, TUA, UC, UNE, UNSW, UOW, USYD, UTS, WS

Health Sciences

I'm interested in... health, nutrition, food, how the body works, people, science, alternative medicines, helping others... I'm caring, curious, dependable, patient, a good communicator, critical thinker, organised, observant, open minded, good with people... I'm good at... leadership, fine motor skills, solving problems, working with others, time management, listening, thinking critically, motivating people

I could be an... ambulance officer, audiologist, beauty therapist, chiropractor, physiotherapist, community health worker, data scientist, dentist, dietitian, doctor, medical scientist, nurse, nutritionist, nutritionist, occupational therapist, oral health therapist, paramedic, pharmacist, physiotherapist, planning and policy officer, podiatrist, radiographer, researcher (eg food, health, medical), speech therapist, sonographer

I could study... 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, podiatry, paramedicine, physiotherapy, pharmacology, podiatry, radiography, speech therapy

Where can I study?

ACAP, ACU, ANU, CDU, CSU, GIU, LTM, MQ, SCD, TUA, UC, UNE, UNSW, UOW, USYD, UTS, WS

Engineering

I'm interested in... maths, science, construction, electronics, computers, programming, mechanics, how things work, robotics... I'm... organised, creative, good with detail, technically minded, patient, persistent, resourceful, analytical... I'm good at... drawing, planning, computing, leadership, designing, solving problems

I could be a... chemical or materials engineer, civil engineer, construction manager, electrical engineer, industrial engineer, manufacturer, mechanical engineer, medical engineer, production engineer

I could study... civil, coastal systems, computer, construction, electrical, environmental or mechanical engineering, engineering mechanics, robotics, science, surveying, telecommunications

... and I could choose these HSC courses... Chemistry, Engineering Studies, Mathematics (Advanced), Physics, Automotive (B), Construction (B), Electrotechnology (B), Information and Digital Technology (B), Metal and Engineering (B)

Where can I study?

ACM, ANU, CDU, CSU, GIU, LTM, MQ, SCD, SIBT, TUA, UC, UNE, UNSW, 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

My interests, qualities and skills

Careers that use my interests, qualities and skills

Tertiary courses I could study

HSC courses I could choose

Where can I study?
<table>
<thead>
<tr>
<th>My interests, qualities and skills</th>
<th>Careers that use my interests and skills</th>
<th>Tertiary courses I could study</th>
<th>HSC courses I could choose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Technology and Information Systems</td>
<td>I could be a computer programmer, web developer, software engineer, database administrator, system analyst, visual effects artist, game designer, graphic designer, film maker, illustrator, IT consultant, digital artist, system administrator.</td>
<td>Computer science, computing, data science, digital business, electronics, information systems, information technology, programming, software engineering.</td>
<td>... and I could choose these HSC courses: Business Studies, Design and Technology, Information and Digital Technology (IIT), Information and Communication Technology (ICT), Software Design and Development.</td>
</tr>
</tbody>
</table>

Where can I study? | ACU, ANU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, USYD, USYD, UTS, UTS, WS |

| Law | I could be a barrister, judge, legal adviser, legal officer, legal researcher, magistrate, police officer, politician, solicitor. | Convening Justice Studies, Law, legal studies, paralegal studies, political studies. | ... and I could choose these HSC courses: Business Studies, Economics, English, Legal Studies, Social and Cultural. |

Where can I study? | ACU, ANU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, WS |

| Medical Sciences and Medicine | I could be a biochemist, biomedical engineer, clinical scientist, diagnostician, laboratory technician, medical technologist, medical researcher, pathologist, pharmacist, radiologist, sonographer. | Biomedical sciences, forensic science, health sciences, medicine, medical engineering, nanotechnology, optometry, paramedics, pharmacy, physiotherapy. | ... and I could choose these HSC courses: Biology, Chemistry, Community and Family Services, Mathematics (Advanced), Physics, Investigating Science. |

Where can I study? | ACU, ANU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, WS |

| Nursing and Midwifery | I could be an aged care nurse, community health nurse, critical care nurse, disability nurse, health promotion officer, indigenous health worker, mental health nurse, midwife, nurse educator, occupational health nurse, paediatric nurse, pharmaceutical sales rep, rural and remote health worker. | Aged Care Nursing, Community Health Nursing, Critical Care Nursing, Disability Nursing, Mental Health Nursing, Midwifery Nursing, Nursing (Community), High-Dependency Nursing, Perioperative Nursing, Palliative Care, Paediatrics, Primary Health Care, Medical/Surgical Nursing, Rehabilitation. | ... and I could choose these HSC courses: Biology, Chemistry, Community and Family Services, English, Investigating Science, Mathematics (Advanced). |

Where can I study? | ACU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, UTS, UTS, WS* | Includes midwifery |

| Science, Applied Science and Technology | I could be an aviation engineer, community worker, mathematics data analyst, field researcher, geologist, laboratory technician, medical assistant, medical student, medical researcher, sports psychologist, urban planner, vet, zoologist. | ... and I could choose these HSC courses: Agriculture, Applied Studies, Aviation Science, Biological Science, Chemistry, Environmental Science, Equine Science, Food Science or Technology, Geology, Forensics, Horticulture, Marine Science, Mathematics, Medical Science, Nanotechnology, Physics, Psychology, Statistics, Technology, Veterinary Science, Zoology. |

Where can I study? | ACAP, ACU, ANU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, WS |

| Social Work and Welfare | I could be an aged care worker, child protection officer, community care worker, disability officer, migrant welfare officer, social worker, welfare support officer, youth worker. | ... and I could choose these HSC courses: Community and Family Services, Economics, English, Mathematics (Advanced), Modern History, Society and Culture. |

Where can I study? | ACAP, ACU, ANU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, WS |

| Social Sciences | I could be a community worker, occupational therapist, social worker, vocational guidance counsellor, welfare support officer, welfare worker. | ... and I could choose these HSC courses: Community and Family Services, Economics, English, Geography, Psychology, Social Research, Social Work, Sociology, Psychology, Research Skills, Youth Work. |

Where can I study? | ACAP, ACU, ANU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, WS |

| Tourism, Hospitality and Event Management | I could be an environmental planner, event manager, hotel manager, resort manager, restaurateur, travel consultant, tour operator. | ... and I could choose these HSC courses: Economics, English, Languages, Mathematics (Advanced), Society and Culture, Hospitality (B), Tourism, Travel and Events (B). |

Where can I study? | ACU, CDU, CSU, QUT, UOW, UOW, UWS, UTS, UTS, WS |

*Includes midwifery.
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 think about the ATAR you need for entry to a specific course at a specific university 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), HSC English Extension 1 and HSC English Extension 2. HSC subjects and HSC courses are listed in the table on pages 40–41.

If you want to study at uni but still can’t decide on a course, 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 flexible 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.

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.

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 40–41.

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 two 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. Check the areas of study in each institution's requirements.

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 two units of English as assumed knowledge. Luckily, he has chosen Mathematics (Advanced) and English in 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.

English Standard and Mathematics Standard 2 have the largest candidatures in the HSC.
entry for details. If you are considering studying English at tertiary level, English (Advanced) or HSC 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 HSC Mathematics Extension 1 or HSC 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.

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

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.

Music

Music can be included in your HSC program by studying Music 1, Music 2 or HSC 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 two 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 NESA. 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 two units of English.

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

<table>
<thead>
<tr>
<th>Fred and Laura</th>
<th>Course</th>
<th>Units</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Business Studies</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>English (Advanced)</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Mathematics (Advanced)</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Modern History</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
</tbody>
</table>

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 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (Advanced)</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>HSC English Extension 1</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Mathematics (Advanced)</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>HSC Mathematics Extension 1</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Chemistry</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Biology</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Ancient History</td>
<td>2</td>
<td>A</td>
</tr>
</tbody>
</table>

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

Joshua – Year 12

<table>
<thead>
<tr>
<th>Course</th>
<th>ATAR units</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (Advanced)</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>HSC English Extension 1</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>HSC Mathematics Extension 2</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Mathematics (Advanced)</td>
<td>0</td>
<td>A</td>
</tr>
<tr>
<td>HSC Mathematics Extension 1</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>HSC Mathematics Extension 2</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Ancient History</td>
<td>2</td>
<td>A</td>
</tr>
</tbody>
</table>

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

First, only up to 4 units of maths can be included in the ATAR calculation. So taking Mathematics (Advanced), HSC Mathematics Extension 1 and HSC Mathematics Extension 2 means 2-unit Mathematics (Advanced) will no longer be available for Joshua’s ATAR calculation, even if he excels in it.

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

Jessica

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (Standard)</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Business Studies</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Legal Studies</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Economics</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Business Services</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>Hospitality</td>
<td>2</td>
<td>B</td>
</tr>
</tbody>
</table>

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.
### 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.

<table>
<thead>
<tr>
<th>Number</th>
<th>Course name</th>
<th>Unit value</th>
<th>Subject area</th>
</tr>
</thead>
<tbody>
<tr>
<td>0507</td>
<td>Drama</td>
<td>2</td>
<td>Drama</td>
</tr>
<tr>
<td>0508</td>
<td>Design and Technology</td>
<td>2</td>
<td>Design and Technology</td>
</tr>
<tr>
<td>0509</td>
<td>Earth and Environmental Science</td>
<td>2</td>
<td>Earth and Environmental Science</td>
</tr>
<tr>
<td>1310</td>
<td>Economics</td>
<td>2</td>
<td>Economics</td>
</tr>
<tr>
<td>1300</td>
<td>Mathematics</td>
<td>2</td>
<td>Mathematics</td>
</tr>
<tr>
<td>1319</td>
<td>Visual Design</td>
<td>1</td>
<td>Visual Design</td>
</tr>
<tr>
<td>1500</td>
<td>Visual Arts</td>
<td>2</td>
<td>Visual Arts</td>
</tr>
<tr>
<td>15310</td>
<td>HSC Music Extension 2</td>
<td>2</td>
<td>Music</td>
</tr>
<tr>
<td>4000</td>
<td>Agriculture</td>
<td>2</td>
<td>Agriculture</td>
</tr>
<tr>
<td>4001</td>
<td>History</td>
<td>2</td>
<td>History</td>
</tr>
<tr>
<td>4007</td>
<td>Technology</td>
<td>2</td>
<td>Technology</td>
</tr>
<tr>
<td>4008</td>
<td>Food Technology</td>
<td>2</td>
<td>Food Technology</td>
</tr>
<tr>
<td>4009</td>
<td>Geography</td>
<td>2</td>
<td>Geography</td>
</tr>
<tr>
<td>4010</td>
<td>Industrial Technology</td>
<td>2</td>
<td>Industrial Technology</td>
</tr>
<tr>
<td>4020</td>
<td>Information Processes and Technology</td>
<td>2</td>
<td>Information Processes and Technology</td>
</tr>
<tr>
<td>4025</td>
<td>Investigating Science</td>
<td>2</td>
<td>Investigating Science</td>
</tr>
<tr>
<td>4026</td>
<td>Legal Studies</td>
<td>2</td>
<td>Legal Studies</td>
</tr>
<tr>
<td>4027</td>
<td>Mathematics Standard 1 (Advanced)</td>
<td>2</td>
<td>Mathematics Standard 1 (Advanced)</td>
</tr>
<tr>
<td>4028</td>
<td>Mathematics Standard 2 (Advanced)</td>
<td>2</td>
<td>Mathematics Standard 2 (Advanced)</td>
</tr>
<tr>
<td>4029</td>
<td>Mathematics Extension 1 (Advanced)</td>
<td>2</td>
<td>Mathematics Extension 1 (Advanced)</td>
</tr>
<tr>
<td>4030</td>
<td>Modern History</td>
<td>2</td>
<td>Modern History</td>
</tr>
<tr>
<td>4031</td>
<td>Modern History Extension</td>
<td>2</td>
<td>Modern History Extension</td>
</tr>
<tr>
<td>4032</td>
<td>Music</td>
<td>2</td>
<td>Music</td>
</tr>
<tr>
<td>4033</td>
<td>Music Extension</td>
<td>2</td>
<td>Music Extension</td>
</tr>
<tr>
<td>4034</td>
<td>Personal Development, Health and Physical Education</td>
<td>2</td>
<td>Personal Development, Health and Physical Education</td>
</tr>
<tr>
<td>4035</td>
<td>Physics</td>
<td>2</td>
<td>Physics</td>
</tr>
<tr>
<td>4036</td>
<td>Science</td>
<td>2</td>
<td>Science</td>
</tr>
<tr>
<td>4037</td>
<td>Society and Culture</td>
<td>2</td>
<td>Society and Culture</td>
</tr>
<tr>
<td>4038</td>
<td>Software Design and Development</td>
<td>2</td>
<td>Software Design and Development</td>
</tr>
<tr>
<td>4039</td>
<td>Visual Arts</td>
<td>2</td>
<td>Visual Arts</td>
</tr>
</tbody>
</table>

### Languages

<table>
<thead>
<tr>
<th>Number</th>
<th>Course name</th>
<th>Unit value</th>
<th>Subject area</th>
</tr>
</thead>
<tbody>
<tr>
<td>6500</td>
<td>Arabic Beginners</td>
<td>2</td>
<td>Arabic</td>
</tr>
<tr>
<td>6510</td>
<td>Arabic Continuers</td>
<td>2</td>
<td>Arabic</td>
</tr>
<tr>
<td>6530</td>
<td>Classical Arabic Extension</td>
<td>2</td>
<td>Classical Arabic</td>
</tr>
<tr>
<td>6540</td>
<td>Chinese Beginners</td>
<td>2</td>
<td>Chinese</td>
</tr>
<tr>
<td>6550</td>
<td>Chinese Continuers</td>
<td>2</td>
<td>Chinese</td>
</tr>
<tr>
<td>6560</td>
<td>Classical Chinese Extension</td>
<td>1</td>
<td>Classical Chinese</td>
</tr>
<tr>
<td>6570</td>
<td>HSC Chinese Extension 1</td>
<td>1</td>
<td>Chinese</td>
</tr>
<tr>
<td>6580</td>
<td>Classical Greek Continuers</td>
<td>2</td>
<td>Classical Greek</td>
</tr>
<tr>
<td>6590</td>
<td>Classical Greek Extension</td>
<td>1</td>
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### Board Endorsed Courses

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</table>

### Category B courses

1. You can study both Ancient History and Modern History, but there is only one HSC History Extension course. It is considered a course within the subject of either Modern History or Ancient History.
2. You must study Music 2 if you wish to study HSC Music Extension.
3. You may study either Studies of Religion I or Studies of Religion II, but not both.
4. You may study only one of the following languages: Croatian continuers, Macedonian continuers, Serbian continuers.
5. You can only count either Malay Background Speakers or Indonesian and Literature in your pattern of study.
6. An optional HSC written examination is offered for students who complete the 240-hour HSC indicative course. If you want the results from this course to be available in the calculation of your ATAR, subject to ATAR rules (read page 08), you must undertake the optional written examination. Other VET courses available in this subject area are not examinable.
7. An optional HSC written examination is offered for students who complete the 240 or 360 HSC indicative hour course. If you want the results from this course to be available for inclusion in the calculation of your ATAR, subject to ATAR rules, you must undertake the optional written examination. Other VET courses available in this subject area are not examinable.
8. The unit value of this course changes depending on whether the course is taken in combination with Mathematics (Advanced) or HSC Mathematics Extension 2. Read ‘Mathematics’ on page 36.

### Notes

- You can study both Ancient History and Modern History, but there is only one HSC History Extension course. It is considered a course within the subject of either Modern History or Ancient History.
- You must study Music 2 if you wish to study HSC Music Extension.
- You may study either Studies of Religion I or Studies of Religion II, but not both.
- You may study only one of the following languages: Croatian continuers, Macedonian continuers, Serbian continuers.
- You can only count either Malay Background Speakers or Indonesian and Literature in your pattern of study.
- An optional HSC written examination is offered for students who complete the 240-hour HSC indicative course. If you want the results from this course to be available in the calculation of your ATAR, subject to ATAR rules (read page 08), you must undertake the optional written examination. Other VET courses available in this subject area are not examinable.
- An optional HSC written examination is offered for students who complete the 240 or 360 HSC indicative hour course. If you want the results from this course to be available for inclusion in the calculation of your ATAR, subject to ATAR rules, you must undertake the optional written examination. Other VET courses available in this subject area are not examinable.
- The unit value of this course changes depending on whether the course is taken in combination with Mathematics (Advanced) or HSC Mathematics Extension 2. Read ‘Mathematics’ on page 36.
PART 2: INSTITUTION CRITERIA

In this section, UAC’s participating institutions have listed the courses they plan to offer in 2021.

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 HSC Mathematics Extension 1). Read pages 40–41 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 HSC Mathematics Extension 1 or HSC 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 two units of’. For example, where you read ‘any two units of English’, this means that any 2-unit English course is acceptable. Institutions that ask for ‘any two 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 Undergraduate Medicine and Health Sciences Admission Test (UMAT).

**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 may still be selected for the course but have some 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.
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AUSTRALIAN CATHOLIC UNIVERSITY | 47

**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), mathematics, plus one of Biology, Chemistry or Physics

**PHYSIOTHERAPY**
Areas of study: Physiotherapy
Course prerequisites: Any 2 units of English plus at least one of Biology, Chemistry or Physics

**PSYCHOLOGICAL SCIENCE**
Areas of study: Psychology
Course prerequisites: Any 2 units of English

**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)

**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), mathematics, plus one of Biology, Chemistry or Physics

**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

**VISUAL ARTS AND DESIGN**
Areas of study: 3D:4D object design, art and design history and theory, drawing, graphic design, painting, photography, printmaking, sculpture
Recommended studies: Personal Development, Health and Physical Education (PDHPE), mathematics, plus one of Biology, Chemistry or Physics

**EXERCISE AND SPORTS SCIENCE**
Areas of study: Exercise, sports science
Recommended studies: English (Advanced), mathematics, Personal Development, Health and Physical Education (PDHPE), plus one of Biology, Chemistry or Physics

**EXERCISE SCIENCE**
Areas of study: Exercise, sports science
Recommended studies: English (Advanced), 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 below (p33)*

**GLOBAL STUDIES**
Only available as a combined degree option - refer to Combined degrees at the end of the ANU 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), mathematics, plus one of Biology, Chemistry or Physics

**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
- Nutrition/Nursing
- Nutrition Science/Business Administration
- Psychological Science/Arts
- Psychological Science/Commerce
- Psychological Science/Exercise and Sports Science
- Theology/Philsophy

**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

**Languages**

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

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

AUSTRALIAN NATIONAAL UNIVERSITY

Enquiries

by post: ANU Admissions Office Building X-005
Australian National University
Canberra ACT 2601

in person: ANU Student Central
121 Marcus Clarke Street
(entrance off Childers Street)
Acton ACT 2601

telephone: (02) 6125 5594 or
freetoll 1800 061 199
email: domestic.admissions@anu.edu.au

READ THIS FIRST

Where a course is offered at the Canberra campus, both the NSW and ACT subject requirements are listed.

ACCOUNTING

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

ACTUALUR STUDIES

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

ADVANCED COMPUTING

- Areas of study: Computer science, cyber security, data analysis, 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: HSC Mathematics Extension 1
- Recommended studies: ACT: Specialist Mathematics (Double Major)
  NSW: HSC Mathematics Extension 2

ADVANCED COMPUTING (RESEARCH AND DEVELOPMENT)

- Areas of study: Computer science, cyber security, programming, research projects, systems and architecture, theoretical computer science
- Course prerequisites: ACT: Specialist Mathematics (Major/Minor)
  NSW: HSC Mathematics Extension 1
- Recommended studies: ACT: Specialist Mathematics (Double Major)
  NSW: HSC Mathematics Extension 2

APPLIED SCIENCE

- Nautical Science
- Marine Engineering
- Marine Electrical Engineering
  Course prerequisites: Mathematics Standard 2 (or equivalent), Physics or Chemistry or a Physical science subject.
  Recommended studies: Mathematics (Advanced), English, Physics or Chemistry

BUSINESS

- Global Logistics and Maritime Management
- Global Logistics and Maritime Management with Honours
- Areas of study: Port and terminal management, ship operations management, maritime economics

ENGINEERING

- Engineering (Specialisation) with Honours
  Areas of study: Marine and offshore engineering, naval architecture, ocean engineering
  Course prerequisites: Mathematics (Advanced), any two units of science
  Recommended studies: HSC Mathematics Extension 1 plus Physics and Chemistry
  Diploma of University Studies (Engineering)
  Recommended studies: Any two units of mathematics

APPLIED DATA ANALYTICS

- Areas of study: Computer science, databases, data science, programming, social science, sociology, statistics
- Assumed knowledge: ACT: Mathematical Methods (Major)
  NSW: Mathematics (Advanced)

ASIAN STUDIES


AUSTRALIAN NATIONAL UNIVERSITY

www.anu.edu.au
CRICOS provider number 00120C

Enquiries

by post: ANU Admissions Office
Building X-005
Australian National University
Canberra ACT 2601

in person: ANU Student Central
121 Marcus Clarke Street
(entrance off Childers Street)
Acton ACT 2601

telephone: (02) 6125 5594 or
freetoll 1800 061 199
email: domestic.admissions@anu.edu.au

AUSTRALIAN COLLEGE OF APPLIED PSYCHOLOGY

acap.edu.au
CRICOS provider number 01328A

Enquiries

by post: Australian College of Applied Psychology
Locked Bag 11
Strawberry Hills NSW 2012

in person: 255 Elizabeth Street
Sydney NSW 2000

telephone: 1800 061 199
email: info.acap@nauttas.com

AUSTRALIAN MARITIME COLLEGE

amc.edu.au
CRICOS provider number 00584B

Enquiries

by post: AMC Course Info
Australian Maritime College
Locked Bag 1345
Launceston TAS 7250

in person: Prospective Student Adviser
Australian Maritime College Student Centre
Newnham TAS 7248

telephone: 1300 363 864
email: amc.coursedep@utas.edu.au

READ THIS FIRST

- When you read ‘any two 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 Dip is shown in brackets. Subheadings are specialisations within the courses.
BIOTECHNOLOGY
Areas of study: Biochemistry, bioinformatics, biotechnology, chemistry, genetics, microbiology, molecular biology
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)

COMPUTING (DIP)
Areas of study: Databases, information systems, programming
Course prerequisites: ACT: Mathematical Methods (Major) NSW: Mathematics (Advanced)

CREATIVE DESIGN (DIP)
Areas of study: Creative design, design, design arts, visual arts

DESIGN
Areas of study: Animation and video, ceramics, furniture, glass, gold and silversmithing, painting, photography, printmedia, printmaking and drawing, sculpture, textiles
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, electronics and communication systems, mechanical and material systems, mechatronic systems, photonic systems, renewable energy systems, sustainable 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: HSC Mathematics Extension 1

ENGINEERING (RESEARCH AND DEVELOPMENT)
Areas of study: Biomedical systems, electronics and communication systems, mechanical and material systems, mechatronic systems, photonic systems, renewable energy systems, sustainable 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: HSC 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: HSC Mathematics Extension 1 (Band E3)
Recommended studies: ACT: Specialist Mathematics (Double Major) NSW: HSC Mathematics Extension 2

GENETICS
Areas of study: Bioinformatics, evolutionary genetics, genetics, Molecular, molecular and medical genetics, population
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, 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, European, Latin American or Middle Eastern languages and cultural studies
Assumed knowledge: ACT: Mathematical Methods (Major) NSW: Mathematics (Advanced)

INTERNATIONAL SECURITY STUDIES
Areas of study: 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, Russian, Spanish, 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, German, Hindi, Indonesian, Italian, Japanese, Korean, Latin, literary Chinese, Mongolian, Persian, Russian, Sanskrit, Spanish, Tetum, Thai, Vietnamese

LAW
Areas of study: Law, legal studies

LIBERAL STUDIES (DIP)
Areas of study: Anthropology, criminology, development studies, English, history, international relations, philosophy, political science, sociology

MATHEMATICAL SCIENCES
Areas of study: Mathematics
Course prerequisites: ACT: Specialist Mathematics (Double Major) NSW: HSC Mathematics Extension 2

MEDICAL SCIENCE
Areas of study: Biochemistry, genetics, immunology, medical science, microbiology, molecular biology, physiology
Course prerequisites: ACT: Chemistry (Major) NSW: Chemistry

MUSIC
Areas of study: Creative musicianship (including composition), musicology (including ethnomusicology), performance
Additional selection criteria: Some music courses require an audition

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

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 prerequisite and assumed knowledge: Some science courses have subject prerequisites or assumed knowledge of Mathematics (Advanced), Physics or Chemistry. For further information, visit programands cours.eau.edu.au.

SOCIAL SCIENCE
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: HSC Mathematics Extension 1 (Band E3)
Recommended studies: ACT: Specialist Mathematics (Double Major) NSW: HSC Mathematics Extension 2

SOFTWARE ENGINEERING
Areas of study: Artificial intelligence, cyber security, programming, project management, system design and analysis, system development
Course prerequisites: ACT: Mathematical Methods (Major) NSW: Mathematics (Advanced)
Recommended studies: ACT: Specialist Mathematics (Major/Minor) NSW: HSC Mathematics Extension 1

STATISTICS
Areas of study: Applied probability, business statistics, economics, financial statistics, psychological or social research methods, statistical methodology
Course prerequisites: ACT: Specialist Mathematics (Major/Minor) (160+)
NSW: HSC Mathematics Extension 1 (Band E3)
Recommended studies: ACT: Specialist Mathematics (Double Major) NSW: HSC Mathematics Extension 2

VISUAL ARTS
Areas of study: Animation and video, ceramics, furniture, glass, gold and silversmithing, painting, photography, printmedia, printmaking and drawing, sculpture, textiles
Additional selection criteria: Interview, portfolio

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.

*Courses below marked with an asterisk include prerequisite and/or additional selection criteria – see main area of study for requirements.

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
Flexible Double Engineering or Advanced Computing
By selecting this group as a preference, you can choose any of the following bachelor degrees:
- Advanced Computing (Honors)
- Advanced Computing (Research and Development) (Honors)
- Engineering (Honors)
- Engineering (Research and Development) (Honors)
- Software Engineering (Honors)

Flexible Double Law or Advanced Computing
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:
- Advanced Computing (Honors)
- Advanced Computing (Research and Development) (Honors)
- Engineering (Honors)
- Engineering (Research and Development) (Honors)
- Software Engineering (Honors)

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

UNDERGRADUATE RESEARCH DEGREES
The Australian National University offers the following undergraduate research degrees:
- B Advanced Computing (Research and Development) (Honors)
- B Engineering (Research and Development) (Honors)
- B Finance, Economics and Statistics (Honors)
- B Asia Pacific Studies (Year in Asia)
- B Science (Advanced) (Honors)
- B Philosophy (Honors) Arts*
- B Philosophy (Honors) Science*
- B Philosophy (Honors) Asia and the Pacific

* If 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

Important:
- You must be accepted into a single bachelor degree before you can create a vertical degree option.
- The vertical degree option must be chosen before the start of the first semester of your undergraduate degree.
- If you choose the vertical degree option, you will be subject to the rules and regulations of the vertical degree program.

For more information, visit anu.edu.au/undergraduate-research-degrees or contact the Australian National University.
EDUCATION
Early Childhood and Primary
Health and Physical Education
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–2
Areas of study: Business studies, English, mathematics, modern history, science
• 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: Agriculture (includes biology), design and technology, 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 (Advanced), 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 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
• Assumed knowledge: Geography or any 2 units of science

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 (Paramed)
• 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), Physics

Recommended studies: English (Standard)

Additional selection criteria: Refer to csudeanau/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

Pediatric Medicine
• Assumed knowledge: English (Standard)

Recommended studies: Biology, Mathematics (Advanced)

Physiotherapy
• Assumed knowledge: Biology, English (Standard), Mathematics (Advanced)

Recommended studies: Physics

Speech and Language Pathology
• Assumed knowledge: English (Standard)

Recommended studies: Biology, Mathematics (Advanced)

Information TECHNOLOGY
Computer Science
• Assumed knowledge: Mathematics (Advanced)

Recommended studies: Computer science, games programming

Information Technology
• Assumed knowledge: Mathematics (Advanced)

Recommended studies: Computer science, games programming

Areas of study: Computer science, games programming, network design and development, systems administration

LAW
Areas of study: English (Standard)

Assumed knowledge: English (Advanced), Legal Studies

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: Biology, Chemistry, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE), first-aid certificate, mental health first-aid certificate

PHARMACY
• Assumed knowledge: Chemistry, Mathematics (Advanced)

Recommended studies: Biology

PSYCHOLOGY
Areas of study: Psychology, social science (psychology)

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: Chemistry or Physics

General Studies (Science)
• Assumed knowledge: Any 2 units of science

SOCIAL SCIENCE
Areas of study: Criminal justice, psychology

SOCIAL WORK
Areas of study: Social work

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

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)

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)
– Psychology/Business (Management)
– Psychology/Business (Marketing)
– Public Relations/Business Studies
STEPS TO UNI FOR YEAR 10 STUDENTS

COUNIVERSITY
CQUniversity CRICOS provider number 00299C

Enquiries
by post: Student Admissions
CQUniversity
400 Kent Street
Sydney NSW 2000
in person: Student Admissions
CQUniversity
400 Kent Street
Sydney NSW 2000
telephone: 13 CQU (13 27 86)
email: via contactus@cqu.edu.au

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STEPS TO UNI FOR YEAR 10 STUDENTS

− 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.

ACADEMIC 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: Biology, Chemistry, Physics

ACCOUNTING
Areas of study: Accounting, business computing, contract law, human resource management, marketing, organisational behaviour, property, public relations
Recommended studies: English (Standard), Mathematics (Advanced)

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
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
Areas of study: Contract administration, design of residential and commercial buildings
Recommended studies: English (Standard), Mathematics (Advanced)

BUILDING SURVEYING AND CERTIFICATION
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, gis/geospatial studies, professional practice, structural forms
Recommended studies: English (Standard), Mathematics (Advanced)

DIGITAL MEDIA
Areas of study: Design, design, graphic design, interactive media, technology and media, video and animation
Course prerequisites: English (Standard)

ELECTROCARDIOGRAPHY (CARDIAC PHYSIOLOGY)
Areas of study: Adult echocardiography, cardiac physiology, foetal echocardiography, paediatric cardiovascular, vascular sonography
Recommended studies: English (Standard), Mathematics (Advanced)

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: HSC Mathematics Extension 1, Physics, Graphics For Engineering (Assoc Deg): English (Standard), Mathematics, Advanced, any 2 units of science

ENGINEERING TECHNOLOGY
Areas of study: Engineering: civil, electrical, mechanical
Course prerequisites: English (Standard), Mathematics (Advanced)
Recommended studies: English (Standard), Mathematics (Advanced)

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, sports management
Course prerequisites: English (Standard)
Recommended studies: Biology, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE)

HEALTH SCIENCE (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

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
Recommended studies: Information Processes and Technology, Software Design and Development
Course prerequisites: English (Standard)

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)

MEDICAL LABORATORY SCIENCE (HONOURS)
Areas of study: Medical laboratory science
Course prerequisites: English (Standard)
Recommended study: Mathematics (Advanced), Biology, Chemistry, Science

MEDICAL SCIENCE
Areas of study: Biotechnology, clinical investigation, nutrition
Recommended studies: Biology, Chemistry, Mathematics (Advanced), Physics

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, physics
Course prerequisites: English (Standard)
Recommended studies: Biology plus Chemistry or Physics

PROFESSIONAL COMMUNICATION
Areas of study: Communication, digital media, human resource management, journalism, management, marketing, sociology
Course prerequisites: English (Standard)

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

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

SCIENCE
Areas of study: Applied biology, applied chemistry
Course prerequisites: English (Standard)
Recommended studies: Biology, Chemistry, Mathematics (Advanced)

SCIENCE (CHIROPRACTIC)
Areas of study: Chemistry fundamentals, foundations of biochemistry, foundations of chiropractic
Course prerequisites: English (Standard)
Recommended studies: Biology, Chemistry, Physics

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.

− Accountancy/Business = Laws/Accounting
− Arts/Business = Laws/Arts
− Business/Professional Communication

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STEPS TO UNI FOR YEAR 10 STUDENTS

ARCHITECTURAL DESIGN
Course prerequisites: Any 2 units of English
Recommended studies: Mathematics (Standard 2) or Mathematics (Advanced)

CONSTRUCTION MANAGEMENT (HONOURS)
Areas of study: Data science and artificial intelligence, software development
Course prerequisites: Any 2 units of English plus Mathematics Standard 3 or Mathematics (Advanced)

COUNSELLING
Course prerequisites: Any 2 units of English

CREATIVE AND INTERACTIVE MEDIA
Areas of study: Digital arts and design, media applications
Course prerequisites: Any 2 units of English

CRIMINOLOGY AND CRIMINAL JUSTICE
Course prerequisites: Any 2 units of English

DENTAL HEALTH SCIENCE
Course prerequisites: Any 2 units of English
Assumed knowledge: One of Biology, Chemistry, Physics or Mathematics (Advanced)

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

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

ENGINEERING (HONOURS)
Areas of study: Civil, civil and architectural, electrical and electronic, mechanical
Course prerequisites: Any 2 units of English, Mathematics (Advanced)
Recommended studies: One of Physics, Chemistry, HSC Mathematics Extension 1 or HSC 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

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

GOVERNMENT AND INTERNATIONAL RELATIONS
Areas of study: Asian political science, Pacific politics, political theory, political science, security studies
Course prerequisites: Any 2 units of English

HEALTH SCIENCE
Areas of study: Environmental health, environmental toxicology
Course prerequisites: Any 2 units of English

HUMAN SERVICES
Course prerequisites: Any 2 units of English

INDUSTRIAL DESIGN
Course prerequisites: Any 2 units of English
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
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
Recommended studies: Any 2 units of English

INTERNATIONAL TOURISM AND HOTEL MANAGEMENT
Areas of study: Event management, hospitality management, human resource management, management, marketing, real estate and property development, sport management, tourism management
Course prerequisites: Any 2 units of English

LANGUAGES AND LINGUISTICS
Areas of study: Chinese, Italian, Japanese, linguistics, Modern Greek, Spanish
Recommended studies: Any 2 units of English

LAW
Course prerequisites: Any 2 units of English

LAW (COMBINED)
The following combined Law courses are available:

- Arts/Law
- Business/Law
- Commerce/Law
- Criminology and Criminal Justice/Law
- Environmental Science/Law
- Government and International Relations/Law
- International Business/Law
- Pharmacology and Toxicology/Law
- Psychological Science/Law

Course prerequisites: Any 2 units of English

MAINE SCIENCE
Areas of study: Coastal management, coastal oceanography, marine chemistry, marine ecology
Course prerequisites: Any 2 units of English

MEDICAL LABORATORY SCIENCE
Course prerequisites: Any 2 units of English
Assumed knowledge: Mathematics (Advanced) plus one of Biology, Chemistry or Physics

MEDICAL SCIENCE
Course prerequisites: Any 2 units of English
Assumed knowledge: Mathematics (Advanced) plus one of Biology, Chemistry or Physics
**STEPS TO UNI FOR YEAR 10 STUDENTS**

### NURSING
- **Course prerequisites:** Any 2 units of English
- **Assumed knowledge:** Biology, Chemistry, Mathematics (Advanced)

### NUTRITION AND DIETETICS
- **Course prerequisites:** Any 2 units of English
- **Assumed knowledge:** One of Biology, Chemistry, Physics, Mathematics Standard 2 or Mathematics (Advanced)

### OCCUPATIONAL THERAPY
- **Course prerequisites:** Any 2 units of English plus one of Biology, Chemistry or Physics

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

### PHARMACOLOGY AND TOXICOLOGY
- **Course prerequisites:** Any 2 units of English
- **Assumed knowledge:** Mathematics (Advanced) or HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus one of Biology, Chemistry or Physics

### PHARMACY
- **Course prerequisites:** Any 2 units of English plus one of Mathematics (Advanced) or HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus one of Biology, Chemistry or Physics
- **Course prerequisites:** Any 2 units of English
- **Assumed knowledge:** Biology, Chemistry, Mathematics (Advanced)

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

### PSYCHOLOGICAL SCIENCE
- **Course prerequisites:** Any 2 units of English
- **Course prerequisites:** Any 2 units of English

### PSYCHOLOGY (HONOURS)
- **Course prerequisites:** Any 2 units of English

### PUBLIC HEALTH
- **Course prerequisites:** Any 2 units of English

### SCIENCE
- **Areas of study:** Applied mathematics, biochemistry and molecular biology, chemistry, geography, marine biology, physics, wildlife biology
- **Course prerequisites:** Any 2 units of English
- **Assumed knowledge:** Mathematics Standard 2 or Mathematics (Advanced)
- **Recommended studies:** One of Biology, Chemistry or Physics

### 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

### SOCIAL WORK
- **Course prerequisites:** Any 2 units of English

### SPORT DEVELOPMENT
- **Course prerequisites:** Any 2 units of English
- **Assumed knowledge:** One of Biology, Chemistry, Physics, Mathematics, Social Science

### URBAN AND ENVIRONMENTAL PLANNING
- **Course prerequisites:** Any 2 units of English
- **Recommended studies:** Mathematics Standard 2 or Mathematics (Advanced)

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

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**INTERNATIONAL COLLEGE OF MANAGEMENT, SYDNEY**

**icms.edu.au**

CRICOS provider number 01484M

**Enquiries**
- **by post:** Domestic Student Advisers
  International College of Management, Sydney
  151 Darley Road
  Manly NSW 2095

- **in person:** Reception
  151 Darley Road
  Manly NSW 2095

- **telephone:** 1800 110 490
- **email:** info@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 within the course.

**BUSINESS MANAGEMENT**
- **Entrepreneurship**
- **Marketing and New Media**
- **Retail Marketing**
- **Fashion & Global Brand Management**

**Accounting**
- **Recommended studies:** Any 2 units of English plus one of Business Studies, Economics, any 2 units of Mathematics, Mathematics, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Business Services

**Additional selection criteria:** Interview

**EVENT MANAGEMENT**
- **Recommended studies:** Any 2 units of English plus one of Business Studies, Economics, any 2 units of Mathematics, Mathematics, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Business Services

**Additional selection criteria:** Interview

**HOSPITALITY MANAGEMENT**
- **Recommended studies:** Any 2 units of English plus one of Business Studies, Economics, any 2 units of Mathematics, Mathematics, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Business Services

**Additional selection criteria:** Interview

**INTERNATIONAL TOURISM**
- **Recommended studies:** Any 2 units of English plus one of Business Studies, Economics, any 2 units of Mathematics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Business Services

**Additional selection criteria:** Interview

**PROPERTY (DEVELOPMENT, INVESTMENT AND VALUATION)**
- **Recommended studies:** Any 2 units of English plus one of Business Studies, Economics, any 2 units of Mathematics, Chemistry, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Business Services

**Additional selection criteria:** Interview

**SPORTS MANAGEMENT**
- **Recommended studies:** Any 2 units of English plus one of Business Studies, Economics, any 2 units of Mathematics, Mathematics, Physics, Biology, Investigating Science, Legal Studies, Financial Services or Business Services

**Additional selection criteria:** Interview
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.

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, Creative Arts, Education, Law, Media/Journalism, Visual Arts courses

College of Science, Health and Engineering
For Civil Engineering, Health Sciences, Information Technology, Nursing, Occupational Therapy, Paramedic, Physiotherapy, Psychology, Science, Social Work, Speech Pathology courses

For up-to-date information contact the University before making any final decisions regarding your choice of HSC courses.

AGRIBUSINESS
Areas of study: Agribusiness, management, marketing
Course prerequisites: Any 2 units of English (min. standard required)

ARTS
Areas of study: English, history, psychology, sociology
Course prerequisites: Any 2 units of English (min. standard required)

BUSINESS, ACCOUNTING, COMMERCE
Areas of study: Accounting, business, international business, management, marketing, sport management
Course prerequisites: Any 2 units of English (min. standard required)

CIVIL ENGINEERING
ENGINEERING (INDUSTRIAL)
Course prerequisites: Any 2 units of English plus Mathematics (Advanced) or HSC Mathematics Extension 1 or HSC Mathematics Extension 2 (min. standards required)

CREATIVE ARTS
Areas of study: Visual arts
Course prerequisites: Any 2 units of English (min. standard required)

EDUCATION
Areas of study: Primary or secondary
Course prerequisites: Any 2 units of English, any 2 units of mathematics (min. standards required)

HEALTH INFORMATION MANAGEMENT
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)

HEALTH SCIENCES
Areas of study: Health and sustainability, health promotion, human physiology and anatomy, public health, rehabilitation counseling, 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)

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

LAW
Areas of study: Criminology, law
Course prerequisites: Any 2 units of English (min. standard required)

MEDIA AND COMMUNICATION (JOURNALISM)
Areas of study: Journalism
Course prerequisites: Any 2 units of English (min. standard required)

NURSING (PRE-REGISTRATION)
Course prerequisites: Any 2 units of English (min. standard required)
Recommended studies: One of Biology, Chemistry, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE) or Physics

OCCUPATIONAL THERAPY
Course prerequisites: Any 2 units of English (min. standard required)
Recommended studies: One of Biology, Chemistry, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE) or Physics

PARAMEDIC PRACTICE
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)

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)

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

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

SCIENCE
Areas of study: Biomedical science, pharmaceutical chemistry
Course prerequisites: Any 2 units of English, any 2 units of mathematics (min. standards required)
Recommended studies: One of Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography, Information Processes and Technology, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE) or Physics

Agricultural Sciences*
Animal and Veterinary Biosciences*
Biological Sciences*
Science (Wildlife and Conservation Biology)*

Course prerequisites: Any 2 units of English (min. standard required)
* First year only at Albury-Wodonga. Students transfer to Bundoora (Melbourne) from second year.

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

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)

* (PDHPE) or Physics
* (Advanced), Personal Development, Health and Physical Education
* One of Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography, Information Processes and Technology, Mathematics (Advanced), Personal Development, Health and Physical Education (PDHPE) or Physics
* (PDHPE) or Physics
* (Advanced), Personal Development, Health and Physical Education
* (PDHPE) or Physics (min. standards required)
* (PDHPE) or Physics
* (Advanced), Personal Development, Health and Physical Education
* (PDHPE) or Physics (min. standards required)
* (PDHPE) or Physics
* (Advanced), Personal Development, Health and Physical Education
* (PDHPE) or Physics (min. standards required)
STEPS TO UNI FOR YEAR 10 STUDENTS

MACLEAY COLLEGE

**MACQUARIE UNIVERSITY**

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**ADVERTISING & MEDIA**

**ADVERTISING & MEDIA (DIP)**

- **Areas of study:** Creative process, digital design, campaign thinking, copywriting, foundations of marketing, media landscape, research and insight, social media strategy, the business of advertising, video production, positive psychology
- **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 fundamentals, digital business communications, foundations of marketing, business finance, project management, leadership and change management, business law, entrepreneurship, research and insight, positive psychology
- **Recommended studies:** Any 2 units of English, Mathematics (Advanced)
- **Additional selection criteria:** Interview

**BUSINESS MANAGEMENT (DIP)**

- **Areas of study:** Business fundamentals, foundations of marketing, business law, business accounting, digital business communications, research and insight, entrepreneurship, positive psychology
- **Recommended studies:** Any 2 units of English, Mathematics (Advanced)
- **Additional selection criteria:** Interview

**DIgITAL MEDIA**

**DIGITAL MEDIA (DIP)**

- **Areas of study:** Design thinking, positive psychology, digital design, video production, digital visualisation, ICT, interaction design, story and narrative, research and insight, social media strategy with specialisation options in digital marketing, visual content creation and interactive design
- **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 & ethics, media law, reporting government, radio, news research, professional news practice, video and mobile journalism (mobile journalism)
- **Recommended studies:** Any 2 units of English
- **Additional selection criteria:** Interview

**MARKETING**

**MARKETING (DIP)**

- **Areas of study:** Consumer behaviour, entrepreneurship, foundations of marketing, research and insight, sales and negotiation, digital business communications, positive psychology
- **Recommended studies:** Mathematics (Advanced), any 2 units of English
- **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

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**Macleay College**

**Macleay.college**

**Enquiries**

by post: Admissions Office
Macleay College
Level 2, 28 Foveaux Street
Surry Hills NSW 2010

by phone: 1300 939 888
email: study@macleay.edu.au

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**MACQUARIE UNIVERSITY**

**mq.edu.au**

CRICOS provider number 00899G

**Enquiries**

by post: Future Students, Level 2
BD Building, 4 Research Park Drive
Macquarie University
North Ryde NSW 2109

by phone: (02) 9850 6787

email: study.mq.edu.au

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**READ THIS FIRST**

- The University recognises performance in relevant subjects. See Macquarie Entry Navigator for information (mq.edu.au/study/macquarie-entry-navigator).
- There are no course prerequisites for entry into degree courses at Macquarie University.
- 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.

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**BUSINESS ANALYTICS**

- **Areas of study:** Accounting, business law, economics, human resource management, management, insurance, mathematics, probability, risk management, statistics
- **Assumed knowledge:** HSC Mathematics Extension 1
- **Recommended studies:** HSC Mathematics Extension 2

**ARTS**

- **Areas of study:** Ancient history; anthropology, arts management, Chinese studies, Chinese/English translation and interpreting, creative writing, criminology, creative studies, dance and performance, development studies, English, English as a foreign language, environmental humanities, French and Francophone studies, gender studies, geography, German studies, human geography, Indigenous studies, interactivity and games, international communication, international relations, Italian studies, Japanese studies, Linguistics, media: culture and communication, modern Greek studies, modern history, music, philosophy, Polish studies, political economy, politics, psychological science, Russian studies, society and culture, sociology and social policy, Spanish and Latin American studies

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**BIOLOGY**

- **Areas of study:** Biodiversity and conservation animal sciences, biodiversity and conservation biology, cell and molecular biology, ecology, environmental biology, genetics, microbiology, physiology, plant sciences
- **Recommended studies:** Mathematics (Advanced) plus one of biology, chemistry or investigating science

**BUSINESS ADMINISTRATION**

- **Areas of study:** Accounting, business law, economics, human resource management, international business, marketing, strategic management
- **Assumed knowledge:** Mathematics Standard 2

**BIOLOGY**

- **Areas of study:** Biodiversity and conservation animal sciences, biodiversity and conservation biology, cell and molecular biology, ecology, environmental biology, genetics, microbiology, physiology, plant sciences
- **Recommended studies:** Mathematics (Advanced) plus one of biology, chemistry or investigating science

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**ASSUMED KNOWLEDGE**

- HSC Mathematics Extension 1
- HSC Mathematics Extension 2
- Additional units of English
- Any 2 units of English, Design and Technology, Visual Arts, Mathematics (Advanced), Business Studies

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**Additional Notes**

- 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)

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**BUSINESS**

- **Areas of study:** Business forecasting, business information systems, environmental biology, genetics, microbiology, physiology, plant sciences
- **Recommended studies:** Mathematics (Advanced)

**BUSINESS MANAGEMENT**

- **Areas of study:** Business fundamentals, foundations of marketing, business finance, project management, entrepreneurship, research and insight, positive psychology
- **Recommended studies:** Any 2 units of English, Mathematics (Advanced)
- **Additional selection criteria:** Interview

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**BUSINESS MANAGEMENT (DIP)**

- **Areas of study:** Consumer behaviour, entrepreneurship, foundations of marketing, research and insight, sales and negotiation, digital business communications, positive psychology
- **Recommended studies:** Mathematics (Advanced), any 2 units of English
- **Additional selection criteria:** Interview

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**BUSINESS ACCOUNTING**

- **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

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**ACTUARIAL STUDIES**

- **Areas of study:** Actuarial science, economics, finance, financial management, insurance, mathematics, probability, risk management, statistics
- **Assumed knowledge:** HSC Mathematics Extension 1
- **Recommended studies:** HSC Mathematics Extension 2

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**ANCIENT HISTORY**

- **Areas of study:** Ancient languages, archaeology, Egypt and Near East, Greece, Rome and late antiquity
- **Recommended studies:** Ancient history

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**APPLIED FINANCE**

- **Areas of study:** Corporate finance, financial economics, financial management, financial models, investments, probability, quantitative analysis, risk management, statistics
- **Assumed knowledge:** Mathematics (Advanced)
- **Recommended studies:** HSC Mathematics Extension 1

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**ARCHAEOLOGY**

- **Areas of study:** Ancient history, ancient languages, archaeology, earth science, geology, human biology, modern history, palaeontology, spatial information science
- **Recommended studies:** Ancient history, For earth science, geology, human biology, palaeontology and spatial information science, refer to ‘Science’.

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**Arts**

- **Areas of study:** Ancient history; anthropology, arts management, Chinese studies, Chinese/English translation and interpreting, creative writing, criminology, creative studies, dance and performance, development studies, English, English as a foreign language, environmental humanities, French and Francophone studies, gender studies, geography, German studies, human geography, Indigenous studies, interactivity and games, international communication, international relations, Italian studies, Japanese studies, Linguistics, media: culture and communication, modern Greek studies, modern history, music, philosophy, Polish studies, political economy, politics, psychological science, Russian studies, society and culture, sociology and social policy, Spanish and Latin American studies

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**Biodiversity and Conservation**

- **Areas of study:** Biodiversity and conservation animal sciences, biodiversity and conservation biology, cell and molecular biology, ecology, environmental biology, genetics, microbiology, physiology, plant sciences
- **Recommended studies:** Mathematics (Advanced) plus one of biology, chemistry or investigating science

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**Business Administration**

- **Areas of study:** Accounting, business law, economics, human resource management, international business, marketing, strategic management
- **Assumed knowledge:** Mathematics Standard 2

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**Business Analytics**

- **Areas of study:** Business forecasting, business information systems, data analytics, database management, risk management, social networks, statistics
- **Assumed knowledge:** Mathematics (Advanced)
- **Recommended studies:** HSC Mathematics Extension 1

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**Visual Arts, Mathematics (Advanced), Business Studies**

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**Business Law, Business Accounting, Digital Business Communications, Copywriting, Foundations of Marketing, Media Landscape, Research and Insight, Sales and Negotiation, Digital Business**

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**Areas of study:** Business fundamentals, foundations of marketing, research and insight, sales and negotiation, digital business communications, positive psychology

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**Recommended studies:** Any 2 units of English, Design and Technology, Visual Arts, Mathematics (Advanced), Business Studies

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**Additional selection criteria:** Interview

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**Interview**

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**Business Forecasting, Business Information Systems, Environmental Biology, Genetics, Microbiology, Physiology, Plant Sciences**

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**Recommended studies:** Mathematics (Advanced) plus one of biology, chemistry or investigating science

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**Additional Notes**

- 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)

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**CONTACT MACQUARIE UNIVERSITY**

**by post:** Future Students, Level 2
BD Building, 4 Research Park Drive
Macquarie University
North Ryde NSW 2109

**by phone:** (02) 9850 6787

**email:** study.mq.edu.au

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**Enquiries**

in person: Level 2, 28 Foveaux Street
Surry Hills NSW 2010

**by phone:** 1300 939 888

**email:** study@macleay.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.**
EDUCATION

Early Childhood Education

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 chosen teaching areas (in particular, for mathematics teaching areas: Mathematics (Advanced), HSC Mathematics Extension 1 or HSC Mathematics Extension 2 and for biology, chemistry and physics teaching areas: Biology, Chemistry and Physics respectively)

ENGINEERING (HONOURS)

Areas of study: Electrical engineering, electronics engineering, mechanical engineering, mechatronic engineering, software engineering, telecommunications engineering

Subject prerequisites: Mathematics (Advanced) (Band 4) or HSC Mathematics Extension 1 (Band E2) or HSC Mathematics Extension 2

Recommended studies: Physics and either HSC Mathematics Extension 1 or HSC Mathematics Extension 2

ENVIRONMENT

Areas of study: Biology, climate science, environmental earth science, environmental management, spatial information science

Recommended studies: A combination of Biology, Chemistry, Earth and Environmental Science, Geography, Geomatics, Mathematics (Advanced)

GLOBAL BUSINESS

Areas of study: Entrepreneurship, global business environment, international business operations, international business strategy, macroeconomics, management, trade law. A major in either an Asian or European language is also an integral part of this course

Assumed knowledge: Mathematics Standard 2

Recommended studies: Mathematics (Advanced)

HELLENIC STUDIES

Areas of study: Ancient Greek studies, Byzantine studies, languages, modern Greek studies

HUMAN SCIENCES

Areas of study: Cognitive and brain sciences, health studies, human movement, public health

Recommended studies: Mathematics (Advanced)

INFORMATION TECHNOLOGY

Business Information Systems

Areas of study: Business analysis, data analytics, databases, data management, computer systems, system analysis

Assumed knowledge: Mathematics Standard 2

Recommended studies: Information Processes and Technology

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: Software Design and Development plus HSC Mathematics Extension 1 or HSC Mathematics Extension 2

INTERNATIONAL STUDIES

Areas of study: Cultural studies, intercultural communication, languages (Chinese, Croatian, French, German, Italian, Japanese, modern Greek, Polish, Russian, Spanish)

LAW

Areas of study: Corporate and commercial law; criminality; environmental law and management; international law and global governance; media, technology and the law; public policy, law and governance; social justice

MARINE SCIENCE

Areas of study: Biology, earth sciences, environmental chemistry, marine biology, marine environment, marine geoscience, oceanography, research methodology

Recommended studies: Mathematics (Advanced) plus one of Earth and Environmental Science, Biology, Chemistry or Investigating Science

MARKETING AND MEDIA

Areas of study: Australian media and media cultures, brand management, digital media, digital production, marketing research, marketing strategy, marketing theory; public relations and advertising, social media and marketing; technology

Assumed knowledge: Mathematics Standard 2

Recommended studies: Mathematics (Advanced)

MEDIA

Areas of study: Digital design, journalism and non-fiction writing, media studies, public relations and social media, radio, digital audio and broadcast production, screen practice and production, screen, sound, performance

MEDICAL SCIENCES

Areas of study: Biomedicine, medicinal chemistry, pharmacology, anatomy, behavioural science, biochemistry, molecular biology, pathology, pharmacology, physiology, medical research

Recommended studies: HSC Mathematics Extension 1, Chemistry

PLANNING

Areas of study: Development, geographic information science, human geography, resource and environmental management, society and culture, urban planning

Recommended studies: One of Geography, Earth and Environmental Science or Society and Culture

PROFESSIONAL ACCOUNTING

Areas of study: Auditing, business advisory, business information systems and processes, business law, financial accounting, financial management, management accounting

Assumed knowledge: Mathematics Standard 2

Recommended studies: Mathematics (Advanced)

PSYCHOLOGY

Recommended studies: For psychology: Mathematics (Advanced)
STEPS TO UNI FOR YEAR 10 STUDENTS

SCIENCE ADVANCED

- Applied Mathematics
  Subject prerequisites: HSC Mathematics Extension 1 (Band E3) or HSC Mathematics Extension 2
- Astronomy and Astrophysics
  Recommended studies: Physics, Advanced
- Biology
  Recommended studies: Mathematics (Advanced) plus Biology, Chemistry or Investigating Science
- Chemical and Biomolecular Sciences
  Recommended studies: Mathematics (Advanced) plus Chemistry or Investigating Science
- Geology
  Recommended studies: Chemistry, Earth and Environmental Science
- Geophysics
  Recommended studies: Physics, Mathematics (Advanced)
- Pure Mathematics
  Subject prerequisites: HSC Mathematics Extension 1 (Band E3) or HSC Mathematics Extension 2
- Software Technology
  Recommended studies: HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus Software Design and Development or Information Processes and Technology
- Statistics
  Subject prerequisites: HSC Mathematics Extension 1 (Band E3) or HSC Mathematics Extension 2

SPEECH, HEARING AND LANGUAGE SCIENCES*

- Areas of study: Anatomy and physiology of speech and hearing, language sciences (linguistics) with a focus on speech and hearing science (hearing first and second language acquisition, language and the brain, language and society, phonetics and phonology, speech and language disorders, syntax)
  * This degree does not lead to registration as a speech pathologist or audiologist.

DOUBLE DEGREES

At Macquarie, you can combine a number of different study options to create a Double Degree. For example, Law and Environment, Applied Finance and Actuarial Studies, Engineering and Arts, Education and Arts or Science. To explore your double degree study options, visit courses.mq.edu.au.

SOcial sciences

- Areas of study: Anthropology, criminology, development studies and culture change, environmental humanities, gender studies, human geography, Indigenous studies, international relations, philosophy, politics, political economy and social policy, psychological science, sociolinguistics, sociology

FINe arts

- Areas of study: Art history and theory, ceramics, drawing, painting, photography, printmaking, sculpture
- Assumed knowledge: Visual Arts
- Additional selection criteria: Portfolio, interview

MIT SYDNEY

mit.edu.au
CRICOS provider numbers 01545C, 03245K (NSW)

Enquiries

by post: MIT Sydney
154–158 Sussex Street
Sydney NSW 2000

in person: 154–158 Sussex Street
Sydney NSW 2000

telephone: (02) 8267 1400
fax: (02) 8267 1499
email: info.sydney@mit.edu.au

SAE CREATIVE MEDIA INSTITUTE

sae.edu.au
CRICOS provider number 00312F

Enquiries

Sydney campus
by post: SAE Creative Media Institute
39 Regent Street
Chippendale NSW 2008

in person: 39 Regent Street
Chippendale NSW 2008

telephone: freecall 1800 SAE EDU
or (02) 8241 5200
email: sydney@sae.edu.au

Byron Bay campus
by post: SAE Creative Media Institute
373–391 Ewingsdale Road
Byron Bay NSW 2481

in person: 373–391 Ewingsdale Road
Byron Bay NSW 2481

telephone: freecall 1800 SAE EDU
or (02) 8639 6000
email: byronbay@sae.edu.au

NATIONAL ART SCHOOL

nas.edu.au
CRICOS provider number 03197B

Enquiries

by post: National Art School
Forbes Street
Darlinghurst NSW 2010

in person: Forbes Street
Darlinghurst NSW 2010

telephone: (02) 9339 8691
email: student.services@nas.edu.au

READ THIS FIRST

- In addition to completion of the HSC (or equivalent), admission requirements 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

ANIMATION

- Additional selection criteria: Interview
- 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
- 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 3D animation; development of user-friendly animation rigs, principles of character animation: posing, motion studies, body mechanics and facial animation

Visual Effects

- Areas of study: Computer modelling, lighting, rendering, texturing, intermediates and advanced compositing, match moving, particle systems, dynamic simulations and colour grading

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

**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.**
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. Production
Areas of study: Recording, 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, producing, storytelling, understanding the roles and responsibilities of film production crews.

DESIGN
Additional selection criteria: Interview
Graphic Design
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
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
Areas of study: Colour grading, compositing, editing, film fundamentals, operation of film equipment, storytelling, understanding the roles and responsibilities of film production crews.

SOUTHERN CROSS UNIVERSITY
Sócitereau CRICOS provider number 01241G

Enquiries
All campuses
by post: Future Student Team
Southern Cross University
PO Box 167
Lismore NSW 2480

In person
Lismore campus
Military Road
East Lismore NSW 2480
Coffs Harbour campus
Hobbin Drive
Coffs Harbour NSW 2450
Gold Coast campus
Southern Cross Drive
Bilinga QLD 4225

Recommended studies:
HSC English Extension 1 or HSC English (Advanced)
Recommended studies: Business Studies, Economics, Information Processes and Technology, Legal Studies

Areas of study: Business accounting, finance, law
Recommended studies: Business Studies, Economics, Information Processes and Technology, Legal Studies

Additional selection criteria: Interview, portfolio

Accounting
Areas of study: Accounting, finance, law
Recommended studies: Business Studies, Economics, Information Processes and Technology, Legal Studies

Areas of study: Critical and creative thinking, design and layout, design for content management systems, dynamic development, interaction design, interface design, principles of design.

Recommended studies:
HSC English Extension 1 or HSC English (Advanced)
Recommended studies: Business Studies, Economics, Information Processes and Technology, Legal Studies

Areas of study: Business accounting, finance, law
Recommended studies: Business Studies, Economics, Information Processes and Technology, Legal Studies

Additional selection criteria: Interview, portfolio

Areas of study: Accounting, finance, economics, marketing, statistics, management

Areas of study: Critical and creative thinking, design and layout, design for content management systems, dynamic development, interaction design, interface design, principles of design.

Additionally, students can enrol in equivalent units to acquire this knowledge.

Areas of study: Colour grading, compositing, editing, film fundamentals, operation of film equipment, storytelling, understanding the roles and responsibilities of film production crews.

GAMES DEVELOPMENT
Additional selection criteria: Interview
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, programmable solutions, visual communication techniques, writing Technical Design Documents (TDD).

Areas of study: Advanced game design, foundations of 3D graphics, game audio, games as media, level development, psychology of play.
Games Programming (Assoc Deg)
Areas of study: Applied mathematics, game engine architecture, games technology, programming, tools development.

ENVIROMENTAL SCIENCE
Areas of study: Environmental science, environmental studies, environmental protection, environmental management, environmental policy, environmental science, human geography, Indigenous studies, international studies, law and justice, media studies, music, physical geography, politics, psychology, society and culture, tourism, visual arts, writing.

Assumed knowledge: English (Advanced)

COASTAL SYSTEMS ENGINEERING
Areas of study: Coastal engineering and management, floodplain engineering and management, project management, hydraulic engineering, water and wastewater engineering, engineering geophysics and hydrology.

Recommended studies: Mathematics (Advanced) plus Chemistry and/or Physics

ENGINNEERING
Areas of study: Engineering computing, electrical engineering, mechanical engineering, physics, engineering materials, mathematics.

Assumed knowledge: HSC Mathematics Extension 1. If not, students can enrol in equivalent units to acquire this knowledge.

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

Areas of study: Critical and creative thinking, design and layout, design for content management systems, dynamic development, interaction design, interface design, principles of design.

Additionally, students can enrol in equivalent units to acquire this knowledge.

Areas of study: Colour grading, compositing, editing, film fundamentals, operation of film equipment, storytelling, understanding the roles and responsibilities of film production crews.

GAMES DEVELOPMENT
Additional selection criteria: Interview
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, programmable solutions, visual communication techniques, writing Technical Design Documents (TDD).

Areas of study: Advanced game design, foundations of 3D graphics, game audio, games as media, level development, psychology of play.
Games Programming (Assoc Deg)
Areas of study: Applied mathematics, game engine architecture, games technology, programming, tools development.

ENVIROMENTAL SCIENCE
Areas of study: Environmental science, environmental studies, environmental protection, environmental management, environmental policy, environmental science, human geography, Indigenous studies, international studies, law and justice, media studies, music, physical geography, politics, psychology, society and culture, tourism, visual arts, writing.

Assumed knowledge: English (Advanced)

COASTAL SYSTEMS ENGINEERING
Areas of study: Coastal engineering and management, floodplain engineering and management, project management, hydraulic engineering, water and wastewater engineering, engineering geophysics and hydrology.

Recommended studies: Mathematics (Advanced) plus Chemistry and/or Physics

ENGINNEERING
Areas of study: Engineering computing, electrical engineering, mechanical engineering, physics, engineering materials, mathematics.

Assumed knowledge: HSC Mathematics Extension 1. If not, students can enrol in equivalent units to acquire this knowledge.

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

Areas of study: Critical and creative thinking, design and layout, design for content management systems, dynamic development, interaction design, interface design, principles of design.

Additionally, students can enrol in equivalent units to acquire this knowledge.

Areas of study: Colour grading, compositing, editing, film fundamentals, operation of film equipment, storytelling, understanding the roles and responsibilities of film production crews.
STEPS TO UNI FOR YEAR 10 STUDENTS

**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

**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)

**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)

**HEALTH (ASSOC DEG)**

**Recommended studies:** Biology and/or Chemistry

**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

**INDIGENOUS KNOWLEDGE**

Areas of study: Indigenous knowledge and research, community and land management, Aboriginal health care.

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

**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

**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

**LAW (ASSOC DEG)**

Areas of study: Conveyancing

**LAW (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.

**LEGAL AND JUSTICE STUDIES**

Areas of study: Conveyancing, Australian politics, legal systems and processes.

**MARINE SCIENCE AND MANAGEMENT**

Areas of study: Biology, chemistry, coastal marine ecosystems, ecology, environmental issues.

**Recommended studies:** Biology and/or Chemistry, Mathematics (Advanced)

**MECHANICAL ENGINEERING**

Areas of study: Applied mechanics, dynamics, fluid mechanics, manufacturing, materials, thermodynamics.

**Recommended studies:** Chemistry and/or Physics, Mathematics (Advanced)

**MEDICAL ENGINEERING**

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:** HSC English Extension 1 or HSC English Extension 2

**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 2.

**Additional selection criteria:** For the performance and songwriting/composition audition streams: Audition/interview.

**NURSING**

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

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

**OCCUPATIONAL THERAPY**

Areas of study: Biomedical science, professional areas, social sciences.

**Recommended studies:** Biology

**PEDORTHICS**

Areas of study: Footwear design and production, lower limb function, orthoses and bracing manufacture.

**Recommended studies:** Biology, Chemistry, Mathematics (Advanced)

**PODIATRY**

Areas of study: Allied health studies, anatomy and physiology, gait biomechanics, lower limb medicine.

**Recommended studies:** Biology, Chemistry, Mathematics (Advanced)

**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

**SCIENCE**

Areas of study: Biology, engineering, environmental chemistry, human biology, information technology, mathematics, psychology.

**Recommended studies:** Biology, Chemistry, Mathematics (Advanced)

**SCIENCE (ASSOC DEG)**

**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.

**SPÉECH 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).

**TURISMO 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/Laws
- Creative writing
- Legal and Justice Studies/Laws
- Environmental Science/Laws
- Mathematics/Laws
- Psychology/Laws
- Social Science/Laws
- Sport and Exercise Science/Laws

**EDUCATION/TEACHING (COMBINED DEGREES)**

- Arts/Education (Primary)
- Arts/Education (Primary/Early Childhood)
- Arts/Education (Primary/Secondary)
- Arts/Education (Secondary)
- Technology/Education (Secondary)
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
- **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)

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

### READ THIS FIRST
- Torrens University Australia (TUA) offers a range of career programs in Business, Hospitality, Design, Health, Nursing, and 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.

### BUSINESS
- **Event Management**
- **Marketing**
- **Public Relations and Communications**
- **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
Nursing Courses

**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 (EN)

Recommended studies: Biology

**Billy Blue College of Design**

**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

**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

**Design (DIP)**

Areas of study: Branded fashion, communication design, design fundamentals, digital media, interior design, moving image and 3D design and production

Recommended studies: Visual Arts

**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

**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

**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

**Double Degree**

If you intend to study this double degree check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the college for further details.

Business

**Marketing (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, identifying consumer behaviour, digital marketing trends and development, organisational creativity and innovation, strategic marketing planning, understanding people and organisations

**Health Courses**

**Health Science**

Areas of study: Aesthetics, aesthetic electrotherapy, aesthetic practice with technology, beauty and spa practice, foundations of aesthetic manual aesthetic techniques

Additional selection criteria: Applicants must be 16 years or older at the course commencement date. Applicants must also be able to demonstrate the ability to undertake study at the required level.

**Health & Wellbeing (DIP)**

Areas of study: Body systems and disease, understanding health, disease prevention, human nutrition, active lifestyle promotion, health promotion, corporate health, leisure, sport and fulfilling lives for older people, social and emotional wellbeing

Recommended studies: Health and Physical Education, Nutrition

**Beauty and Spa Practice (DIP)**

Areas of study: Aesthetic electrotherapy, aesthetic practice with technology, beauty and spa practice, foundations of aesthetic manual aesthetic techniques

Recommended studies: Any 2 units of science

**Beauty and Spa Practice (DIP)**

Areas of study: Aesthetic electrotherapy, aesthetic practice with technology, beauty and spa practice, foundations of aesthetic manual aesthetic techniques

Recommended studies: Any 2 units of science

**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

**Commercial Cookery**

**Culinary Management (Assoc Deg)**

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus any 2 units of a language and business

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)**

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus any 2 units of a language

**Business (DIP)**

Hospitality Management

Tourism Management

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus any 2 units of language

**Creative Technologies (Game Art)**

Areas of study: Animation, asset creation, game principles, game studies

Recommended studies: Design 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, Visual Design (not an ATAR course), 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: Hospitality management, leadership, business, conferences, event management, hotel operations, management, resort management

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus any 2 units of a language and business

**Creative Technologies (Game Art)**

Areas of study: Animation, asset creation, game principles, game studies

Recommended studies: Design 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, Visual Design (not an ATAR course), Information Processes and Technology, Software Design and Development, Mathematics (Advanced), Physics

**William Blue College of Hospitality Management**

**Business**

**Business (Assoc Deg)**

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus any 2 units of language

**Business (DIP)**

Hospitality Management

Tourism Management

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus any 2 units of language

**Culinary Management (Assoc Deg)**

Commercial Cookery

Recommended studies: Hospitality Examination (Kitchen Operations and Cookery) or Hospitality Examination (Food and Beverage) plus Food Technology
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/applications/apply-now/alternative-entry/bonus-points.

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

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).

APPLIED 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).

ARCHITECTURE
Areas of study: Architecture design, built design, landscape architecture, interior architecture.

ARTS
Areas of study: Accounting, advertising, applied economics, applied statistics, architecture history and theory, communication studies, community development, community studies, counselling studies, creative writing, cultural heritage practice, digital design and production, English language and literature, event management, financial services, governance and policy, graphic design studio, human nutrition, Indigenous studies, information systems, integrated environmental management, international studies, journalism, justice studies, language studies, law and society, law and technology, literary studies, management, managing human resources, marketing, media and public affairs, media arts, museum studies, national security, politics and government, politics and international relations, psychology, public relations, service management, sociology and social policy, sport business, sport management, storytelling, teaching English to speakers of other languages (TESOL), tourism management, web design and production.

BIOMEDICAL SCIENCE
Areas of study: Human biology: chemical and molecular principles, human biology: from cells to organism.
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.

BUSINESS ADMINISTRATION
Areas of study: Business administration.
Recommended studies: ACT: Mathematical Methods T (Major), Mathematics (Advanced), NSW: Mathematics (Advanced).

BUSINESS INFORMATICS
Areas of study: Business informatics, information systems.

BUSINESS INFORMATICS (DIP)
Areas of study: Business informatics, information systems.

COMMERCIAL LAW
Areas of study: Auditing, business economics, banking and financial services, financial planning.
Recommended studies: ACT: Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: Mathematics (Advanced), Mathematics (Advanced).

COMMUNICATION AND MEDIA
Areas of study: Corporates and public communication, journalism, marketing communication, media and public affairs, public relations, sports media.

COMMUNICATION (DIP)
Areas of study: Advertising, communication, public relations.

CREATIVE WRITING
Areas of study: Arts, creative writing.

CULTURAL HERITAGE
Areas of study: Conservation, cultural heritage practice, heritage studies, museum studies.

DESIGN
Areas of study: Design, industrial design, interaction design, visual communication design.
Recommended studies: ACT: Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: Mathematics (Advanced), English (Advanced).

DIGITAL MEDIA
Areas of study: Arts, digital media.

EDUCATION
Areas of study: Early childhood, key learning areas, primary curriculum and pedagogy, teacher professional practice.
Recommended studies: ACT: English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: English (Advanced), Mathematics (Advanced).

ENTREPRENEURSHIP AND INNOVATION
Areas of study: Entrepreneurial management.

ENVIRONMENTAL SCIENCE
Areas of study: Applied ecology, coastal marine science, earth science, ecological conservation, environmental assessment, environmental chemistry, environmental genetics, environmental management, integrated environmental management, sustainability, water science.
Recommended studies: ACT: Mathematical Methods T (Major), Biology T (Major) and/or Chemistry T (Major) NSW: Mathematics (Advanced), Biology and/or Chemistry.

EVENT AND TOURISM MANAGEMENT
Areas of study: Event and tourism management.

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.
A National Police Check and Working with Vulnerable People clearance is required for placement units.

FILM PRODUCTION
Areas of study: Arts, film production.

FORENSIC STUDIES
Areas of study: Forensic biology, forensic chemistry.
Recommended studies: ACT: Biology T (Major) and/or Chemistry T (Major), Mathematical Methods T (Major) NSW: Biology and/or Chemistry, Mathematics (Advanced).

GLOBAL STUDIES
Areas of study: Arts, global studies.

HEALTH STUDIES
Areas of study: Health studies.

HEALTH SCIENCE
Areas of study: Health science.

HUMAN NUTRITION
Areas of study: Human nutrition.
Recommended studies: ACT: Chemistry T (Major), Mathematical Methods T (Major) NSW: Chemistry, Mathematics (Advanced).

HUMAN RESOURCE MANAGEMENT
Areas of study: Human resource management.
Recommended studies: ACT: English T (Major), Mathematical Methods T (Major) NSW: English (Advanced), Mathematics (Advanced).

INFORMATION TECHNOLOGY
Areas of study: Information systems, software engineering.
Recommended studies: ACT: Mathematical Methods T (Major)/Specialist Mathematics T (Major), English T (Major) NSW: Mathematics (Advanced), English (Advanced).

INFORMATION TECHNOLOGY (DIP)
Areas of study: Information systems, software engineering.

JOURNALISM
Areas of study: Communication studies, journalism.

JUSTICE STUDIES
Areas of study: Justice studies.

LAW
LAW (COMBINED)
The University of Canberra offers a range of combined courses with Law. For more information, visit www.canberra.edu.au/Requirements: For Law (Com): None. For the other areas of study: Refer to the relevant entry requirements.

MANAGEMENT
Areas of study: Entrepreneurial management, governance and policy, government and politics, management, public sector management.

MARKETING
Areas of study: Marketing management.
STEPS TO UNI FOR YEAR 10 STUDENTS

MEDICAL RADIATION SCIENCE
Areas of study: Medical imaging, medical radiation science
Recommended studies: ACT: Biology T (Major), Physics T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: Biology, Physics, Mathematics (Advanced)

MEDICAL SCIENCE
Areas of study: Biological chemistry, human biology: from cells to organism
Recommended studies: ACT: Chemistry T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: Chemistry, Mathematics (Advanced)

MEDICAL RADIOLOGY SCIENCE
Areas of study: Medical imaging, medical radiation science
Recommended studies: ACT: Biology T (Major), Physics T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: Biology, Physics, Mathematics (Advanced)

MIDWIFERY
Areas of study: Midwifery practice theory, midwifery professional theory, midwifery 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)
Additional selection criteria: Supplementary application form, CV
All students enrolled in B Midwifery are required to undergo a National Police Check prior to undertaking clinical experience. All students are also required to present an immunisation history and first-aid certificates, including CPR.

NETWORK AND SOFTWARE ENGINEERING (DIP)
Areas of study: Network and software engineering

PHILOSOPHY
Areas of study: Philosophy, practical philosophy
Recommended studies: ACT: English T (Major), English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) NSW: English, Ancient History, English (Advanced), English (Major)

PHYSIOThERAPY
Areas of study: Physiotherapy interventions, physiotherapy practice
Recommended studies: ACT: Mathematical Methods T (Major) plus Biology T (Major), Psychological Science T (Major) plus Psychology T (Major) NSW: Mathematics (Advanced) plus Psychology T (Major), Sociology T (Major)

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: Applied ecology, applied statistics, biology, chemistry, ecological conservation, environmental assessment, human biology: chemical and molecular principles, human biology: from cells to organism, human nutrition, information systems, integrated environmental management, psychological science, software engineering, sports science, water science
Recommended studies: ACT: Biology T, English T (Major), Mathematical Methods T (Major)/Specialist Mathematics T (Major) plus Chemistry T (Major) Physics T (Major) NSW: Biology, English (Advanced), Mathematics (Advanced) plus Chemistry or Physics

SERVICE MANAGEMENT
Areas of study: Service management

SOFTWARE ENGINEERING
Areas of study: Software engineering
Recommended studies: ACT: Mathematical Methods T (Major) NSW: Mathematics (Advanced)

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

A National Police Check may be required for practical placement units.

VISON SCIENCE
Areas of study: Vision science

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.

university of new england
une.edu.au
CRICOS provider number 00003G

enquiries
by post: Student Success University of New England Armidale NSW 2351
in person: Student Success Dixson Library Learning Commons University of New England Armidale NSW 2351
telephone: freecall 1800 818 865
email: via une.edu.au/askune

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.

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: Agribusiness, accounting, 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: Agriculture, agricultural technology, 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

animal science
Areas of study: Caring and equine science, livestock production, wildlife management
Assumed knowledge: Any 2 units of English, Chemistry, Mathematics (Advanced)
Recommended studies: Education
null
STEPS TO UNI FOR YEAR 10 STUDENTS

**University of Newcastle**

**Accr**

**arts; education; English and writing; film, media and cultural studies; Ancient history; Chinese; creative and performing**

**Areas of study:**

**For all other majors:**

− 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.

READ THIS FIRST

− The University of Newcastle recognises performance in relevant HSC subjects. For information about the University of Newcastle’s Subject Performance Scheme and Year 12 Adjustment Factors Scheme, visit newcastle.edu.au.

− The University of Newcastle offers a number of refresh 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.

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

**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 in sociology and anthropology; violence studies; writing studies.

**Recommended studies:** For psychology studies: Mathematics (Advanced) (For all other majors: English (Advanced)

**BIOMEDICAL SCIENCE**

**Areas of study:** Advanced medical research, anatomy, biochemistry, immunology, industry and education, medical genetics, physiology

**Assumed knowledge:** Mathematics (Advanced), Chemistry, Physics, Biology

**BIOTECHNOLOGY**

**Areas of study:** Biochemistry, biomolecules, laboratory skills in biological systems, molecular genetics, plant cell and molecular biology, statistics for the sciences

**Assumed knowledge:** Mathematics (Advanced), Chemistry

**Recommended studies:** Physics

**BUSINESS**

**Areas of study:** Entrepreneurship and innovation, governance, human resource management, international business, leader ship and management, marketing, policy and political economy, sports management, tourism

**Assumed knowledge:** Mathematics (Advanced)

**COMMERCIAL SCIENCE**

**Areas of study:** Accounting, economics, finance, management science, marketing, risk management, technology

**Assumed knowledge:** Mathematics (Advanced), Physics

**COMMUNICATION**

**Areas of study:** Journalism, media production, multimedia, public relations

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

**COMPUTER SCIENCE**

**Areas of study:** Computer systems and robotics, data science, software development, cyber security

**Assumed knowledge:** Mathematics (Advanced) (Band 5)

**Recommended studies:** HSC Mathematics Extension 1

**CONSTRUCTION MANAGEMENT**

**Areas of study:** Building information modelling, building surveying, communication, construction ecology, construction technology, contract administration, economics, facilities management, finance, health and safety, law, management, procurement, tendering and estimating

**Recommended studies:** Any 2 units of English, Mathematics (Advanced)

**CREATIVE INDUSTRIES**

**Areas of study:** Communication and media, creative and performing arts, design, information technology, music, visual art, imaging technologies, visual art: studio practices, writing and publishing

**Assumed knowledge:** 3 units of English

**Recommended studies:** One or more of English (Advanced), Drama, Design and Technology, Information Processes and Technology, Software Design and Development, Photography, Video and Digital Imaging (not an ATAR course), Visual Arts, any 2 units of music

**DESIGN (ARCHITECTURE)**

**Areas of study:** Architectural history; aesthetics, competition and proportion, architectural site and landscape, clients and their architectural briefs, communication in the built environment, construction and detailing of buildings, construction ecology, construction technology, digital and parametric design processes, history and theory in the built environment, making conceptual and realistic models in our workshop, sustainable design practices.

**Recommended studies:** Any 2 units of English plus Ancient History or Modern History, plus one or more of Visual Arts, Design and Technology, Industrial Technology

**DEVELOPMENT STUDIES**

**Areas of study:** Cultures and citizenship, environmental sustainability, globalisation and economic development, urban and regional development

**EDUCATION**

**Early Childhood and Primary**

**Areas of study:** Aboriginal education, behaviour management, children’s learning and growth across the span of birth to 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 to 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)

**ENGINEERING**

**Chemical**

**Areas of study:** Automatic control, chemical engineering principles, fluid mechanics, green engineering and sustainability processes, heat transfer and design of energy systems, kinetics and reaction engineering, mass transfer and separation processes, process control, particle processing, separations involving solids, liquids, and gases, thermodynamics

**Assumed knowledge:** Mathematics (Advanced) (Band 5), any 2 units of science (Physics or Chemistry preferred)

**Recommended studies:** HSC Mathematics Extension 1 plus Physics or Chemistry

**Civil**

**Areas of study:** Calculus of science and engineering, civil engineering materials, engineering computation, engineering mathematics, fluid mechanics, geomechanics, hydraulics and reinforced concrete design, steel design, stress and finite element methods, structural engineering, surveying, theory of structures, transportation engineering and design, water engineering

**Assumed knowledge:** Mathematics (Advanced) (Band 5)

**Recommended studies:** HSC Mathematics Extension 1 any 2 units of science

**Computer Systems**

**Areas of study:** Advanced computer systems, advanced physics, calculus of science and engineering, computer engineering, electrical engineering, embedded systems, engineering Mathematics, procedural programming, programmable logic design, quantum mechanics and semiconductors, physics, signals and systems

**Assumed knowledge:** Mathematics (Advanced) (Band 5)

**Recommended studies:** HSC Mathematics Extension 1 plus Physics or Chemistry

**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:** HSC Mathematics Extension 1 plus Physics or Chemistry

**Environmental**

**Areas of study:** Calculus of science and engineering, computation principles, environmental biology, environmental Legislation and planning, fluid mechanics, geomechanics, hydrobiological modelling, hydrology, land surface process and management, spatial data systems and remote sensing, water engineering

**Assumed knowledge:** Mathematics (Advanced) (Band 5)

**Recommended studies:** HSC Mathematics Extension 1 plus Physics or Chemistry

**Primaries**

**Areas of study:** Foundations of primary education, how to teach K-6 curriculum, language and literacy development, psychology of learning and teaching and behaviour management

**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: information systems and software design, design technologies, drama, earth and environmental science, economics, English, French, geography, German, health and physical education, language, 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

**The University of Newcastle**

**CRICOS provider number 00109J**

**Enquiries**

**Newcastle campus (Callaghan)**

by post: Student Central Hunter The University of Newcastle University Drive Callaghan NSW 2308

telephone: (02) 4921 5000

email: info@newcastle.edu.au

**Central Coast campus (Ourimbah)**

by post: Student Central Ourimbah The University of Newcastle Central Coast Campus 10 Chittaway Road Ourimbah NSW 2258

telephone: (02) 4348 4000

email: info@newcastle.edu.au

**Port Macquarie campus**

by post: The University of Newcastle

Cnr Oveley Highway and Widderson Street

Port Macquarie NSW 2444

telephone: (02) 4921 5000

email: info@newcastle.edu.au

**Newcastle City campus**

by post: Student Central City

The University of Newcastle University Drive

Callaghan NSW 2308

telephone: (02) 4921 5000

email: info@newcastle.edu.au

REMEMBER TO BOOK A TASTING SESSION AT OUR LOCATION: **Student Central Hunter**

**Ourimbah NSW 2258**

**Widderson Street**

**Newcastle NSW 2300**

**University Drive**

**Callaghan NSW 2308**

**Newcastle City campus**

**Central Coast campus (Ourimbah)**

**Port Macquarie campus**

**Newcastle campus (Callaghan)**

by post: Student Central Hunter

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Callaghan NSW 2308

telephone: (02) 4921 5000

email: info@newcastle.edu.au

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telephone: (02) 4921 5000

email: info@newcastle.edu.au

Ourimbah NSW 2258

Widderson Street

Newcastle NSW 2300

University Drive

Central Coast campus (Ourimbah)

by post: Student Central Ourimbah

The University of Newcastle Central Coast Campus

10 Chittaway Road

Ourimbah NSW 2258

telephone: (02) 4348 4000

email: info@newcastle.edu.au

Read this first

- The University of Newcastle recognises performance in relevant HSC subjects. For information about the University of Newcastle’s Subject Performance Scheme and Year 12 Adjustment Factors Scheme, visit newcastle.edu.au.

- The University of Newcastle offers a number of refresh 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.

- 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, Arts Dip or Assoc Dip is shown in brackets. Subheadings are specialisations within the courses.
Areas of study: Food science and human nutrition

Mining transfer program

Areas of study: Analog and digital communications, electrical engineering design, engineering mathematics, electronics, exercise physiology, health psychology, neurobiology, neuropsychology, physics, psychology, procudural programming

Assumed knowledge: Mathematics (Advanced) (Band 5)

Recommended studies: HSC Mathematics Extension 1 plus Physics or Chemistry

Medical

Areas of study: Analogy and digital communications, electrical engineering design, engineering mathematics, electronics, exercise physiology, health psychology, neurobiology, neuropsychology, physics, psychology, procudural programming

Assumed knowledge: Mathematics (Advanced) (Band 5)

Recommended studies: HSC Mathematics Extension 1 plus Physics or Chemistry

INTEGRATED CARE IN AGING (ASSOC DEG)

Areas of study: Health assessment, health service delivery, leadership and management, physiological function and the ageing life cycle

Additional selection criteria: Successful completion of a minimum of 1.5 credits of transitional aged care or related field, and employed either part-time or full-time in aged care or a related industry such as community and disability services and allied health

LANGUAGES (DIP)

Areas of study: Auslan (Australian sign language), Chinese, French, German, Japanese

LAWS (COMBED)

− Aboriginal Professional Practice/Laws
− Business/Laws
− Commercial/Laws
− Communication/Laws
− Development Studies/Laws
− Innovation and Entrepreneurship/Laws
− Science/Laws
− Social Science/Laws

Assumed knowledge: For Laws: None Not other area of study: Refer to the relevant entry

Recommended studies: For Laws: None Not other area of study: Refer to the relevant entry

MATHEMATICS (ADVANCED)

Areas of study: Complex analysis, differential equations, linear algebra, number theory, numerical methods, statistics, topology

Assumed knowledge: Mathematics (Advanced)

Recommended studies: HSC Mathematics Extension 1

MEDICAL RADIATION SCIENCE (DIAGNOSTIC RADIOGRAPHY)

Areas of study: Anatomy and physiological, clinical education, instrumentation, physics, radiation protection, research

Assumed knowledge: 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

Assumed knowledge: Mathematics (Advanced) or Physics
STEPS TO UNI FOR YEAR 10 STUDENTS

SPEECH PATHOLOGY
Areas of study: Acquired and developmental human communication disorders, audiology, communication disorders of neurological origin, phonological and articulatory disorders, stuttering, swallowing disorders, voice disorders
Recommended studies: Biology, Chemistry, Mathematics (Advanced), English (Advanced)

SURVEYING
Areas of study: Cadastral surveying, geodesy, geotechnical engineering, industrial surveying, photogrammetry, satellite positioning, spatial data systems and remote sensing, surveying techniques and computations, town planning, water engineering
Assumed knowledge: Mathematics (Advanced) (Band 5)
Recommended studies: HSC Mathematics Extension 1, any 2 units of science

TECHNOLOGY (RENEWABLE ENERGY SYSTEMS)
Areas of study: Electrical engineering (quantum mechanics and semiconductor physics, electric machines and power systems, power electronics and renewable energy systems, principles and design of off-grid power systems, automatic control), mechanical engineering (mechanotronic systems, thermofluids, mechanical engineering design, materials science and engineering, renewable energy conversion)
Additional selection criteria: Successful completion of Assoc Deg Engineering (Renewable Energy Technologies) from TAFE NSW (or equivalent)

VISUAL COMMUNICATION
Areas of study: Advertising, animation, graphic design, human-centred design, illustration, information design, motion graphics, multimedia, publishing, transmedia, web design
Recommended studies: One or more of Visual Arts, Design and Technology, Textiles and Design, Industrial Technology

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.

ADVANCED COMPUTING
Areas of study: Computer science, databases, information systems, mathematics, programming, systems analysis
Course prerequisites: Mathematics (Advanced) (Band 4)
Assumed knowledge: HSC Mathematics Extension 1

ARCHITECTURE
Architecture and Environment
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 including Languages
International and Global Studies
Media and Communications
Politics and International Relations

Areas of study: Agricultural and resource economics; American studies; ancient history; anthropology; Arabic language and cultures; archaeology; art history; Asian studies; Australian literature; biblical studies; classical Hebrew; Celtic studies; Chinese studies; criminology cultural studies; digital cultures; diversity studies; econometrics; economic policy; economics; English; European studies; exchange, internship and project units; film studies; financial economics; French and francophone studies; gender studies; German 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.

COMMERCIAL STUDIES
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, biostatistics, 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, psychology.

UNIVERSITY OF SYDNEY
sydney.edu.au
CRICOS provider number 00026A

Enquiries
by post: Admissions, Level 4
Jane Foss Russell Building
The University of Sydney NSW 2006

by email: via sydney.edu.au/ask-domestic
website: sydney.edu.au/future_students

READ THIS FIRST

– A course prerequisite of Mathematics (Advanced) (Band 4) is required for courses in the areas of agriculture, commerce, engineering and advanced computing, medicine, project management, science, pharmacy 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 requirements. Admission requirements 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.

– 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 HSC 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 for the available subjects.

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

All programs are subject to routine review. This may result in slight variations in subject offerings. Program list correct at time of printing.
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: HSC 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 interface 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 or 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 (language, arts, mathematics, health and wellbeing science), professional studies. Assumed knowledge: Depends on first-year subjects chosen. Additional selection criteria: Personal statement.

Primary

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: HSC 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 Dalley Scholars Electrical Flexile first year Mechanical Mechatronic Software Space Engineering major Course prerequisites: Mathematics (Advanced) (Band 4) Assumed knowledge: HSC 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 (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.

MEDICINE (DOUBLEDegree)
- 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.

MUSIC
Areas of study: Composition, contemporary music practice, creative music, digital music and media, improved music, music education, musicology, performance (jazz studies, instrumental 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 I 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.

NURSING
Areas of study: Child and adolescent health, chronic care, community health, health and human biology, health policy, Indigenous health, mental health, palliative care, population health, professional practice.

OCCUPATIONAL THERAPY
Areas of study: Biological sciences, occupational therapy, social sciences, theory and practice. Recommended studies: Biology

PHARMACY
Pharmacy
Pharmacy and Management
Areas of study: Biology, chemistry, medicinal chemistry, pharmaceutical sciences, pharmacaceutics, pharmacology, pharmacy and pharmacy practice. For pharmacy and management: Business Course prerequisites: Mathematics (Advanced) (Band 4). Assumed knowledge: Chemistry. Recommended studies: Biology or Physics

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)

PROJECT MANAGEMENT
Areas of study: Streams: Built environment, civil engineering science or software. Studies include complex project coordination, management data, organisational behaviour, project finance, psychology, quality management, risk management, statistics. Course prerequisites: Mathematics (Advanced) (Band 4). Assumed knowledge: HSC Mathematics Extension 1

PSYCHOLOGY
Areas of study: Psychology
Course prerequisites: Mathematics (Advanced) (Band 4). Assumed knowledge: Depends on first-year subjects chosen

SCIENCE
Areas of study: Agriculture; agroecosystems; anatomy and histology; animal and veterinary bioscience; animal health, disease and welfare; animal production; applied medical science; behavioural sciences; 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; 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) Dalley Scholars including Mathematical Sciences
Course prerequisites: Mathematics (Advanced) (Band 4). Assumed knowledge: HSC 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 horticulture. 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, commercial 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: Chemistry. For other majors: Depends on first-year subjects chosen

Medicine
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; psychology 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

SOCIAL WORK
Areas of study: Social policy, social work, sociology. Assumed knowledge: Depends on first-year subjects chosen
STEPS TO UNI FOR YEAR 10 STUDENTS

SPEECH PATHOLOGY
- Audiology
- Biomedical sciences
- Linguistics and language development
- Neurobiology
- Phonetics
- Psychology
- Research methods
- Sociology
- Specialised areas: aphasia, dysarthria, dyslexia, stuttering

Recommended studies: English (Advanced)

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

VISUAL ARTS
Areas of study: Visual Arts specialisation

Recommended studies: Design and Technology, Visual Arts

Additional selection criteria: Portfolio

COMBINED DEGREES

For combined degrees, see the course prerequisites, assumed knowledge and recommended studies for both degrees.

- Advanced Computing/Commerence
- Advanced Computing/Science
- Advanced Computing/Science (Health)
- Advanced Computing/Science (Medical Science)
- Arts/Law
- Arts/Master of Nursing
- Arts/Doctor of Medicine
- Arts/Social Work
- Commerce/Law
- Design in Architecture (Honours)/Master of Architecture
- Economics/Law
- Education (Secondary): Humanities and Social Sciences/Arts
- Education (Secondary): Mathematics/Science
- Education (Secondary): Science/Science
- Engineering Honours/Arts
- Engineering Honours/Commerce
- Engineering Honours/Law
- Engineering Honours/Project Management
- Engineering Honours/Science
- Engineering Honours/Science (Health)
- Engineering Honours/Science (Medical Science)
- Engineering Honours (Civil)/Design in Architecture
- Science/Law
- 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

ADVANCED SCIENCE

This is not a standalone degree. It may be taken in conjunction with:

- Arts
- Commerce
- Design Computing
- Economics
- Science
- Visual Arts

ADVANCED SCIENCE (COMBINED)

For combined degrees, see the course prerequisites, assumed knowledge and recommended studies for both degrees.

- Advanced Computing/Commerence
- Advanced Computing/Science
- Advanced Computing/Science (Health)
- Advanced Computing/Science (Medical Science)
- Arts/Law
- Arts/Master of Nursing
- Arts/Doctor of Medicine
- Arts/Social Work
- Commerce/Law
- Design in Architecture (Honours)/Master of Architecture
- Economics/Law
- Education (Secondary): Humanities and Social Sciences/Arts
- Education (Secondary): Mathematics/Science
- Education (Secondary): Science/Science
- Engineering Honours/Arts
- Engineering Honours/Commerce
- Engineering Honours/Law
- Engineering Honours/Project Management
- Engineering Honours/Science
- Engineering Honours/Science (Health)
- Engineering Honours/Science (Medical Science)
- Engineering Honours (Civil)/Design in Architecture
- Science/Law
- 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

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: HSC Mathematics Extension 1, Physics

Advanced Science - Environmental Biotechnology

Areas of study: Biostatistics, 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, HSC Mathematics Extension 1

Advanced Science - Pre-medicine

Areas of study: Biochemistry, cell biology, chemistry, genetics, human anatomy and physiology, histology, microbiology, pathology, pharmacology, physics, preparing for graduate medicine

Assumed knowledge: Mathematics (Advanced), any 2 units of science, any 2 units of English

Recommended studies: Biology, HSC Mathematics Extension 1

Advanced Science - Pharmaceutical Sciences

Areas of study: Cell biology and genetics, drug discovery, human anatomy and physiology, microbiology, pharmacology, medical chemistry

Assumed knowledge: Mathematics (Advanced), any 2 units of science, any 2 units of English

Recommended studies: Biology, HSC Mathematics Extension 1

ANALYTICS

Areas of study: Consumer analytics, financial mathematics, operations analysis, risk management, mathematical analysis and modelling, data analysis and analytics, probability, database fundamentals, quantitative management.

Assumed knowledge: Mathematics (Advanced), any 2 units of English

Recommended studies: HSC Mathematics Extension 1
**Global Studies**

**Areas of study:** Business studies, communication, globalisation, health, legal studies, management, lighting design, performance design, professional practice and design technology, spatial communications

Assumed knowledge: Any 2 units of English

**Recommended studies:** Chemistry, Physics, HSC Mathematics Extension 1

**FORENSIC SCIENCE**

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

**Recommended studies:** Chemistry, Physics, HSC 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 genetics, bioinformatics, biological criminalistics, bioinformatics, DNA profiling, investigation of human remains, metabolic biochemistry, microbiology, molecular biology

**FORENSIC SCIENCE - Crime Scene Investigation**

**Areas of study:** Advanced forensic imaging and recovery, criministics, forensic intelligence, homicide investigation, investigation of human remains, major scene investigation, forensic science

**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, computer literacy

**HEALTH SCIENCE**

**Areas of study:** Analytics, contemporary health issues, data analytics, digital health, digital health, epidemiology, global health, human structure and function, pharmacology, sport and exercise

Assumed knowledge: Any 2 units of English

**Traditional Medicine**

**Areas of study:** Acupuncture, auricular acupuncture, biomedical anatomy, channel, Chinese herbs, Chinese massage, Chinese medicinal plant care, clinical assessment and examination, clinical practice, complementary and alternative medicine, critical thinking and aetiological technique, diagnosis, electro acupuncture, herbal medicine, laser acupuncture, materiae and formulae, meridian, pathophysiology, pharmacology, philosophy of Chinese medicine, physiology, practice management, reflexive 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), HSC Mathematics Extension 1

**Computing Science**

**Areas of study:** Business information systems management, data analytics and artificial intelligence, enterprise systems development, interaction design, internetworking and applications, mathematical analysis, operations research, statistics

Assumed knowledge: Mathematics (Advanced), any 2 units of English

**Recommended studies:** English (Advanced), HSC Mathematics Extension 1

**Games Development**

**Areas of study:** Animation, computing and IT fundamentals, game development, software engineering, systems development

Assumed knowledge: Mathematics (Advanced), any 2 units of English

**Recommended studies:** English (Advanced), HSC Mathematics Extension 1
STEPS TO UNI FOR YEAR 10 STUDENTS

PHYSICS
Areas of study: Mechanics, waves, energy, electricity, quantum physics, atomic and nuclear physics, particle physics, and modern physics. Assumed knowledge: Mathematics (Advanced), any 2 units of English, any 2 units of science

BIOLOGY
Areas of study: Evolution, biodiversity, ecosystems, human biology, inheritance, genomics, biotechnology, and ethics in science. Assumed knowledge: Mathematics (Advanced), any 2 units of English, any 2 units of science

CIVIC AND POLITICAL STUDIES
Areas of study: The political world, the Australian political system, and political issues. Assumed knowledge: Mathematics (Advanced), any 2 units of English, any 2 units of science

COMMUNICATION STUDIES
Areas of study: Theories of communication, media of expression, and the study of mass media. Assumed knowledge: Mathematics (Advanced), any 2 units of English, any 2 units of science

SOCIAL STUDIES
Areas of study: History, geography, and sociology. Assumed knowledge: Mathematics (Advanced), any 2 units of English, any 2 units of science

RECOMMENDED STUDIES
- HSC Chemistry Extension 1
- HSC Mathematics Extension 1
- HSC Physics Extension 1

EXTRA RECOMMENDATIONS
- HSC Economics
- HSC History
- HSC Geography
- HSC Psychology
- HSC Sociology
- HSC Biology
- HSC Chemistry
- HSC Physics
- HSC English
- HSC Mathematics

Note: Recommended subjects are not required for admission but are beneficial for students.

COMBINED DEGREES
- Bachelor of Commerce and Bachelor of Computer Science
- Bachelor of Law and Bachelor of Commerce
- Bachelor of Engineering and Bachelor of Business

INTERNATIONAL STUDIES
- Diploma in International Studies
- Bachelor of International Studies

Technology and Innovation
Areas of study: Engineering, computer science, digital technology, and design. Assumed knowledge: Mathematics (Advanced), any 2 units of English

Creative Intelligence and Innovation
Areas of study: Creative thinking, innovation, and entrepreneurship. Assumed knowledge: Mathematics (Advanced), any 2 units of English

UNIVERSITY OF TECHNOLOGY SYDNEY
STEPS TO UNI FOR YEAR 10 STUDENTS

COMMERCE

Recommended studies:
- Mathematics (Advanced) or Mathematics
- Accountancy, business law, economics, finance, mechanical engineering, human resource management, international business, management, marketing, public relations, supply chain management
- Any 2 units of English

Assumed knowledge:
- Any 2 units of English

COMMERCIAL LAW

Recommended studies:
- Economics
- Finance
- Marketing
- Accounting
- Management
- Human resource management
- Marketing
- Business law

Assumed knowledge:
- Any 2 units of English

COMMERCIAL LAW (HONOURS)

Recommended studies:
- Economics
- Finance
- Accounting
- Management
- Human resource management
- Marketing
- Business law

Assumed knowledge:
- Any 2 units of English

ENGINEERING

Recommended studies:
- Engineering
- Computer science
- Electrical engineering
- Mechanical engineering
- Civil engineering
- Chemical engineering
- Biomedical engineering

Assumed knowledge:
- Any 2 units of English

ENVIRONMENTAL SCIENCE

Recommended studies:
- Environmental science
- Geography
- Mathematics

Assumed knowledge:
- Any 2 units of English

EXPERIENCE SCIENCE

Recommended studies:
- Anatomy
- Biomechanics
- Exercise physiology
- Exercise prescription
- Exercise rehabilitation

Assumed knowledge:
- Any 2 units of English

EXPERIENCE SCIENCE AND REHABILITATION

Recommended studies:
- Anatomy
- Biomechanics
- Exercise physiology
- Exercise prescription
- Exercise rehabilitation

Assumed knowledge:
- Any 2 units of English

INFORMATION TECHNOLOGY

Recommended studies:
- Computing
- Information systems
- Software engineering
- Web design

Assumed knowledge:
- Any 2 units of English

LANGUAGE STUDIES

Recommended studies:
- Chinese
- French
- Italian
- Spanish

Assumed knowledge:
- Any 2 units of English

LAW (SINGLE DEGREE)

Recommended studies:
- Law

Assumed knowledge:
- Any 2 units of English

LAW (DOUBLE DEGREE)

Recommended studies:
- Law

Assumed knowledge:
- Any 2 units of English

UNIVERSITY OF WOLLONGONG

www.uow.edu.au
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Enquiries
by post: UOW Future Students
University of Wollongong
NSW 2522
in person: Admissions Advice
Student Central, ground floor, Building 17
Wollongong campus
Northfields Avenue
Gwynneville NSW 2500

telephone: 1300 367 869
email: futurestudents@uow.edu.au
facebook: facebook.com/uowfuture
instagram: instagram.com/explore/tags/ThisIsUOW
youtube: youtube.com/uownow

READ THIS FIRST

- Mathematics Standard 2 and Investigating Science may not adequately prepare students for further studies in the areas of mathematics and science at the University of Wollongong. Hence, 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.

* Subject to final approval
STEPS TO UNI FOR YEAR 10 STUDENTS

MEDICAL 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: Four units of science (including Biology and Chemistry)

MATHMATICS
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: HSC 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: HSC Mathematics Extension 1

Medical Mathematics
Areas of study: Applied statistics, biology, mathematics
Assumed knowledge: Mathematics (Advanced), any 2 units of English, any 2 units of science
Recommended studies: Chemistry, HSC Mathematics Extension 1

Mathematics – Advanced and Dean’s Scholar
Mathematics Advanced
Areas of study: Industrial and applied mathematics, mathematical analysis, pure mathematics, statistics
Course Prerequisite: HSC Mathematics Extension 2
Mathematics and Finance – Dean’s Scholar
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: HSC Mathematics Extension 1

Medical Mathematics – Dean’s Scholar
Course prerequisite: HSC Mathematics Extension 1
Mathematics Advanced
Areas of study: Industrial and applied mathematics, mathematical analysis, pure mathematics, statistics
Course prerequisite: HSC Mathematics Extension 2
Mathematics and Finance – Dean’s Scholar
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: HSC Mathematics Extension 1

MEDITICAL BIOTECHNOLOGY
Areas of study: Biochemistry, biotechnology, cellular and molecular biology, genetics, immunology
Assumed knowledge: Mathematics (Advanced), 2 units of science
Recommended studies: Biology, Chemistry

MEDICAL CHEMISTRY
Areas of study: Biochemistry, pharmacology, physiology
Assumed knowledge: Mathematics, Chemistry (Advanced)
Recommended studies: Four 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
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: Economics (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, biological sciences, biomolecular physics, biotechnology, chemistry, conservation biology, environment, geography, human geography, land and heritage management, materials, medical biotechnology, medicinal chemistry, nuclear science technology, physical geography and environmental geosciences, physics
Assumed knowledge: Mathematics (Advanced), any 2 units of science
Recommended studies: Four units of science

SUSTAINABLE COMMUNITIES
Areas of study: Human geography, social and environmental sustainability, social policy
Assumed knowledge: Any 2 units of English
Recommended studies: Geography

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)
Recommended studies: HSC 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

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)
- 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/International Studies
- Communication and Media/International Studies (Dean’s Scholar)
- 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/International Studies
- Psychology/Commerce
- Science/Arts
- Science/Commerce
- Science/Mathematics

Double degrees in Law are also offered. Refer to main entry for details.
STEPS TO UNI FOR YEAR 10 STUDENTS

Enquiries
Kensington and Paddington campuses
by post: Future Students Office
UNSW Sydney NSW 2052

UNSW Canberra at ADFA
by post: Student Administrative Services
Australian Defence Force Academy
PO Box 7916
Canberra BC ACT 2610

in person: Future Students Office
The Red Centre (H10)
UNSW Sydney
Kensington NSW 2033

telephone: (02) 9385 1844
website: unsw.edu.au/futurestudents
email: futurestudents@unsw.edu.au

Main branches indicate courses generally offered as bachelor degrees unless Dip, Adv Dip or BApp is shown in brackets. Subheadings are specialisations within the courses.

ACTUAL 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: HSC Mathematics Extension 1
Recommended studies: English (Advanced), HSC Mathematics Extension 1

ARCHITECTURAL STUDIES
Recommended studies: Ancient History, Design and Technology, English (Advanced), Modern History, Visual Arts

ART THEORY
Recommended studies: One or more of English (Advanced), Modern History, Visual Arts

ARTS
Areas of study: Asian studies, Australian studies, Chinese studies, creative writing, criminology, development studies, economics (Business), English, environmental humanities, European studies, film studies, French studies, German studies, history, Indigenous studies, Japanese studies, Korean studies, linguistics, media, culture and technology, music studies, philosophy, politics and international relations, 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

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), HSC Mathematics Extension 1

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), HSC Mathematics Extension 1

COMPUTATIONAL DESIGN
Recommended studies: Design and Technology, Information Processes and Technology, Mathematics Advanced, Software Design and Development, Visual Arts

COMPUTER SCIENCE
Assumed knowledge: HSC Mathematics Extension 1
Recommended studies: Engineering Studies, HSC Mathematics Extension 2, Information Processes and Technology, Physics, Software Design and Development

CONSTRUCTION MANAGEMENT AND PROPERTY
Recommended studies: English (Advanced), Mathematics (Advanced)

CRIMINOLOGY AND CRIMINAL JUSTICE
Areas of study: Criminology, social research and policy
Recommended studies: English (Advanced)

DATA SCIENCE AND DECISIONS
Areas of study: Business data science, computational data science, quantitative data science
Assumed knowledge: HSC Mathematics Extension 1

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

ECONOMICS
Areas of study: Accounting, business law, economics (Business), 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), HSC Mathematics Extension 1

EDUCATION
Recommended studies: Any 2 units of English (Band 5)
Recommended studies: English (Advanced)

Engineering

Aerospace Engineering
Biomedical Engineering
Chemical 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
Renevable Energy Engineering
Surveying
Telecommunications

Assumed knowledge: HSC Mathematics Extension 1, Physics
Recommended studies: Biology, Chemistry, Engineering Studies, HSC Mathematics Extension 2, Information Processes and Technology, Software Design and Development

Bioinformatics Engineering
Assumed knowledge: Chemistry, HSC Mathematics Extension 1
Recommended studies: Biology, Engineering Studies, HSC Mathematics Extension 2, Information Processes and Technology, Software Design and Development

Biotechnology
Assumed knowledge: Chemistry, HSC Mathematics Extension 1, Physics
Recommended studies: Biology, Engineering Studies, HSC Mathematics Extension 2, Information Processes and Technology, Software Design and Development
**Software Engineering**

**Assumed knowledge:** HSC Mathematics Extension 1

**Recommended studies:** Biology, Chemistry, Engineering Studies, HSC Mathematics Extension 2, Information Processes and Technology, Software Design and Development

**EXERCISE PHYSIOLOGY**

**Assumed knowledge:** Chemistry, Mathematics (Advanced)

**Recommended studies:** Biology, Physics, Personal Development, Health and Physical Education (PDHPE)

**FINE ARTS**

**Areas of study:** Drawing, moving image, painting, photography, printmaking, sculpture

**Assumed knowledge:** Visual Arts

**FOOD SCIENCE**

**Assumed knowledge:** Chemistry, HSC Mathematics Extension 1, Physics

**Recommended studies:** Biology

**INDUSTRIAL DESIGN**

**Recommended studies:** Design and Technology, Visual Arts, Mathematics (Advanced)

**INFORMATION SYSTEMS**

**Assumed knowledge:** Mathematics (Advanced)

**Recommended studies:** English (Advanced), HSC Mathematics Extension 1

**INTERIOR ARCHITECTURE**

**Recommended studies:** Design and Technology, English (Advanced), Textiles and Design, Visual Arts

**INTERNATIONAL PUBLIC HEALTH**

**Assumed knowledge:** English (Standard)

**INTERNSHIP STUDIES**

**Areas of study:** Asian studies, Chinese studies, development studies, environmental humanities, European studies, French studies, German studies, international business, international relations, Japanese studies, Korean studies, politics and international relations, sociology and anthropology, Spanish and Latin American studies

**Recommended studies:** English (Advanced)

**LANDSCAPE ARCHITECTURE**

**Recommended studies:** Geography, Visual Arts, English (Advanced), Design and Technology

**LAW (DUAL)**

- Actuarial Studies/Law
- Advanced Mathematics (Hons)/Law
- Advanced Science (Hons)/Law
- Arts and Business/Law
- Art Theory/Law
- Arts/Law
- City Planning (Hons)/Law
- Commerce/Law
- Computer Science/Law
- Criminology and Criminal Justice/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
- 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)

**MEDIA**

**Communication and Journalism**

**Public Relations and Advertising**

**Screen and Sound Production**

**Recommended studies:** English (Advanced)

**MEDIA ARTS**

**Areas of study:** Animation, digital media, interactive media, moving image, sound

**Recommended studies:** Design and Technology, Industrial Technology (Multimedia Technologies), Visual Arts

**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, Earth and Environmental Science, HSC Mathematics Extension 1, Physics

**MEDICINE**

**Assumed knowledge:** English (Standard)

**Recommended studies:** Chemistry

**Additional selection criteria:** Undergraduate Medicine and Health Sciences Admission Test (UMAT), interview

**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 8 AMEB Musicianship (or equivalent) or HSC Music Extension

**Recommended studies:** English (Advanced)

**Additional selection criteria:** Audition

**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, Earth and Environmental Science, English (Advanced), Physics

**PSYCHOLOGY**

**Assumed knowledge:** Mathematics (Advanced)

**Recommended studies:** Biology, Chemistry, Earth and Environmental Science, English (Advanced), Physics

**SCIENCE**

**Advanced Mathematics**

**Areas of study:** Advanced statistics, applied mathematics, pure mathematics, quantitative risk

**Assumed knowledge:** HSC Mathematics Extension 1

**Recommended studies:** HSC Mathematics Extension 2

**Advanced Science**

**Areas of study:** Advanced physical oceanography, advanced physics, anatomy, bioinformatics, biology, biotechnology, chemistry, climate dynamics, climate systems science, earth science, ecology, genetics, geochimistry, geography, human 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) plus one or more of Biology, Earth and Environmental Science, Physics, HSC Mathematics Extension 1 (depending on chosen area of study)

**Biotechnology**

**Assumed knowledge:** Chemistry, Mathematics (Advanced)

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

**Environmental Management**

**Areas of study:** Biology, earth science, ecology, environmental chemistry, geography, marine and coastal science

**Assumed knowledge:** Chemistry, Mathematics (Advanced)

**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 (Hon)**

**Areas of study:** Ceramic engineering, materials engineering, physical metallurgy, process metallurgy

**Assumed knowledge:** Mathematics Extension 1, Physics

**Recommended studies:** Mathematics Extension 2, Chemistry and Engineering Studies

**Medicinal Chemistry**

**Assumed knowledge:** Mathematics (Advanced), Chemistry

**Recommended studies:** Biology, Physics

**Science**

**Areas of study:** Anatomy, bioinformatics, biology, biotechnology, chemistry, earth science, ecology, food science, genetics, geophysics, 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) plus one or more of Biology, Earth and Environmental Science, Physics, HSC Mathematics Extension 1 (depending on chosen area of study)

**SOCIAL RESEARCH AND POLICY**

**Areas of study:** Development studies, economics (Business), environmental humanities, human resource management (Business), Indigenous studies, international business (business), marketing, media, culture and technology, politics and international relations, sociology and anthropology

**Recommended studies:** English (Advanced)

**SOCIAL WORK**

**Recommended studies:** English (Advanced)

**VISION SCIENCE**

**Areas of study:** Optometry, vision science

**Assumed knowledge:** Chemistry, English (Advanced), Mathematics (Advanced), Physics

**DUAL DEGREES**

If you intend to undertake dual 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)/Social Research and Policy
- Art Theory/Arts
- Art Theory/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
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: English

Additional selection criteria: Defence students: Interview process with Defence Force Recruiting for entry to the Australian Defence Force

BUSINESS

Additional selection criteria: Defence students: Interview process with Defence Force Recruiting for entry to the Australian Defence Force

COMPUTING AND CYBER SECURITY

Assumed knowledge: Mathematics (Advanced)

Additional selection criteria: Defence students: Interview process with Defence Force Recruiting for entry to the Australian Defence Force

ENGINEERING

Aeronautical Engineering

Civil Engineering

Electrical Engineering

Mechanical Engineering

Assumed knowledge: Mathematics (Advanced), Physics

Additional selection criteria: Defence students: Interview 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: Interview process with the Department of Defence

SCIENCE

Areas of study: Aviation, chemistry, computer science, geography, mathematics, oceanography, physics

Assumed knowledge: For aviation: Mathematics (Advanced) chemistry, mathematics, oceanography, physics. For aviation, oceanography and physics.

Additional selection criteria: Defence students: Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force

TECHNOLOGY

Aeronautical Engineering

Aviation

Areas of study: Aeronautical engineering

Assumed knowledge: Mathematics (Advanced), Physics

Additional selection criteria: Defence students: Interview process with Defence Force Recruiting for entry to the Australian Defence Force

DUAL DEGREES

If you intend to undertake dual 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 (Hon)/Arts
– Engineering (Hon)/Biomedical Engineering
– Engineering (Hon)/Commerce
– Engineering (Hon)/Computer Science
– Engineering (Hon)/Engineering
– Engineering (Hon)/Science
– Environmental Management/Arts
– Fine Arts/Arts
– International Studies/Media (Communications & Journalism)
– International Studies/Media (PR and Advertising)
– International Studies/Media (Screen and Sound)
– Materials Science and Engineering (Hon)/Biomedical Engineering
– Materials Science and Engineering (Hon)/Commerce
– Materials Science and Engineering (Hon)/Engineering Science (Chemical Engineering)
– Media/International Studies
– Medicine/Arts
– Music/Advanced Science (Hon)
– Music/Arts
– Music/Commerce
– Music/Engineering (Hon)
– Music/Media (Communications & 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 (Hon)/Arts
– Social Work (Hon)/Criminology and Criminal Justice
– Social Work (Hon)/Social Research and Policy
– Vision Science/Clincial Optometry

Dual degrees in Law and Education are also offered. Refer to the main subject area for details.

WESTERN SYDNEY UNIVERSITY

westernsydney.edu.au

CRICOS provider number 0097K

Enquiries

by post: Course Information Centre
Western Sydney University
Locked Bag 1977
Penrith NSW 2751

in person: Campus locations are:
Bankstown, Campbelltown, Hawkesbury,
Liverpool, Neirima (Blacktown), Parramatta,
Parramatta City, Penrith, Sydney City,
Sydney Olympic Park

telephone: 1300 897 669
email: study@westernsydney.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 Dip is shown in brackets. Subheadings are specialisations within the course.

ACCOUNTING

Areas of study: Accounting, taxation and financial planning

Assumed knowledge: Mathematics (Advanced), 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: Mathematics (Advanced), any 2 units of English

ARTS

Areas of study: Anthropology, Arabic, Chinese, creative writing, criminology, 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

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), Pathway to Teaching (Primary) - Arts

Assumed knowledge: Any 2 units of English (Band 5), any 2 units of mathematics (Band 4)

Recommended studies: English (Standard), Pathway to Teaching (Secondary) - Arts

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)

Recommended studies: Mathematics (Advanced), any 2 units of English

BUSINESS

BUSINESS (ADVANCED) BUSINESS LEADERSHIP

Accounting

Applied Finance

Economics

Hospitality Management

Human Resource Management

International Business

Management

Marketing

Property

Sport Management

Assumed knowledge: Mathematics (Advanced), any 2 units of English.

BUSINESS (DIP)

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

Recommended studies: Legal Studies, Business Studies, Economics

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

COMMUNITY AND SOCIAL DEVELOPMENT (DIP)

Available only to Aboriginal and Torres Strait Islander students.

Additional selection criteria: Entry is via the Aboriginal and Torres Strait Islander Alternative Entry Program. Check with the University for more details.
COMMUNITY WELFARE
Recommended studies: Any 2 units of English

COMPUTER SCIENCE
Areas of study: Cyber security, networked systems, programming
Assumed knowledge: Mathematics (Advanced), any 2 units of English
Recommended studies: HSC Mathematics Extension 1

COMPUTER SCIENCE (ADVANCED)
Areas of study: Networked systems, systems programming, software security
Assumed knowledge: Mathematics (Advanced), any 2 units of English
Recommended studies: HSC Mathematics Extension 1

CONSTRUCTION MANAGEMENT
Recommended studies: Mathematics (Advanced), Physics, any 2 units of English

CONSTRUCTION MANAGEMENT (DIP)
Assumed knowledge: Any 2 units of mathematics
Recommended studies: Physics

CONSTRUCTION TECHNOLOGY
Recommended studies: Mathematics (Advanced), Physics, 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, photography, research methods, visual storytelling, web- and time-based design
Assumed knowledge: One or more of Design and Technology, Visual Arts, Information Processes and Technology

DESIGN AND TECHNOLOGY
Assumed knowledge: Any 2 units of English plus at least two of Physics, Design and Technology, Visual Arts

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 Alternative Entry Program. Check with the University for more details.

ENGINEERING (HONOURS)

ENGINEERING (ADVANCED) (HONOURS)

ENGINEERING (DIP)
Assumed knowledge: Any 2 units of English, any 2 units of mathematics
Recommended studies: Physics

ENGINEERING SCIENCE
Assumed knowledge: Mathematics (Advanced) (Band 4), any 2 units of science, any 2 units of English
Recommended studies: Physics, HSC Mathematics Extension 1 or HSC Mathematics Extension 2

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

GEOGRAPHY & PLANNING (PATHWAY TO MASTER OF URBAN MANAGEMENT AND PLANNING)
Assumed knowledge: English (Standard)
Recommended studies: Any 2 units of English, Geography Social Science (Geography and Urban Studies)

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 (Multimedia)

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

Recommendations: 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) or equivalent

Sport and Exercise Science
Assumed knowledge: Any 2 units of English

Recommended studies: Any 2 units of science

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

HUMANITARIAN AND DEVELOPMENT STUDIES
Assumed knowledge: English (Standard)

INDUSTRIAL DESIGN
Assumed knowledge: Design and Technology, any 2 units of English, plus at least 2 units of Business Studies, Mathematics (Advanced), Physics, Visual Arts

INFORMATION AND COMMUNICATIONS TECHNOLOGY (ADVANCED)

Areas of study: Cyber security, data protection, entertainment computing, health informatics, mathematics, mobile computing, networking
Assumed knowledge: Mathematics (Advanced), any 2 units of English

INFORMATION SYSTEMS

INFORMATION SYSTEMS (ADVANCED)

Areas of study: Big data, data protection, entertainment computing, health informatics, mathematics, mobile computing, networking
Assumed knowledge: Mathematics (Advanced), any 2 units of English

INFORMATION SYSTEMS INFORMATION SYSTEMS TECHNOLOGY (ADVANCED)

Areas of study: Cyber security, data protection, entertainment computing, health informatics, mathematics, mobile computing, networking
Assumed knowledge: Mathematics (Advanced), any 2 units of English

INFORMATION TECHNOLOGY

INFORMATION TECHNOLOGY (DIP)

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

INTERNATIONAL STUDIES

Assumed knowledge: Any 2 units of English (Band 4)

Recommended studies: English (Standard)

LAW

Assumed knowledge: English (Advanced)

LAW (COMBINED)

– Accounting/Laws
– Arts/Laws
– Business/Laws
– Business (Advanced)/Business Leadership/Laws
– Communication/Laws
– Construction Management/Construction/Laws
– Criminal and Community Justice/Laws
– Criminology/Laws
– Employment/Laws
– Science/Laws
– Social Science/Laws

Assumed knowledge: For Laws: English (Advanced) For the other area of study: Refer to the relevant entry

MEDICINE

MEDICINE (BACHELOR)

MEDICINE (MEDICAL SCIENCE)

Recommended studies: At least two of Biology, Chemistry, Mathematics (Advanced), Physics

Recommended studies: For Medical Science (Advanced): Mathematics (Advanced) (Band 4), Chemistry

MEDICINE/SURGERY

Additional selection criteria: Aptitude test (eg Undergraduate Medicine Admissions Test) and interview performance

MIDWIFERY

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

Additional selection criteria: Interview

MUSIC

Additional selection criteria: Audition, interview, or AMEB (or equivalent) 6th grade performance and 4th grade theory, or TAFE Diploma or Advanced Diploma

NURSING

NURSING (ADVANCED)

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

OCCUPATIONAL THERAPY

Assumed knowledge: Any 2 units of English

Recommended studies: Physics, Chemistry plus Biology and/or Personal Development, Health and Physical Education (PDHPE)

PARA MEDICINE

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: Mathematics (Advanced), 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

SCIENCE (ADVANCED)

Assumed knowledge: At least two of Biology, Chemistry, Mathematics (Advanced), Physics

Assumed knowledge: English, any 2 units of science

Recommended studies: At least one of Agriculture, Biology, Chemistry, Earth and Environmental Science, Geography
### STEPS TO UNI FOR YEAR 10 STUDENTS

**Biological Sciences**
- **Assumed knowledge:** At least two of Biology, Chemistry, Mathematics (Advanced), Physics

**Chemistry**
- **Assumed knowledge:** At least two of Biology, Chemistry, Mathematics (Advanced), Physics

**Environmental Health**
- **Assumed knowledge:** English, any 2 units of science

**Sustainable Agriculture and Food Security**
- **Assumed knowledge:** Any 2 units of English

**Tourism Management**
- **Assumed knowledge:** Any 2 units of English

**Traditional Chinese Medicine**
- **Assumed knowledge:** Any 2 units of English

**Combined/Double Degrees**
- **Assumed knowledge:** Any 2 units of English

### Science (DIP)
- **Recommended studies:** English, any 2 units of science

### Social Science (DIP)
- **Recommended studies:** English, any 2 units of science

### Sociology (Advanced)
- **Recommended studies:** English, any 2 units of science

### Forensic Science
- **Assumed knowledge:** At least two of Biology, Chemistry, Mathematics (Advanced), Physics

### Mathematical Science
- **Assumed knowledge:** Mathematics (Advanced)

### Nutrition and Food Science
- **Assumed knowledge:** At least two of Biology, Chemistry, Mathematics (Advanced), Physics

### Zoology
- **Assumed knowledge:** English, any 2 units of science

**Science (DIP) (POLICING) (DIP)**
- **Recommended studies:** Any 2 units of English

**Social Science (PSYCHOLOGY)**
- **Assumed knowledge:** Any 2 units of English

**Social Work**
- **Assumed knowledge:** Any 2 units of English

### Applied Leadership and Critical Thinking

This degree can be taken in conjunction with any Western Sydney bachelor degree listed in this booklet. It is not a standalone program.

**Data Science**

This degree can be taken in conjunction with any Western Sydney bachelor degree listed in this booklet. It is not a standalone program.

**Entrepreneurship**

This degree can be taken in conjunction with any Western Sydney bachelor degree listed in this booklet. It is also a standalone program.

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

### Stephens to Uni for Year 10 Students

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###about this publication

This booklet is for students in Year 10 in 2018 to help them decide which HSC courses to take in Years 11 and 12. It lists courses UAC’s participating institutions will offer in 2021 with details of prerequisites, assumed knowledge, recommended studies and additional selection criteria.

**Images**

Karl Stanley Photography

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2. In the Privacy act 1988 (Cth).
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