



**2014**  
Year 10 Booklet

# UNIVERSITY ENTRY REQUIREMENTS



**For Year 10 students choosing courses for Years 11 and 12  
in preparation for tertiary study in 2014**

**UAC**  
UNIVERSITIES  
ADMISSIONS CENTRE

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### **Special thanks**

Special thanks are made to the staff at UAC and participating institutions who dedicated a great deal of time and effort to the production of this booklet.

### **About this publication**

The *University Entry Requirements 2014 Year 10 Booklet* is for students in Year 10 in 2011 to help them make decisions about which HSC courses to take in Years 11 and 12. This booklet lists details of prerequisites, assumed knowledge and recommended studies applicable for each area of study offered by UAC's participating institutions.

### **Printer**

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### **Cover picture**

Joel Michael Pead (Easson)  
Kempsey Adventist School

Anathema  
(*photomedia*)

The issues and ideas explored in *Anathema* are a result of my own experiences riding BMX bikes. One thing I've noticed wherever I ride, in town or in the city, is that people generally loathe our presence. For some reason people consider us a blight on society, troublemakers and degenerates. I created this book to show people that although we practise a sport on the street, we're not street rats out to make trouble – we are just the same as everyone else, having the same morals, lifestyles and ambitions as everyone else.

### **ARTEXPRESS**

ARTEXPRESS is an annual exhibition of outstanding works selected from the NSW Higher School Certificate examination in Visual Arts. The exhibition is presented by the NSW Department of Education and Training and the Board of Studies NSW.

The selection of works nominated during the 2010 HSC was made by representatives from the host venues in conjunction with the ARTEXPRESS Coordinator. The exhibiting venues in the city are The Rocks, The Art Gallery of New South Wales, Hazelhurst Regional Gallery and Arts Centre and The Armory Gallery at Sydney Olympic Park. The regional venues are Albury, Newcastle, Wollongong, Tamworth, Griffith, and Manning Taree Regional Art Galleries.

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# Contacting UAC



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For those travelling by rail, UAC is 250 metres from Olympic Park railway station.

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(Sydney local time)

## website

[www.uac.edu.au](http://www.uac.edu.au)

## email

online enquiry form at [www.uac.edu.au](http://www.uac.edu.au)



Map supplied courtesy of the Sydney Olympic Park Authority (SOPA)

# Open days in 2011

## **Australian Catholic University**

Canberra campus 27 August  
North Sydney campus 3 September  
Strathfield campus 10 September

## **Australian Maritime College**

Beauty Point campus 20 August  
Newnham campus 21 August  
Campus tours can be arranged by appointment.  
For further information, call (03) 6324 9646.

## **Australian National University**

27 August  
For campus tours, call 1800 620 032 or email campus.tours@anu.edu.au

## **Canberra Institute of Technology**

Bruce campus 27 August

## **Charles Sturt University**

Open day every day  
For campus tours/appointments and course information,  
call 1800 334 733.

## **Griffith University**

Gold Coast campus 14 August

## **La Trobe University**

Albury-Wodonga campus 21 August  
Mildura campus 14 August

## **Macquarie University**

10 September

## **Southern Cross University**

For personalised campus tours and special events,  
call 1800 626 481 or (02) 6620 3975.

## **University of Canberra**

27 August

## **University of New England**

6 May  
For personalised tours, call 1800 818 865.

## **University of New South Wales**

Open Day 3 September  
Australian Defence Force Academy, Canberra 27 August

## **University of Newcastle**

Newcastle campus (Callaghan) – Information Day 27 August  
Central Coast campus (Ourimbah) – Information Day 20 August  
Port Macquarie campus – Information Night 1 September

## **University of Sydney**

Sydney Uni Open Day 27 August

## **University of Technology, Sydney**

UTS Open Day, Broadway campus 27 August  
UTS Information Evening, Kuring-gai campus 17 August

## **University of Western Sydney**

Open Day, Parramatta campus 28 August

## **University of Wollongong**

For personalised campus tours and special events, call 1300 367 869.

**For information on school visit days, contact individual institutions.**

# Introduction

## 1 YEAR 10: THE YEAR OF DECISIONS

The Universities Admissions Centre (NSW & ACT) Pty Ltd (UAC) has prepared this booklet on behalf of participating institutions to help you make decisions about which courses to take in Years 11 and 12.

If you plan to apply for tertiary study you should select HSC courses that keep the doors open for entry to a range of tertiary courses.

UAC's participating institutions have listed the areas of study that they plan to offer in 2013 (as far as is known at the time this booklet went to print). Where applicable, the participating institutions have shown details of:

- course and subject prerequisites
- assumed knowledge and
- recommended studies.

Refer to the Glossary on pages 84–85 for definitions of the above terms.

### For more information:

- see your careers adviser
- contact the institutions – see 'Participating institutions', starting on page 13, for telephone numbers and addresses
- read the *UAC Guide*. Reference copies are available from your careers adviser and/or in your school library.

Entry to tertiary institutions in NSW and ACT is competitive and not all students who satisfy the minimum requirements for entry to a particular institution are offered a place in the program of their choice. This booklet is intended, however, to make it easier for you to choose which courses to take.

Participating institutions are aware that not every school offers the full range of HSC courses. If your school does not offer a course recommended as preparation for tertiary study, or if you can't study the recommended course, ask the institution of your choice what supplementary studies you may need to undertake.

### Subject selection and the ATAR

It is a myth that choosing certain HSC subjects will automatically maximise your ATAR. The best way to choose your subjects is to consider:

- what you are good at
- what you like doing
- what will best prepare you for what you are planning to do after the HSC and
- what gives you some flexibility if you change your mind.

For more information on the ATAR, see section 3.

## 2 ACT SYSTEM

If you are a college or school student in the ACT and you are thinking about studying at a participating institution, check equivalence between the NSW HSC and ACT Year 12 Certificate courses on this page. For a complete listing visit [www.uac.edu.au/undergraduate/](http://www.uac.edu.au/undergraduate/)

## English

ACT	NSW
English (Major)	English (Advanced)
English (Major Minor)	HSC English Extension 1
English (Double Major)	HSC English Extension 2

## Mathematics

ACT	NSW
Mathematical Methods (Major) or Specialist Mathematics (Major)	Mathematics
Specialist Mathematics (Major Minor)	HSC Mathematics Extension 1
Specialist Mathematics (Double Major)	HSC Mathematics Extension 2

Information about the calculation of the ACT Australian Tertiary Admission Rank (ATAR) is available from the ACT Board of Senior Secondary Studies – call (02) 6205 7174.

## 3 AUSTRALIAN TERTIARY ADMISSION RANK (ATAR)

### ATAR courses

ATAR courses are Board Developed courses for which there are formal examinations conducted by the Board of Studies that yield a graded assessment. These are the only courses that can be included in the ATAR calculations.

## 3.1 What is the ATAR?

Tertiary institutions in Australia have found that a selection rank based on a student's overall academic achievement is the best single predictor of success for most tertiary courses.

The ATAR allows the comparison of students who have completed different combinations of HSC courses. The ATAR is calculated solely for use by institutions, either on its own or in conjunction with other selection criteria, to rank and select school leavers for admission to tertiary courses.

Other criteria such as a portfolio, interview, audition, questionnaire or test may also be taken into account in conjunction with the ATAR for certain courses. See pages 13–83 for further information on selection criteria.

The ATAR is a number (not a mark) that indicates a student's position in relation to their Year 7 cohort, including students who did not complete Year 12. An ATAR of 80.00, for example, indicates that students with that ATAR have performed in the HSC better than 80 per cent of their Year 7 cohort, had all these Year 7 students completed Year 12 and been eligible for an ATAR. The ATAR is reported as a number between 0.00 and 99.95 with increments of 0.05.

Calculation of the ATAR is the responsibility of the Technical Committee on Scaling on behalf of the NSW Vice-Chancellors' Committee. Students who indicate on their HSC entry forms that they wish to be notified of their ATAR will receive an ATAR Advice Notice from UAC. ATARs are also made available to institutions for selection purposes.

## 3.2 The ATAR Notice

While ATARs are calculated for all ATAR-eligible students, only students who indicate on their HSC entry forms that they wish to be notified of their ATAR receive an ATAR Advice Notice from UAC. These students will receive their written Advice Notices at the same time as they receive their HSC results from the Board of Studies.

The ATAR Advice Notice includes:

- a student's ATAR
- a list of the ATAR courses which the student studied and the categorisation of each course and
- the number of units of each ATAR course that contributed to the calculation of the ATAR.

There are two cases where an ATAR will not be shown on the ATAR Advice Notice. The first is when a student receives an ATAR between 0.00 and 30.00, in which case the ATAR will be indicated as "30 or less". The second is when the student has not met the requirements for an ATAR, in which case the statement "Not Eligible" will appear.

## 3.3 Who is eligible for an ATAR?

### Categorisation of ATAR courses

There are many HSC courses but not all will contribute to an ATAR. Courses that do contribute to the ATAR are Board Developed courses for which there are formal examinations that yield graded assessments. These are termed ATAR courses.

ATAR courses are classified as either Category A or Category B courses. The criteria for Category A courses are academic rigour, depth of knowledge, the degree to which the course contributes to assumed knowledge for tertiary studies, and the coherence with other courses included in the ATAR calculations. Category B courses are those whose level of cognitive and performance demands are not regarded as satisfactory in themselves, though their contribution to a selection index is regarded as adequate if the other courses included in the aggregate are more academically demanding.

Courses to be examined in 2013 and their categories are listed in Table 1 on pages 10–12. At present there are few Category B courses.

### Eligibility for an ATAR

To be eligible for an ATAR a student must satisfactorily complete at least 10 units of ATAR courses. These ATAR courses must include at least:

- eight units from Category A courses and
- two units of English and
- three Board Developed courses of two units or greater and
- four subjects.

See Table 1 on page 10 for the definition of 'course' and 'subject'.

**You must check your program of study carefully to make sure that you will be eligible for an ATAR.**

### Satisfactorily completed courses

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

- 1 followed the course developed or endorsed by the Board of Studies, and
- 2 applied themselves with diligence and sustained effort to the set tasks and experiences provided in

- 3 the course by the school, and
- 4 achieved some or all of the course outcomes, and
- 4 completed at least 50 per cent of the HSC assessment tasks mandated by their school in that 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, failure to satisfactorily complete the 2-unit course will result in neither the 2-unit nor the extension course contributing towards their ATAR.

## 3.4 Calculation of the ATAR

The ATAR is a rank based on an aggregate of scaled marks in 10 units of ATAR courses. A student's aggregate is based on their:

- best two units of English and
- best eight units from their remaining units, which can include up to two units of Category B courses.

Although eligibility for an ATAR requires completion of at least four subjects, the aggregate may be based on less than four subjects, for example English Advanced, English Extension 1 and Extension 2, Mathematics Extension 1 and Extension 2, and one other 2-unit course.

Marks to be included in the ATAR calculations can be accumulated over a five-year period but if a course is repeated, only the last satisfactory attempt is used in the calculation of the ATAR.

Scaled marks are calculated the year the courses are completed.

### Bonus points and cut-offs

The cut-off for a course indicates the minimum rank required for selection into the course for most Year 12 applicants. Some applicants may receive an offer even though they have an ATAR below the published cut-off. Often this is because those applicants have been awarded bonus points by a particular institution. Bonus points are allocated for things like strong performance in HSC subjects, living or attending school in a certain area, and applying for consideration through Educational Access Schemes. **Bonus points are not added to your ATAR.** Bonus points don't change your ATAR; bonus points change your selection rank for a particular preference. For most Year 12 applicants, their selection rank is their ATAR. But if you have been awarded bonus points for a particular preference, your selection rank = your ATAR + bonus points. Therefore, the cut-off includes bonus points where applicable.

## 3.5 How is the ATAR determined?

The ATAR is determined by:

- scaling the raw HSC marks (which are the average of the raw HSC examination marks and the moderated school assessments) provided by the Board of Studies
- calculating an aggregate of scaled marks for each ATAR-eligible student
- ranking ATAR-eligible students based on this aggregate of scaled marks
- determining rankings based on what the rankings would have been if all students in the Year 7 cohort had completed Year 12 and been eligible for an ATAR.

This ranking is expressed as a percentile truncated to the nearest 0.05. This is the ATAR.

Note that rankings depend solely on performance in the HSC, not on performance in Year 7.

More detailed information on the scaling process is available from UAC (see 3.7 below).

### 3.6 Limited ATAR

Under certain circumstances you may be eligible for a Limited ATAR.

#### Eligibility

To be eligible for a Limited ATAR based on your 2013 HSC studies, you must meet both of the following conditions:

- be at least 20 years of age on 1 March 2013 and
- be taking between five and nine units of ATAR courses in 2013 that include at least one unit of English.

You cannot accumulate a Limited ATAR.

#### Calculation of a Limited ATAR

The Limited ATAR is calculated using scaled marks from ATAR courses comprising:

- at least one unit of English, and
- the best four other units of Category A courses.

If you are eligible for a Limited ATAR, you will be sent a separate Limited ATAR Advice by UAC at the same time as the HSC results and ATAR Advice are posted.

Some institutions use the Limited ATAR in conjunction with other criteria for selection purposes.

### 3.7 Further information

#### Universities Admissions Centre (NSW & ACT)

**website:** [www.uac.edu.au](http://www.uac.edu.au)

#### publications:

- *UAC Guide* – published in July/August each year and provided through schools at no charge to current NSW HSC and ACT Year 12 students; also available to purchase from newsagents and UAC.
- *Report on the Scaling of the NSW Higher School Certificate* – published in April/May each year and reference copies provided to schools at no charge; also available to purchase from UAC.
- *The Australian Tertiary Admission Rank in New South Wales - A Technical Report* – published in 2009 when the ATAR was first introduced; available to purchase from UAC.
- *All about your ATAR* – published in December each year and posted at no charge to current NSW HSC Year 12 students.

Publications are available by visiting UAC's office, calling UAC on (02) 9752 0200, or using the order form on UAC's website at [www.uac.edu.au](http://www.uac.edu.au). Most publications can also be downloaded from UAC's website.

#### NSW Board of Studies

**website:** [www.boardofstudies.nsw.edu.au](http://www.boardofstudies.nsw.edu.au)

#### publications:

- *Rules and Procedures for Higher School Certificate Candidates* – published in October each year.
- *Assessment, Certification and Examination (ACE) Manual* – contains details of the Board's rules and procedures for the HSC.

## 4 HSC SUBJECTS AND COURSES

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, English (Standard), English (Advanced), HSC English Extension 1 and HSC English Extension 2 are all included under the subject English. HSC subjects and HSC courses are listed in Table 1 on pages 10–12.

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

**Note:** Courses studied under the HSC-University Pathways program do not contribute to the ATAR.

### Category A courses

#### English

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 each institution entry for details. If you are considering studying English at tertiary level, English (Advanced) or HSC English Extension 1 is usually recommended.

Students who complete the Stage 6 Content Endorsed course English Studies are not eligible for an ATAR.

#### Biology/Chemistry/Earth and Environmental Science/Physics/Senior Science

If you wish to study science or a course based on science at tertiary level – for example, agriculture, all branches of engineering and applied sciences, natural resources, computing, medical or paramedical sciences, forestry or rural science – you are advised to study as much science and mathematics as you can at school by taking as many courses as you are able to handle effectively within the HSC rules.

#### Mathematics

A knowledge of mathematics is desirable for various 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 first year. These courses are the best preparation for the study of all branches of engineering and physics beyond first year.

Mathematics (not General Mathematics) 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.

#### 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, you will find that including the language in your HSC program is to your advantage. For some institutions this is essential if you intend to proceed to fourth year honours in that language.

Also ask the relevant institution whether specific requirements have been set for the study of a language. Beginners courses are accepted by all institutions for entrance purposes but are not recommended as preparation for study in that subject.

### **Ancient History/Economics/Geography/ Modern History**

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

### **Music**

Music can be included in your HSC program by studying Music 1, Music 2 or 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**

The study of Visual Arts is acceptable for entrance purposes. If you are considering further study in visual arts, however, find out the minimum entry standard required. Most courses require presentation of a portfolio of work.

### **Agriculture/Engineering Studies**

These HSC courses are accepted by institutions for entrance purposes. Agriculture is a useful preparation if you intend to study agricultural science, agricultural economics or rural science, while Engineering Studies is a useful preparation for the study of engineering.

The best preparation includes Chemistry, Physics and Mathematics if you wish to study agricultural science or rural science; or Chemistry, Physics and HSC Mathematics Extension 1 if you wish to study any of the branches of engineering.

### **Aboriginal Studies/Business Studies/ Dance/Design and Technology/Drama/Food Technology/Industrial Technology/Information Processes and Technology/Legal Studies/Community and Family Studies/Personal Development, Health and Physical Education/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**

Only the best two units from your Category B courses are available for inclusion in the calculation of your ATAR. Category B courses are listed in Table 1 on page 12.

## **5 AREAS OF TERTIARY STUDY**

This is a general guide to the broad areas of study offered by institutions. Always check with the relevant institution to confirm the information. For a general guide to which institutions offer which areas of study, refer to the Areas of study index on pages 86–87.

### **Architecture/Building/Design and Planning**

Students intending to undertake courses in these areas are advised to study two or more units of mathematics (not General Mathematics). A general background in science, particularly Physics, may be helpful but is not essential. Visual Arts or Industrial Technology may also be useful.

### **Arts/Humanities**

Degree programs in arts and liberal studies do not usually require a particular program of study at secondary school. The study of English is required by some institutions and recommended for all students in this field – check the institution entries for details. If you wish to study a language other than English as your major subject, however, you are advised to include the language of your choice in your HSC program, although in many cases you will be able to take introductory language courses that do not require prior study.

### **Business/Commerce/Economics/ Marketing/Management**

Courses in accounting, banking, econometrics, economics, finance, management and marketing may require at least two units of mathematics (not General Mathematics) as either a prerequisite or assumed knowledge.

HSC Economics or Business Studies are considered a useful, but not essential, preparation for courses in these areas.

Students wishing to undertake actuarial studies at tertiary level generally require HSC Mathematics Extension 1 or HSC Mathematics Extension 2 as a prerequisite.

### **Communications/Media Studies**

Most of these courses do not require a particular course of study at secondary school.

Some institutions recommend the study of English in preparation for communication and media courses – check the institution entries for details. In addition to the ATAR, some institutions may require you to complete a questionnaire and/or attend an interview.

### **Creative and Performing Arts**

Students intending to undertake studies in the creative and performing arts areas are advised to gain experience outside the school environment. Entry to most of these courses requires an audition, interview or portfolio (or combination of these) as well as a suitable ATAR. The study of Visual Arts, Dance, Drama, Music 1, Music 2 or HSC Music Extension may be helpful for courses in creative and performing arts areas. Some institutions will base selection to a creative arts course on the marks obtained in the HSC. Special admission procedures may be available if you are unable to include suitable subjects in your HSC program.

### **Earth and Environmental Sciences**

Most earth and environmental science courses do not require a particular program of study. Most institutions, however, recommend a background in science subjects such as Chemistry, Mathematics (not General Mathematics), and Physics or Biology.

Students who complete the Stage 6 Content Endorsed course English Studies are not eligible for an ATAR.

### **Education/Teaching**

In some institutions, courses in education may be taken in an arts, science or other program. Some institutions also offer separate teacher education programs in early childhood, primary and secondary education. See box on the following page for requirements to be employed as a primary or secondary teacher. Students who wish to qualify as a secondary teacher must also fulfil the entry requirements for study in their proposed area of teaching specialisation.

For intending early childhood teachers, some institutions assume or require satisfactory levels of mathematics and/or English.

### **HSC English and Mathematics requirements for teaching degrees**

*\*new requirements as advised by the NSW Institute of Teachers – effective 1 January 2010*

#### **Primary teaching**

For admission to an undergraduate primary teacher education program you should have achieved a Higher School Certificate minimum Band 4 in English Advanced, Standard English or English as a Second Language; as well as Band 4 in General Mathematics, or completion of Mathematics or Extension Mathematics.

Where you do not meet these entry requirements, a tertiary institution may offer concurrent study or appropriate bridging units and/or require satisfactory performance in approved tests in literacy and numeracy before graduation. For further details contact the course co-ordinator/s at the institutions.

#### **Secondary teaching**

For admission to an undergraduate secondary teacher education program you should have achieved a Higher School Certificate minimum Band 4 in English Advanced, Standard English or English as a Second Language.

Where you do not meet these entry requirements, a tertiary institution may offer concurrent study or appropriate bridging units and/or require satisfactory performance in an approved test in literacy before graduation. For further details contact the course co-ordinator/s at the institutions.

### **Engineering**

Most institutions recommend at least HSC Mathematics Extension 1 for the study of all branches of engineering. Physics and Chemistry are also recommended. Engineering Studies is considered a useful, but not essential, preparation for engineering.

### **Health Sciences (includes studies not listed under Medical Sciences)**

If you intend to study health sciences you are generally advised to include in your HSC study program at least two units of mathematics (not General Mathematics) and two units of science – preferably Chemistry, or, for medical imaging and medical radiation technology, Physics.

### **Human Movement/Sport Sciences/Physical Education**

Most courses in the areas of human movement, sport sciences and physical education do not require a particular program of study at secondary school. A background in science subjects (Physics, Chemistry and Biology) and mathematics (not General Mathematics) is recommended by some institutions. Personal Development, Health and Physical Education is also considered useful.

Some institutions require you to provide additional information relating to your sporting achievements.

### **Information Technology**

Studies in information technology usually require either Mathematics or HSC Mathematics Extension 1 (not General Mathematics) as a prerequisite or assumed knowledge. Computer science is generally taught on the assumption that students have studied HSC Mathematics Extension 1.

### **Law**

Generally, legal courses do not specify prerequisites or levels of assumed knowledge. If you are contemplating a law program combined with arts, business, commerce, economics, engineering, science, social sciences or social welfare, check that the subjects you choose comply with the requirements for those courses.

### **Medical Sciences (including medicine, optometry, pharmacy and veterinary science)**

Students intending to take up studies in these areas are advised to include at least two units of mathematics (not General Mathematics), Chemistry and either Physics or Biology in their HSC program.

Some institutions prefer the combination of Chemistry and Physics while others may have no preference provided Mathematics and Chemistry are included.

### **Nursing**

Students intending to undertake nursing studies are generally advised to include at least two units of studies in science, preferably Chemistry and/or Biology and/or Physics. Most institutions also recommend at least two units of mathematics.

### **Science/Applied Science/Technology**

Most courses in applied science are three-year or four-year professional courses which involve the study of mathematics, chemistry, physics and either biology or geology in first year. HSC Mathematics Extension 1 is assumed knowledge for courses in technologies such as textiles and metallurgy. Mathematics is acceptable in areas such as food technology, and agricultural and rural sciences.

Most science courses require students to have studied as much science and mathematics (not General Mathematics) as they can effectively handle. If possible, include both Chemistry and Physics in your HSC program.

### **Social Sciences**

Social sciences may include the study of economics, education, geography, law, psychology and sociology. Mathematics (not General Mathematics) may be required for some subjects.

### **Social Work/Welfare Work**

Most courses in social work and welfare work do not require a particular program of study at secondary school although a minimum score in English may be required by some institutions. If psychology is included as part of the course, then Mathematics (not General Mathematics) is strongly recommended.

### **Tourism/Hospitality Management**

Most courses in tourism and hospitality management do not require a particular program of study at secondary school although economics may be useful. Some courses also require a minimum level of English and mathematics. Some institutions require work experience in customer services as a prerequisite.

# How to read the institutions' entries

Institutions describe their requirements in different ways because they have different policies. The following information will help you to understand each institution's entry. Check the Glossary on pages 84–85 for further clarification of the terms.

**Courses listed by institutions:** If an institution requires you to have studied a specific course in your HSC, the proper name of the course is stated – for example, HSC Mathematics Extension 1. See Table 1 on pages 10–12 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. You can assume that as well as the course they have included, institutions also accept courses in the same subject area that challenge higher order thinking and extension courses that enable students to undertake more in-depth study in areas of special interest. For example, if institutions accept Mathematics they also accept HSC Mathematics Extension 1 or HSC Mathematics Extension 2, but not General Mathematics.

If the institution does not require that you 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.

## Course prerequisites (P):

Some courses require you to have achieved a specified standard in an HSC course or equivalent before you will be offered a place in the course.

If you do not have the required course prerequisite/s, you cannot be selected for the institution's course even though you may have met the admission requirements.

Not all institutions have course prerequisites. Of those that do, some are very specific and state a required level you must have achieved in your HSC course. The course prerequisites marked \* have minimum requirements. The minimum requirement or marks are not shown in this booklet – contact the relevant institution for details.

Institutions that do not specify marks state just the HSC course name. This means that you have to attempt the course, but you do not have to achieve a specific mark.

Course prerequisites may also relate to other requirements such as an interview, portfolio or questionnaire.

## Subject prerequisites (SP):

Some subjects in a tertiary course require that you have 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 prerequisite/s but have met the admission requirements for the course, you may still be selected for the course but unable to take the particular subject.

Some institutions require you to have achieved a specific mark or level in your HSC course. The subject prerequisites marked \* have minimum requirements or marks which are not shown in this booklet – contact the relevant institution for details.

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

Subject prerequisites may also relate to other requirements such as an interview, portfolio or questionnaire.

## Interpreting the symbols

INSTITUTION	
<b>Enquiries</b> Contact Institution Postal Address Suburb State Postcode (0x) xxxx xxxx	<b>In Person:</b> Contact Institution Street Address Suburb State <b>Fax:</b> (0x) xxxx xxxx
<b>MAIN AREA OF STUDY</b> Major Studies <i>(Areas of study are generally offered as Bachelor degrees unless Dip, AssocDip or AssocDeg is shown in brackets)</i>	<b>P</b> = Prerequisites <b>SP</b> = Subject Prerequisites <b>A</b> = Assumed Knowledge <b>R</b> = Recommended Studies <b>N</b> = None
<b>ARTS</b> <b>Aboriginal Studies</b> Aboriginal Australian History, Anthropology, Biology, History, Politics, Sociology	<b>N</b> None for first-year units
<b>COMMERCE</b> Marketing and Hospitality Management	<b>P</b> Questionnaire and interview <b>A</b> Mathematics
<b>SCIENCE</b> <b>Computing and Information Systems</b> <b>Electronics</b>	<b>A</b> Mathematics <b>SP*</b> Mathematics <b>R</b> HSC Mathematics Extension 1 or HSC Mathematics Extension 2

## Assumed knowledge (A):

Some institutions assume you have a knowledge of specific HSC courses or equivalent before you begin the course.

If you do not have the assumed level of knowledge but do have a suitable ATAR, you may still be selected for the course but you may find 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 (R):** These are HSC or equivalent or other courses that the institutions suggest will assist you in your chosen tertiary course.

If you have not studied these HSC courses, your chances of selection are not affected.

# Table 1: HSC Board Developed Courses

## to be examined in 2013<sup>#</sup>

<sup>#</sup> correct at time of printing

Below is a list of the HSC Board Developed Courses being examined by the NSW Board of Studies in 2013. The courses appear in alphabetical order by subject area. Languages other than English are listed separately.

The courses are classified by the institutions participating in UAC as either Category A courses or Category B courses. For the purpose of calculating the Australian Tertiary Admission Rank (ATAR), an eligible ATAR pattern of study must include at least eight units of Category A courses and no more than two units of Category B courses.

### For more information about:

- categorisation of ATAR courses – read section 3.3 on page 5
- the Australian Tertiary Admission Rank – read section 3 on pages 4–6

### Definitions:

- subject – is the general name given to an area of study
- course – is a branch of study within a subject. A subject may have several different courses. For example, within the subject English, courses include English (Standard), English (Advanced), HSC English Extension 1, HSC English Extension 2, and English as a Second Language
- HSC Extension courses – enable students to undertake more in-depth study in areas of special interest. Students build on the content of the 2-unit course and carry an additional value of 1 unit
- unit value – all courses have a unit value and each unit involves class time of approximately two hours per week (60 hours per year). In the HSC, each unit has a value of 50 marks, so a 2-unit course has a value of 100 marks.

### CATEGORY A COURSES

Number	Course name	Unit value	Subject
15000	Aboriginal Studies	2	Aboriginal Studies
15010	Agriculture	2	Agriculture
15020	Ancient History	2	Ancient History
15280	HSC History Extension <sup>1</sup>	1	Ancient History
15030	Biology	2	Biology
15040	Business Studies	2	Business Studies
15050	Chemistry	2	Chemistry
15060	Community and Family Studies	2	Community and Family Studies
15070	Dance	2	Dance
15080	Design and Technology	2	Design and Technology
15090	Drama	2	Drama
15100	Earth and Environmental Science	2	Earth and Environmental Science
15110	Economics	2	Economics
15120	Engineering Studies	2	Engineering Studies
15150	English as a Second Language	2	English
15130	English (Standard)	2	English
15140	English (Advanced)	2	English
15160	HSC English Extension 1	1	English
15170	HSC English Extension 2	1	English
15180	Food Technology	2	Food Technology
15190	Geography	2	Geography
15200	Industrial Technology	2	Industrial Technology
15210	Information Processes and Technology	2	Information Processes and Technology
15220	Legal Studies	2	Legal Studies
15230	General Mathematics	2	Mathematics
15240	Mathematics	2	Mathematics
15250	HSC Mathematics Extension 1*	1/2	Mathematics
15260	HSC Mathematics Extension 2	2	Mathematics
15270	Modern History	2	Modern History
15280	HSC History Extension <sup>1</sup>	1	Modern History
15290	Music 1 <sup>2</sup>	2	Music
15300	Music 2 <sup>2</sup>	2	Music
15310	HSC Music Extension <sup>2</sup>	1	Music
15320	Personal Development, Health and Physical Education	2	Personal Development, Health and Physical Education

<b>Number</b>	<b>Course name</b>	<b>Unit value</b>	<b>Subject</b>
15330	Physics	2	Physics
15340	Senior Science	2	Senior Science
15350	Society and Culture	2	Society and Culture
15360	Software Design and Development	2	Software Design and Development
15370	Studies of Religion I <sup>3</sup>	1	Studies of Religion
15380	Studies of Religion II <sup>3</sup>	2	Studies of Religion
15390	Textiles and Design	2	Textiles and Design
15400	Visual Arts	2	Visual Arts
<b>Languages</b>			
15500	Arabic Beginners	2	Arabic
15510	Arabic Continuers	2	Arabic
15520	HSC Arabic Extension	1	Arabic
15530	Armenian Continuers	2	Armenian
15540	Chinese Beginners	2	Chinese
15550	Chinese Continuers	2	Chinese
TBA	Heritage Chinese <sup>11</sup>	2	Chinese
15560	Chinese Background Speakers	2	Chinese
15570	HSC Chinese Extension	1	Chinese
15580	Classical Greek Continuers	2	Classical Greek
15590	HSC Classical Greek Extension	1	Classical Greek
15600	Classical Hebrew Continuers	2	Classical Hebrew
15610	HSC Classical Hebrew Extension	1	Classical Hebrew
15620	Croatian Continuers <sup>4</sup>	2	Croatian
15640	Dutch Continuers	2	Dutch
15660	Filipino Continuers	2	Filipino
15670	French Beginners	2	French
15680	French Continuers	2	French
15690	HSC French Extension	1	French
15700	German Beginners	2	German
15710	German Continuers	2	German
15720	HSC German Extension	1	German
15730	Hindi Continuers	2	Hindi
15740	Hungarian Continuers	2	Hungarian
15750	Indonesian Beginners	2	Indonesian
15760	Indonesian Continuers	2	Indonesian
TBA	Heritage Indonesian <sup>11</sup>	2	Indonesian
15770	Indonesian Background Speakers <sup>5</sup>	2	Indonesian
15780	HSC Indonesian Extension	1	Indonesian
15790	Italian Beginners	2	Italian
15800	Italian Continuers	2	Italian
15810	HSC Italian Extension	1	Italian
15820	Japanese Beginners	2	Japanese
15830	Japanese Continuers	2	Japanese
TBA	Heritage Japanese <sup>11</sup>	2	Japanese
15840	Japanese Background Speakers	2	Japanese
15850	HSC Japanese Extension	1	Japanese
15860	Khmer Continuers	2	Khmer
15880	Korean Continuers	2	Korean
TBA	Heritage Korean <sup>11</sup>	2	Korean
15890	Korean Background Speakers	2	Korean
15900	Latin Continuers	2	Latin
15910	HSC Latin Extension	1	Latin
15940	Macedonian Continuers <sup>4</sup>	2	Macedonian
15950	Malay Background Speakers <sup>5</sup>	2	Malay
15960	Maltese Continuers	2	Maltese
15970	Modern Greek Beginners	2	Modern Greek
15980	Modern Greek Continuers	2	Modern Greek
15990	HSC Modern Greek Extension	1	Modern Greek
16000	Modern Hebrew Continuers	2	Modern Hebrew
16010	Persian Background Speakers	2	Persian

Number	Course name	Unit value	Subject
16020	Polish Continuers	2	Polish
16030	Portuguese Continuers	2	Portuguese
16040	Russian Background Speakers	2	Russian
16050	Serbian Continuers <sup>4</sup>	2	Serbian
16070	Spanish Beginners	2	Spanish
16080	Spanish Continuers	2	Spanish
16090	HSC Spanish Extension	1	Spanish
16100	Swedish Continuers	2	Swedish
16110	Tamil Continuers	2	Tamil
16120	Turkish Continuers	2	Turkish
16130	Ukrainian Continuers	2	Ukrainian
16140	Vietnamese Continuers	2	Vietnamese

### CATEGORY B COURSES

Number	Course name	Unit value	Subject
16150	Accounting <sup>6</sup>	2	Accounting
26099	Automotive (Examination) <sup>7</sup>	2	Automotive <sup>8</sup>
26199	Business Services (Examination) <sup>7</sup>	2	Business Services <sup>8</sup>
26299	Construction (Examination) <sup>7</sup>	2	Construction <sup>8</sup>
26399	Electrotechnology (Examination) <sup>7</sup>	2	Electrotechnology <sup>8</sup>
26499	Entertainment Industry (Examination) <sup>7</sup>	2	Entertainment Industry <sup>8</sup>
26699	Information Technology (Examination) <sup>7</sup>	2	Information Technology <sup>8</sup>
26599	Hospitality (Examination) <sup>7</sup>	2	Hospitality <sup>8</sup>
27199	Human Services (Examination) <sup>9</sup>	2	Human Services
26799	Metal and Engineering (Examination) <sup>7</sup>	2	Metal and Engineering <sup>8</sup>
27899	Primary Industries (Examination) <sup>7</sup>	2	Primary Industries <sup>8</sup>
26999	Retail Services (Examination) <sup>7</sup>	2	Retail Services <sup>8</sup>
27099	Tourism and Events (Examination) <sup>7</sup>	2	Tourism and Events <sup>8</sup>

### To be categorised

27299	Financial Services (Examination) <sup>10</sup>	2	Financial Services
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#### Notes:

- 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, Macedonian, or Serbian.
- 5 A student can only count either Malay Background Speakers or Indonesian Background Speakers in their pattern of study.
- 6 This is a Board Developed Course delivered by TAFE.
- 7 These are 240 hour Vocational Education and Training (VET) courses. An optional written examination is offered for the HSC. If you want the results from these courses to be available for inclusion in the calculation of your ATAR, subject to ATAR eligibility (see section 3.3 on page 5), you must undertake the optional written examination.
- 8 Other courses are available in these VET subject areas. They are not available for inclusion in the calculation of the ATAR as there is no graded assessment in the courses. The courses range from 120 indicative hour courses to 60 or 120 indicative hour extension courses. Specialisation studies are also available in some subject areas. Check with your school or the NSW Board of Studies website at [www.boardofstudies.nsw.edu.au](http://www.boardofstudies.nsw.edu.au) for more information.
- 9 The NSW Board of Studies has developed a Human Services VET Curriculum framework that will be examined for the first time in 2012.
- 10 The NSW Board of Studies has developed a Financial Services VET Curriculum framework that will be examined for the first time in 2013.
- 11 New Heritage language course to be examined for the first time in 2012, course code to be advised.

**English Studies** - students who complete the Stage 6 Content Endorsed course English Studies are not eligible for an ATAR.


**HSC-University Pathways program** - courses studied under the HSC-University Pathways program do not contribute to the ATAR.


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

- Mathematics (2-unit) + HSC Mathematics Extension 1 (1-unit)
- HSC Mathematics Extension 1 (2-unit) + HSC Mathematics Extension 2 (2-unit)

## Strathfield campus (Mt St Mary)

### Enquiries

 Student Centre  
Australian Catholic University  
Locked Bag 2002  
Strathfield NSW 2135

 1300 ASK ACU  
(1300 275 228)


**email:** [futurestudents@acu.edu.au](mailto:futurestudents@acu.edu.au)


**in person:** Student Centre  
25A Barker Road  
Strathfield NSW

**fax:** (02) 9701 4284

## North Sydney campus (MacKillop)

### Enquiries

 Student Centre  
Australian Catholic University  
PO Box 968  
North Sydney NSW 2059

 1300 ASK ACU  
(1300 275 228)


**email:** [futurestudents@acu.edu.au](mailto:futurestudents@acu.edu.au)


**in person:** Student Centre  
40 Edward Street  
North Sydney NSW

**fax:** (02) 9739 2310

## Canberra campus (Signadou)

### Enquiries

 Student Centre  
Australian Catholic University  
PO Box 256  
Dickson ACT 2602

 1300 ASK ACU  
(1300 275 228)

**email:** [futurestudents@acu.edu.au](mailto:futurestudents@acu.edu.au)

**in person:** Student Centre  
223 Antill Street  
Watson ACT

**fax:** (02) 6209 1107

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### ARTS

#### Humanities

Business Studies, Communication, Computing, Economics, Geography, History, Literature, Mathematics, Philosophy, Technology, Theological Studies, Visual Arts

**A** **For Mathematics:** Mathematics (not General Mathematics)

**R** **For Visual Arts:** Visual Arts

### BUSINESS

Accounting, Business Information Systems, Financial Services, Human Resource Management, Marketing

**A** **For Accounting:** Mathematics  
**For Business Information Systems, Human Resource Management, Marketing:** any two units of mathematics

### BUSINESS INFORMATION SYSTEMS

Business Information Systems, Business Intelligence, e-Business

**A** Any two units of mathematics (for those students wishing to undertake Mathematics as a minor study)

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## EDUCATION

<b>Early Childhood+ Primary+</b>	<b>A</b>	Any two units of English (Band 4) and any two units of mathematics (Band 4)
<b>Inclusive Education and Disability Studies</b>	<b>N</b>	None
<b>Secondary – Computing</b>	<b>A</b>	Any two units of English (Band 4)
<b>Secondary – Humanities</b> Economics, Geography, History, Literature, Theological Studies	<b>A</b>	Any two units of English (Band 4)
<b>Secondary – Mathematics</b>	<b>A</b>	Any two units of English (Band 4) and Mathematics (not General Mathematics)
<b>Secondary – Technology</b> Design and Technology	<b>A</b>	Any two units of English (Band 4)
<b>Secondary – Visual Arts</b>	<b>A</b> <b>R</b>	Any two units of English (Band 4) Visual Arts

+ Available at Strathfield and Canberra campuses

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## ENVIRONMENTAL SCIENCE

Biological Science and Chemistry, Ecology, Environmental Management and Planning	<b>R</b>	Any two units of mathematics
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## EXERCISE SCIENCE

Exercise Science, Health and Movement, Sports Science	<b>R</b>	English (Advanced), Mathematics, Personal Development, Health and Physical Education plus one of Biology, Chemistry, Physics
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## NURSING

Clinical Practice, Nursing, Practice Leadership, Science	<b>N</b>	None
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## PHYSIOTHERAPY

	<b>P</b>	Any two units of English plus one of Biology, Chemistry or Physics
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## THEOLOGY

Biblical Studies, Christian Practices, Christian Thought, Liberal Arts, Philosophy, Study of Religion	<b>N</b>	None
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## VISUAL ARTS AND DESIGN

2D Studies, 3D/4D Object Design, Art and Design History, Graphic Design Studio	<b>R</b>	Visual Arts
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## COMBINED DEGREES


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

Australian Catholic University currently offers combined degrees in:

- Arts/Commerce
- Arts/Social Work
- Commerce/Business Information Systems
- Teaching/Arts (Computing)
- Teaching/Arts (Humanities)
- Teaching/Arts (Mathematics)
- Teaching/Arts (Technology)
- Teaching/Arts (Visual Arts)
- Theology/Social Work

## Launceston campus

### Enquiries

 Student Administration Office  
Australian Maritime College  
Locked Bag 1399  
Launceston TAS 7250

 1300 363 864

**fax:** (03) 6326 6493

**in person:** Prospective Student Adviser  
Australian Maritime College/UTAS  
Student Centre  
Newnham TAS

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### APPLIED SCIENCE

#### Marine

**P** General Mathematics, any two units of English and a Science subject

**R** HSC Mathematics Extension 1, English (Standard), Biology or Chemistry

#### Maritime Technology Management

**P** General Mathematics

**A** Completion of Year 12, including any two units of English

**R** Mathematics and Physics or Chemistry

### BUSINESS

#### Maritime and Logistics Management (Adv Dip)

**P** Completion of Year 12, including any two units of English

#### Maritime and Logistics Management

**P** Completion of Year 12, including any two units of English

#### Maritime and Logistics Management (Dip)

**P** Completion of Year 12, including any two units of English

### ENGINEERING

#### Marine and Offshore Systems, Naval Architecture, Ocean Engineering

**P** Mathematics and a science subject

**R** HSC Mathematics Extension 1 and Physics or Chemistry

**Note:** Bridging courses in Mathematics and Physics are available for students who have not completed these subjects. Visit [www.futurestudents.utas.edu.au](http://www.futurestudents.utas.edu.au)

## Enquiries



Admissions Office  
Pauline Griffin Building (11)  
The Australian National University  
Canberra ACT 0200

**in person:** Student Enquiry Counter  
Ground Floor, Pauline Griffin Building  
The Australian National University  
Ellery Crescent, Acton ACT



(02) 6125 5594 or Freecall 1800 620 032

**fax:** (02) 6125 0751

**email:** [admiss.enq@anu.edu.au](mailto:admiss.enq@anu.edu.au)

### Important note to international students undertaking the ACT Year 12 qualification onshore or offshore considering courses at the ANU

International applicants completing the ACT Year 12 Certificate from 2012 onwards will be required to achieve a result of at least 170 in English as a Second language T major or any result in an English T major for entry to the ANU. Please ensure that you take this into account when selecting subjects for Years 11 and 12.

#### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

#### ACTUARIAL STUDIES

Accounting, Actuarial Studies, Economics, Finance, Statistics

**P\*** **ACT:** Specialist Mathematics (major/minor) (160+)  
**NSW:** HSC Mathematics Extension 1 (Band E3 or equivalent)

**R** **ACT:** Specialist Mathematics (double major)  
**NSW:** HSC Mathematics Extension 2

#### ADVANCED COMPUTING

**P** **ACT:** Mathematical Methods  
**NSW:** Mathematics

**R** **ACT:** Specialist Mathematics (major/minor)  
**NSW:** HSC Mathematics Extension 1

#### ART (Dip)

Ceramics, Glass, Gold and Silversmithing, Painting, Photomedia, Printmedia and Drawing, Sculpture, Textiles, Wood

**P** Interview and portfolio

#### ARTS

American Studies, Ancient Greek, Ancient History, Anthropology, Applied Linguistics, Arabic, Archaeology, Art History, Art Theory, Arts and Music Management, Australian Studies, Biological Anthropology, Chinese Language, Classics, Contemporary Europe, Creative Recording Practice, Development Studies, Drama, English, Environmental Studies, European History, Film Studies, Forensic Anthropology, French, Gender, Sexuality and Culture, Geography, German, Health, Medicine and the Body, Hindi, History, Human Ecology, Human Sciences, Indigenous Australian Studies, Indonesian, Instrumental Pedagogy, International Communication, International Relations, Italian, Japanese, Korean,

**N** None

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ARTS (continued)**

Latin, Linguistics, Mathematics, Musicology, New Media Arts, Pacific Language, Persian, Philosophy, Political Science, Population Studies, Psychology, Sanskrit, Social Research Methods, Sociology, Spanish, Thai, Urdu, Vietnamese

**Archaeological Practice****Art History and Curatorship****Classical Studies****Development Studies****European Studies****International Relations****Policy Studies****N** None**ASIA-PACIFIC STUDIES**

Arabic, Chinese Studies, Classical and Modern Chinese, Hindi, Indonesian, Indonesian Studies, Japanese, Japanese Linguistics, Japanese Studies, Korean, Northeast Asian Studies, Pacific Languages, Pacific Studies, Sanskrit, Security Studies, Southasian Studies, Southeast Asian Studies, Thai, Urdu, Vietnamese

*Note: Native speakers may not normally specialise in their own language***N** None. Previous study in an Asian language would be helpful.**BIOTECHNOLOGY**

Biochemistry, Bioinformatics, Biotechnology, Chemistry, Genetics, Microbiology, Molecular Biology

**P** **ACT:** A major in Chemistry  
**NSW:** Chemistry**BUSINESS ADMINISTRATION**

Business, International Business, Leadership, Management, Marketing,

**N** None**COMMERCE**

Accounting, Business Information Systems, Corporate Sustainability, Finance, International Business, Management, Marketing

**A** **ACT:** Mathematical Methods (major)  
**NSW:** Mathematics**COMPUTATIONAL SCIENCE (HONOURS)**

Advanced Computational Systems, Computer Science Mathematical and Computational Modelling

**P** **ACT:** Specialist Mathematics (major/minor)  
**NSW:** HSC Mathematics Extension 1**COMPUTER SCIENCE (HONOURS)****P\*** **ACT:** Specialist Mathematics (major/minor)  
**NSW:** HSC Mathematics Extension 1  
**R** **ACT:** Specialist Mathematics (double major)  
**NSW:** HSC Mathematics Extension 2**DESIGN ARTS**

Ceramics, Furniture, Glass, Gold and Silversmithing, Textiles

**P** Interview and portfolio**DIGITAL ARTS**

Animation, Digital Media, Hybrid Creative Practice, Internet Art, Sound Art, Video

**P** Interview and portfolio**ECONOMICS**

Econometrics, Economic History, Economics, Finance, Statistics

**A** **ACT:** Mathematical Methods (major)  
**NSW:** Mathematics

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## ENGINEERING

Electronics and Communication Systems, Manufacturing and Management Systems, Mechanical and Materials, Mechatronic Systems, Photonics Systems, Renewable Energy and Sustainable Systems

**P** **ACT:** Mathematical Methods (major)

**NSW:** Mathematics

**A** **ACT:** Physics major

**NSW:** Physics

**R** **ACT:** Specialist Mathematics (major/minor)

**NSW:** HSC Mathematics Extension 1

## ENGINEERING (RESEARCH AND DEVELOPMENT)

**P** **ACT:** Specialist Mathematics (major/minor)

**NSW:** HSC Mathematics Extension 1

**A** **ACT:** Physics major

**NSW:** Physics

**R** **ACT:** Specialist Mathematics (double major)

**NSW:** HSC Mathematics Extension 2

## FINANCE

Accounting, Corporate Finance and Investment Management, Econometrics, Economics, Quantitative Finance, Statistics

**A** **ACT:** Mathematical Methods (major)

**NSW:** Mathematics

## GENETICS

Bioinformatics, Evolutionary Genetics, Genetics, Mendelian, Molecular and Medical Genetics, Population

**P** **ACT:** A major in Chemistry

**NSW:** Chemistry

## INFORMATION TECHNOLOGY

Information Systems, Software Development

**P** **ACT:** Mathematical Methods (major)

**NSW:** Mathematics

## INTERNATIONAL BUSINESS

Asian, European or Middle Eastern Language, Business, Economics, Statistics

**A** **ACT:** Mathematical Methods (major)

**NSW:** Mathematics

## LANGUAGES

Ancient Greek, Arabic, Chinese, French, German, Hindi, Indonesian, Italian, Japanese Language or Linguistics, Korean, Latin, Persian, Sanskrit, Spanish, Thai, Urdu, Vietnamese

**N** None. Previous studies in an Asian language would be helpful

## LAW

### LAW (COMBINED)

The following combined law courses are also offered:

Actuarial Studies/Law

Arts/Law

Asia-Pacific Studies/Law

Business Administration/Law

Commerce/Law

Economics/Law

Finance/Law

Information Technology/Law

Music/Law

Science/Law

Science (Psychology)/Law

Science (Resource and Environmental Management)/Law

**P** **For Law:** None

**For the other area of study:** Refer to the relevant entry

## MEDICAL SCIENCE

Biochemistry, Genetics, Immunology, Medical Science, Microbiology, Molecular Biology, Physiology

**P** **ACT:** A minor in Chemistry

**NSW:** Chemistry

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## MUSIC

Composition, Jazz, Musicology, Performance in: Brass, Guitar, Harp, Percussion, Piano, Strings, Voice, Woodwind

**P** Audition, interview and diagnostic tests

### Professional Music Practice

**P** Audition, interview and diagnostic tests plus ATAR

## SCIENCE

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, Waterscience and Policy

**SP\* or A<sup>+</sup>** Some science courses have subject prerequisites or assumed knowledge of Mathematics, Physics or Chemistry (ACT) or Mathematics, Physics or Chemistry (NSW).

### Forestry

Botany, Earth Science, Ecology, Environment and Society, Environmental Science and Management, Forest Science and Management, Geography, Land Management, Resource Planning and Management

**N** None

### Global and Ocean Sciences

Biology, Chemistry, Ecology, Geography, Geology, Geophysics, Mathematics, Policy Studies

**P\*** **ACT:** Mathematical Methods major  
Chemistry major  
**NSW:** Mathematics and Chemistry

### Interdisciplinary Studies (Sustainability)

Biological Anthropology, Corporate Sustainability, Development Studies, Earth and Environmental Science, Ecology and Evolution, Environmental Modelling, Environmental Policy, Environmental Studies, Forest Science, Genetics, Geography, Geology, Global Change Science, Human Ecology, Human Sciences, International Communication, Policy Studies, Psychology, Scientific Communication, Sustainable Energy Systems, Water Science and Policy, Zoology plus two majors from any ANU College except Law

**SP\*/A<sup>+</sup>** Some science courses have subject prerequisites or assumed knowledge of at least a major or minor in Mathematics, Physics or Chemistry (ACT) or Mathematics, Physics or Chemistry (NSW).

### Psychology

Specialising in the areas of abnormal, biological, cognitive, developmental and social psychology and including a major from Science or another Faculty

**N** None

### Resource and Environmental Management

Ecological Studies, Environment and Society, Environmental Biology, Environmental Management Studies, Forestry, Geographic Information Systems, Geography, Geology, Resource Management, Soil and Land Management, Vegetation and Wildlife Management

**N** None

### Science Communication

Science Communication plus areas listed under 'Science' above

**N** None

<sup>+</sup> Contact the Australian National University for more information about subject prerequisites, assumed knowledge for particular science courses.

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## SECURITY STUDIES

Asia-Pacific Region

**N** None. Previous studies in an Asian language would be helpful.

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

## SOCIAL SCIENCE (HONOURS IN ACTUARIAL STUDIES AND ECONOMICS)

Accounting, Actuarial Studies, Economics, Finance, Statistics

**P\*** **ACT:** Specialist Mathematics (major/minor) (160+)

**NSW:** HSC Mathematics Extension 1 (Band E3 or equivalent)

**R** **ACT:** Specialist Mathematics (double major)

**NSW:** HSC Mathematics Extension 2

## SOFTWARE ENGINEERING

Computer Architecture, Computer Systems, Programming, Software Analysis, Design and Development, Software Engineering Practice

**P** **ACT:** Mathematical Methods (major)

**NSW:** Mathematics

**R** **ACT:** Specialist Mathematics (major/minor)

**NSW:** HSC Mathematics Extension 1

*Note:*

1. Students can select a major from other areas in the university. Popular options include Electronics, Communications and Mechatronics.

2. Although students learn what is listed, they are not set areas of specialisations/majors.

## STATISTICS

Business Statistics, Econometrics, Financial Statistics, Mathematical Statistics, Psychological or Social Research Methods

**P\*** **ACT:** Specialist Mathematics (major/minor) (160+)

**NSW:** HSC Mathematics Extension 1 (Band E3 or equivalent)

**R** **ACT:** Specialist Mathematics (double major)

**NSW:** HSC Mathematics Extension 2

## VISUAL ARTS

Ceramics, Digital Media, Glass, Gold and Silversmithing, Painting, Photomedia, Printmedia and Drawing, Sculpture, Textiles, Wood

**P** Interview, portfolio and drawing session

**\* Prerequisites and subject prerequisites marked with an asterisk have minimum requirements. Contact the Australian National University for further details.**

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## 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.

The Australian National University currently offers combined degrees in:

- Actuarial Studies/Commerce
- Actuarial Studies/Economics
- Actuarial Studies/Finance
- Actuarial Studies/Science
- Actuarial Studies/Statistics
- Arts/Asia Pacific Studies
- Arts/Commerce
- Arts/Digital Arts
- Arts/Economics
- Arts/Information Technology
- Arts/Music
- Arts/Science
- Arts/Science (Psychology)
- Arts/Visual Arts
- Asia-Pacific Studies/Visual Arts
- Asia-Pacific Studies/Commerce
- Asia-Pacific Studies/Economics
- Asia-Pacific Studies/Engineering
- Asia-Pacific Studies/Science
- Asia-Pacific Studies/Science (Forest Science)
- Business Administration/Arts
- Business Administration/Asia-Pacific Studies
- Business Administration/Information Technology
- Business Administration/Music
- Business Administration/Professional Music Pract.
- Business Administration/Science
- Business Administration/Science (Psychology)
- Commerce/Economics
- Commerce/Engineering
- Commerce/Information Technology
- Commerce/Music
- Commerce/Science (Forest Science)
- Commerce/Science (Psychology)
- Commerce/Statistics
- Economics/Finance
- Economics/Information Technology
- Economics/Science (Psychology)
- Economics/Statistics
- Engineering/Arts
- Engineering/Economics
- Engineering/Information Technology
- Engineering/Science
- Engineering (Research and Development)/Science
- Finance/Science
- Finance/Statistics
- Information Technology/Science (Forest Science)
- Music/Asia-Pacific Studies
- Music/Science
- Music/Science (Psychology)
- Science/Commerce
- Science/Economics
- Science/Science (Forest Science)
- Science (Forest Science)/Economics
- Science (Psychology)/Science
- Software Engineering/Commerce
- Software Engineering/Science
- Visual Arts/Music

Combined degrees in law are also offered – refer to main entry for details.

## CONCURRENT COLLABORATIVE DEGREES WITH THE UNIVERSITY OF CANBERRA (UC)

Asia-Pacific Studies/Education (Secondary Teaching)

- see ANU entry for Asia-Pacific Studies
- see UC entry for Education

Education (Secondary Teaching)/Science

- see ANU entry for Science
- see UC entry for Education


## PREPARATORY COURSES AT SCHOOL OF MUSIC


Specialist courses for Years 11 and 12 in classical music and jazz – contact (02) 6125 2898 for further information

**P** Audition and diagnostic tests

## Canberra campus

### Enquiries

 Student Services Hub  
Canberra Institute of Technology  
PO Box 826  
Canberra ACT 2601

 (02) 6207 3188

**fax:** (02) 6207 3177

**email:** infoline@cit.edu.au

**in person:** **Reid campus**  
Ground floor building A  
Constitution Avenue  
Reid ACT

**Southside campus**  
Ground floor building A  
Ainsworth Street  
Phillip ACT

**Bruce campus**  
Ground floor building H  
Vowels Crescent  
Bruce ACT

**Fyshwick campus**  
Ground floor building E  
Mildura Street  
Fyshwick ACT

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### DESIGN

**Fashion Design**

**P** **ACT:** English major at T level (130)  
**NSW:** English (Advanced) (Band 3)

### GAMES AND VIRTUAL WORLDS PROGRAMMING

**P** **ACT:** Mathematics Methods major or Specialist Mathematics major; English major

**NSW:** Mathematics; English (Advanced)

**R** **ACT:** Specialist Mathematics (major/minor)

**NSW:** HSC Mathematics Extension 1

### FORENSIC SCIENCE

**Crime Scene Examination**

**P** **ACT:** Mathematics Methods major (130) or Mathematics Applications major (142); any science subject major (130); English major (130)

**NSW:** Mathematics (Band 3) or General Mathematics (Band 4); any two units of science (Band 3); English (Advanced) (Band 3)

### PHOTOGRAPHY

**A** **ACT:** Photography  
**NSW:** Visual Arts

## Enquiries



Info.csu  
Charles Sturt University  
Panorama Avenue  
Bathurst NSW 2795



1800 334 733

**fax:** (02) 6338 6001

### in person:

#### Albury-Wodonga campus

Prospective Student Adviser  
Building 673  
Charles Sturt University  
Elizabeth Mitchell Drive  
Thurgoona NSW

#### Canberra (Theology students)

Dean of Students  
St Marks Theological Centre  
15 Blackall Street  
Barton ACT

#### Orange campus

Prospective Student Adviser  
Charles Sturt University  
Leeds Parade  
Orange NSW

#### Wagga Wagga campus

Prospective Student Adviser  
Building 481  
Charles Sturt University  
Boorooma Street  
Wagga Wagga NSW

#### Bathurst campus

Prospective Student Adviser  
Building N16  
Charles Sturt University  
Panorama Ave  
Bathurst NSW

#### Dubbo campus

Course Enquiries  
Charles Sturt University  
Yarrandale Road  
Dubbo NSW

#### Parramatta campus

United Theological College  
16 Masons Drive  
North Parramatta NSW

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### AGRICULTURE

Agribusiness, Agronomy, Animal Science,  
Equine Science, Livestock Production

**A** Chemistry and Mathematics

Agricultural Business Management  
(Farm, Horticultural, Land, Viticultural)

**N** None

### APPLIED SCIENCE

Adventure Ecotourism Management,  
Parks Recreation and Heritage

**P** **For Adventure Ecotourism Management:**  
Supplementary Application Form

**N** **For Parks Recreation and Heritage:** None

Library and Information Management

**A** Any two units of English, Mathematics and  
Information Processes and Technology

Viticulture and Wine Science

**R** Chemistry and Mathematics and Biology

### ARTS

Art History, English, History, Philosophy,  
Psychology, Sociology, Theology

**N** None

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## BUSINESS

Accounting, Banking, Business Management, Business Studies, Finance, Human Resource Management, Insurance, Marketing

**A** Mathematics

## COMMUNICATION AND CREATIVE INDUSTRIES

Acting for Screen and Stage

**P** Audition

Advertising, Commercial Radio, Public Relations and Organisational Communication

**P** Questionnaire and interview

Animation and Visual Effects, Graphic Design, Photography, Television Production

**R** Visual Arts or Design and Technology

Design for Theatre and Television

**A** Visual Arts or Design and Technology  
**R** Portfolio, interview or project optional

Jewellery

**A** Visual Arts or Design and Technology

Journalism

**P** Questionnaire

Theatre Media

**P** Questionnaire and audition and interview

## EDUCATION

Early Childhood, Middle Schooling, Primary, Secondary (English; Health and Physical Education; Mathematics; Science; Technology and Applied Studies)

**A** Any two units of English (Band 4) and any two units of mathematics

Music

**A** **For Music Education:** Grade 4 Theory and/or Musicianship and Grade 6 Performance

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## ENVIRONMENTAL SCIENCE

Adventure Ecotourism Management, Environmental Science and Management, Recreation and Heritage

**P** **For Adventure Ecotourism Management:** Supplementary Application Form

**R** Mathematics and any two units of science or Geography

**N** **For Environmental Science and Management, Recreation and Heritage:** None

## EXERCISE SCIENCE

Business Studies, Exercise Science, Personal Development, Health and Physical Education, Rehabilitation, Sports Journalism, Sports Psychology, Sports Science, Sports Studies, Teaching

**A** Mathematics and any two units of English

## FORENSIC BIOTECHNOLOGY

**A** Chemistry and Mathematics

## HEALTH SCIENCE

Clinical Practice (Paramedic)

**P** Supplementary Application Form

**A** English (Standard)

**R** Senior Science, Chemistry and Biology, First Aid Training and Medical Terminology

Clinical Science

**P** Supplementary Application Form

**A** Chemistry and Mathematics

Dental Science

**P** Questionnaire and interview

**A** Mathematics, Chemistry, Physics, English (Standard)

Health and Rehabilitation Science

**A** English (Standard)

**R** Biology

Leisure and Health

**N** None

Nutrition and Dietetics

**A** Chemistry and Mathematics

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## HEALTH SCIENCE (continued)

Occupational Therapy	<b>A</b>	Biology
	<b>R</b>	English (Standard)
Oral Health (Hygiene/Therapy)	<b>P</b>	Supplementary Application Form
	<b>A</b>	English (Standard) and Chemistry or Biology
	<b>R</b>	First aid training
Podiatry	<b>R</b>	Chemistry, Physics, Biology
Physiotherapy	<b>A</b>	Physics and Biology and Mathematics and English (Standard)
	<b>R</b>	Chemistry
Speech Pathology	<b>A</b>	English (Standard) and Biology

## INFORMATION TECHNOLOGY

Business Services, Computer Games Technology, Computer Science, Computer Studies	<b>A</b>	Mathematics
Information Computing, Information Technology	<b>N</b>	None

## MEDICAL RADIATION SCIENCE

Medical Imaging, Nuclear Medicine	<b>A</b>	Physics and Mathematics
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## MEDICAL SCIENCE

Clinical Physiology, Medical Science, Pathology	<b>A</b>	Mathematics and Chemistry
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## NURSING

<b>A</b>	English (Standard) and any two units of science
<b>R</b>	Personal Development Health and Physical Education and Mathematics and Biology, First Aid Certificate

## PHARMACY

<b>P</b>	Interview and Supplementary Application Form
<b>A</b>	Mathematics and Chemistry
<b>R</b>	Biology or Physics

## SCIENCE

Biology, Chemistry, Forensic Chemistry, Mathematics, Microbiology, Spatial Science	<b>A</b>	Mathematics and any two units of science
	<b>R</b>	Chemistry or Physics

## SOCIAL SCIENCE

Criminal Justice, Justice Studies, Psychology, Social Work	<b>N</b>	None
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## VETERINARY SCIENCE

<b>P</b>	Interview and Supplementary Application Form
<b>A</b>	Mathematics and Chemistry

## 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.


Charles Sturt University currently offers combined degrees in:

- Advertising/Marketing
- Arts/Social Work
- Business/Information Technology
- Communication/Business Studies
- Exercise Science/Business
- Graphic Design/Business
- Medical Science/Forensic Biotechnology
- Photography/Graphic Design
- Public Relations/Business
- Secondary Teaching/Arts
- Secondary Teaching/English
- Secondary Teaching/Mathematics
- Secondary Teaching/Psychology
- Secondary Teaching/Science
- Social Science (Psychology)/Business
- Sports Studies/Journalism

## Gold Coast campus

### Enquiries

 Student Administration  
Griffith University  
PMB 50  
Gold Coast Mail Centre  
QLD 9726

 (07) 5552 8933  
Freecall 1800 677 728

**in person:** Student Administration  
Griffith University  
Gold Coast campus  
Parklands Drive  
Southport QLD 4215  
  
Centre for Medicine and Oral Health  
16-30 High St  
Southport QLD 4215

**fax:** (07) 5552 8706

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites  
**SP** = Subject Prerequisites  
**A** = Assumed Knowledge  
**R** = Recommended Studies  
**N** = None

### ARTS

Communication and Journalism, Creative Writing and Literature, Creativity and Cultural Practice, History and Cultural Heritage, Islamic Studies, Languages and Cultures, Screen Studies and Production, Sociology

**N** None

### BUSINESS

Employment Relations, Event Management, Hotel Management, Human Resource Management, International Business, Logistics and Supply Chain Management, Management, Marketing, Real Estate and Property Development, Sport Management, Tourism Management

**N** None

### BIOMEDICAL SCIENCE

**P** Mathematics plus one of Biology, Physics or Chemistry

### COMMERCE

Accounting, Economics, Finance, Finance Planning

**N** None

### COMMUNICATION

Communication and Media Studies, Creative Communication, Digital Communication, Industries and Practice, Intercultural Communication, Italian Studies, Japanese, Journalism, Marketing, Media and Culture, News and Magazine Photography, Political Communication, Popular Music, Public Relations, Spanish, Writing

**N** None

### DIGITAL MEDIA

3D Design  
Digital Design  
ePhotojournalism  
Fine Art  
Graphic Design

**N** None

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**EDUCATION (PRIMARY)****N** None*Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.***ENGINEERING**

Advanced Studies

**P** Mathematics

Civil

**A** One of Chemistry or Physics

Electrical and Electronic

Mechatronics and Mechanical

Sport and Biomedical

**ENGINEERING TECHNOLOGY****P** Mathematics**A** One of Chemistry or Physics**ENVIRONMENTAL DESIGN**

Architectural Studies

**R** Mathematics or General Mathematics

Environmental Sustainability

**EXERCISE SCIENCE****EXERCISE SCIENCE (PRE-PHYSIOTHERAPY)/  
MASTER OF PHYSIOTHERAPY****P** One of Biology, Chemistry, Physics  
or Mathematics**HEALTH SCIENCE**Anatomy and Physiology,  
Biochemistry and Molecular Biology,  
Human Genetics, Microbiology**P** One of Biology, Chemistry, Physics  
or Mathematics**INFORMATION TECHNOLOGY  
BUSINESS INFORMATION SYSTEMS****A** Mathematics or General Mathematics**JOURNALISM**Arts and Creative Industries, Contemporary Arts,  
Cultural Sociology, Digital Video, Digital Writing,  
Economics, ePhotojournalism, Event Management,  
Film Criticism, Indigenous Studies, International  
Relations, Marketing, Politics, Popular Music, Public  
Relations, Sport Management, Tourism, Writing**N** None**LAW****N** None**LAW (COMBINED)**

The following combined law courses are available:

Arts/Law

Business/Law

Commerce/Law

International Business/Law

Politics, Government and International Relations/Law

Psychological Science/Law

**N** None**MEDICAL LABORATORY SCIENCE****P** Mathematics plus one of Biology, Chemistry or  
Physics**MEDICAL SCIENCE****P** Mathematics plus one of Biology, Chemistry or  
Physics

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**MULTIMEDIA**

Digital Video, Interactive Entertainment and Games Programming, Internet Computing, Internet Marketing, Management, Music Production and Programming, Visual Media Design

**A** Mathematics or General Mathematics**MULTIMEDIA (INTERACTIVE ENTERTAINMENT)****A** Mathematics or General Mathematics**NURSING****N** None**NUTRITION AND DIETETICS****P** One of Biology, Chemistry, Physics or Mathematics**ORAL HEALTH**Dental Science  
Dental Technology**P** One of Biology, Chemistry, Physics or Mathematics**PHARMACEUTICAL SCIENCE****P** Mathematics plus one of Biology, Chemistry, or Physics**POLITICS, ASIAN STUDIES AND INTERNATIONAL RELATIONS**

Asian and International Studies, International Relations, Politics and Government

**N** None**POPULAR MUSIC****P** Audition and portfolio**PSYCHOLOGICAL SCIENCE****N** None**PSYCHOLOGY****N** None**PUBLIC HEALTH**

Environmental Health and Sustainability, Health Promotion, Nutrition

**R** **For Environmental Health and Sustainability, and Nutrition:**  
One of Chemistry, Mathematics or General Mathematics**SCIENCE**

Applied Biology, Applied Chemistry, Ecotourism, Environmental Science, Marine Biology, Wildlife Biology

**P** Mathematics or General Mathematics  
**R** One of Biology, Chemistry or Physics**MARINE SCIENCE**

Same major studies as Science

**P** Mathematics  
**R** One of Biology, Chemistry or Physics**SCIENCE (ECOLOGY AND CONSERVATION BIOLOGY)****A** Mathematics or General Mathematics  
**R** One of Biology, Chemistry or Physics

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**SOCIAL WORK****N** None**URBAN AND ENVIRONMENTAL PLANNING****R** Mathematics or General Mathematics**COMBINED DEGREES**


Griffith University also offers a range of combined degree programs. Students should apply for a single degree program, then approach Griffith University to request an internal transfer for a related double degree program.


- Arts/Business
- Arts/Commerce
- Business/Communication
- Business/Digital Media
- Business/Journalism
- Business/Psychological Science
- Engineering/Business (Management)
- Engineering/Information Technology
- Engineering/Science
- Exercise Science/Psychological Science
- Griffith Business School Double Degree Programs
- Information Technology/Multimedia
- Urban and Environmental Planning/Science



## Albury-Wodonga campus

### Enquiries

 Future Students Adviser  
La Trobe University  
Albury-Wodonga campus  
PO Box 821  
Wodonga Vic 3689

 (02) 6024 9785

**in person:** Student Administration  
Ground Floor, Main Building  
University Drive  
(off Moorefield Park Drive)  
Wodonga Vic

**fax:** (02) 6024 9777

## Mildura campus

### Enquiries

 Student Administration  
La Trobe University  
Mildura campus  
PO Box 4095  
Mildura VIC 3502

 (03) 5051 4069

**in person:** Student Administration  
471 Benetook Avenue  
Mildura VIC

**fax:** (03) 5022 0043

### READ THIS FIRST

For up-to-date information, contact the respective course Selection Officer at the department/faculty or school listed below before making any final decisions regarding your choice of HSC courses.

#### Albury-Wodonga campus

Arts	Faculty of Humanities and Social Sciences	(03) 9479 2023
Business, Accounting	Faculty of Law and Management	(02) 6024 9850
Nursing, Social Work	Faculty of Health Sciences	(02) 6024 9730
Occupational Therapy, Paramedic, Physiotherapy, Podiatry, Speech Pathology	Faculty of Health Sciences	(03) 5444 7411
Psychology	School of Psychological Sciences	(02) 6024 9895
Science	Dept of Environmental Management and Ecology	(02) 6024 9885

#### Mildura campus

Arts	Faculty of Humanities and Social Sciences	(03) 9479 2023
Business, Accounting	Faculty of Law and Management	(03) 5051 4020
Education	Faculty of Education	(03) 5051 4005
Nursing, Social Work	Faculty of Health Sciences	(02) 6024 9730
Occupational Therapy, Paramedic, Physiotherapy, Podiatry, Speech Pathology	Faculty of Health Sciences	(03) 5444 7411
Visual Arts/Graphic Design	Faculty of Humanities and Social Sciences	(03) 5051 4030

#### MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

#### ARTS

English<sup>+</sup>, History<sup>+</sup>, Social Sciences<sup>+</sup>, Sociology

**P\*** Any two units of English

<sup>+</sup> Available at Mildura as well as Albury-Wodonga.

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## BUSINESS, ACCOUNTING

Accounting, Business (Management, Marketing<sup>+</sup>, Logistics, Sustainable Resource Management)

**P\*** Any two units of English plus any two units of mathematics Year 11 or 12

<sup>+</sup> Marketing is the only major offered at Mildura.

## EDUCATION

Primary

**P\*** Any two units of English and any two units of mathematics

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## NURSING (PRE-REGISTRATION)<sup>#</sup>

**P\*** Any two units of English

## OCCUPATIONAL THERAPY/SPEECH PATHOLOGY

**P\*** Any two units of English plus one of Biology, Chemistry, Mathematics, Personal Development, Health and Physical Education or Physics

## PARAMEDIC PRACTICE

**P\*** Any two units of English plus two of Biology, Chemistry, Health and Human Development, Mathematics, Personal Development, Health and Physical Education, Physics

## PHYSIOTHERAPY/PODIATRY

**P\*** Any two units of English plus two of Biology, Chemistry, Mathematics, Personal Development, Health and Physical Education or Physics

## PSYCHOLOGICAL SCIENCE<sup>#</sup>

Psychology

**P\*** Any two units of English

## SCIENCE<sup>#</sup>

**P** Any two units of English and Mathematics (not General Mathematics)

## SCIENCE<sup>#</sup>

Agricultural Science<sup>+</sup>, Biological Science<sup>+</sup>, Environmental Management and Ecology, Science (Wildlife and Conservation Biology)<sup>+</sup>

**P** Any two units of English

<sup>+</sup> First year only at Albury-Wodonga. Students transfer to Bundoora (Melbourne) from second year.

## SOCIAL WORK

**P\*** Any two units of English

## VISUAL ARTS

Graphic Design, Visual Arts


**P\*** Any two units of English


**\* Prerequisites marked with an asterisk have minimum requirements.**

**# Bonus points are awarded for relevant subjects in this course.**

**Contact La Trobe University for further details.**

## Enquiries

 Coursework Studies Section  
Macquarie University  
NSW 2109

 (02) 9850 6410

**in person:** Student Enquiry Service  
Lincoln Building  
Balaclava Road  
North Ryde NSW

**fax:** (02) 9850 7249

### READ THIS FIRST

- There are no course prerequisites for entry into degree courses at Macquarie University.

The information listed as Subject Prerequisites (SP), Assumed Knowledge (A) and Recommended Studies (R) refers to the main first-year units in the area of study concerned.

In all cases, where a minimum level of achievement or an HSC course is listed as a prerequisite or assumed knowledge, Macquarie University provides elementary units. These elementary or introductory units are designed to bring candidates up to the level required for progression in the subject at the University. The elementary units count toward the requirements for the degree, but students who must complete the elementary units may require up to one additional year of study to complete the degree. Introductory units also provide an option for students with no background in the subject area, or for those who do not intend to continue beyond the first-year level in the area of study.

- When you read '**Mathematics**' this refers to the HSC course titled Mathematics, not General Mathematics.

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### APPLIED FINANCE

**A** Mathematics

**R** HSC Mathematics Extension 1

### ARTS

#### ARTS WITH EDUCATION

Ancient History (Egypt and Near East), Ancient History (Greece, Rome and Late Antiquity), Anthropology, Chinese Studies, Contemporary Music, Creative Arts, Croatian Studies, Cultural Studies, Dance, Development Studies and Cultural Change, Education, English, French Studies, Gender Studies, Geography, German Studies, Human Geography, Indigenous Studies, International Communication, Italian Studies, Japanese Studies, Linguistics, Media, Culture and Communication, Modern Greek Studies, Modern History, Museum Studies, Philosophy, Polish Studies, Politics and International Relations, Psychological Science, Russian Studies, Sociology, Spanish and Latin American Studies, Statistics, Writing

**N** For Ancient or Modern History, Anthropology, Contemporary Music, Creative Arts, Cultural Studies, Dance, Development Studies, Education, English, Gender Studies, Geography, Human Geography, Linguistics, Philosophy, Politics, Sociology Statistics, Writing majors: None

**SP** For Language majors: Chinese, Croatian, French, German, Italian, Japanese, Modern Greek, Polish, Russian, Spanish

For introductory units: None

**R** For Psychological Science: Mathematics

**A** For intending primary teachers in NSW schools: Any two units of English (Band 4), and two units of mathematics

**A** For intending secondary teachers in NSW schools: Any two units of English (Band 4)

*Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.*

Environmental Management

Refer to Science

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ARTS (continued)****Science subjects may be taken as majors within an Arts degree**

Astronomy and Astrophysics, Biological Chemistry, Chemistry, Computing, Electronics, Geochemistry, Geochemistry, Geography, Human Geography, Mathematics, Mathematical Physics, Physics

**SP\*, A, R**

Refer to Science for subject prerequisites assumed knowledge and recommended studies for Science majors taken within an Arts degree

**ARTS-MEDIA**

Animation, Audio, Digital Media, Games and Interactivity, Media Theory, Multimedia, Public Relations, Radio, Screen Production, Soundtracks, Writing

**N** None for first-year units**BUSINESS ADMINISTRATION  
BUSINESS ADMINISTRATION WITH ARTS  
BUSINESS ADMINISTRATION WITH SCIENCE****A** General Mathematics**CHIROPRACTIC SCIENCE****SP** Chemistry (students without Chemistry are required to complete an extra unit of Chemistry)**R** Biology, Chemistry, Physics and Mathematics**COMMERCE****Accounting****A** General Mathematics**Actuarial Studies****SP\*** HSC Mathematics Extension 1**R** HSC Mathematics Extension 2**Applied Econometrics, Business Demographics, Decision Science, Economics, Finance****A** Mathematics**R** HSC Mathematics Extension 1**Business Information Systems, Commercial Law, Human Resources, International Business, Management****A** General Mathematics (students with General Mathematics or with minimal mathematics can take a mathematics unit in their first year)**R** Mathematics**Marketing****A** General Mathematics**R** Mathematics**COMMERCIAL LAW****A** General Mathematics**COMPUTING AND INFORMATION TECHNOLOGY****Business Information Systems**

Business Analysis, Computer Systems, Databases, System Analysis

**Computer Engineering****SP\*** For Computer Engineering and Software Engineering: Refer to Engineering**eBusiness****R** For eBusiness: Mathematics

eCommerce, Database, Networks, Programming, Technology Management, Web Technology

**Information Technology****For all other majors:**

Computer Science, Databases and Technology, Information Technology, Networks and Programming, Programming, Software Engineering, Web Technology

**A** Mathematics**R** HSC Mathematics Extension 1 or

HSC Mathematics Extension 2

**Human Language Technology**

Natural Language Processing, Speech Technology, Web Technology, Document Computing, Intelligent Systems

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**COMPUTING AND INFORMATION TECHNOLOGY (continued)****Software Engineering****SP\*** Refer to Engineering**ECONOMICS****A** Mathematics  
Students with General Mathematics or with minimal mathematics can take a mathematics unit in their first year.**EDUCATION****Early Childhood Education**  
**Primary, Secondary****A** Any two units of English plus Mathematics (minimum requirement is Band 4 General Mathematics)  
Also refer to Arts with Education*Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.***ENGINEERING****ENGINEERING WITH ARTS****ENGINEERING WITH BUSINESS ADMINISTRATION****ENGINEERING WITH COMMERCE****ENGINEERING WITH SCIENCE**

Computer Engineering, Electronics Engineering, Mechatronic Engineering, Software Engineering, Telecommunications Engineering, Wireless Engineering

**SP\*** Mathematics**R** HSC Mathematics Extension 1 or HSC Mathematics Extension 2, plus Chemistry and Physics**ENVIRONMENTAL**

Climate Science, Environmental Biology, Environmental Chemistry, Environmental Earth Science, Environmental Geology, Environmental Management, Spatial Information Science

**R** Biology or Chemistry and Environmental Science, or Society and Culture**For Environmental Chemistry:** Chemistry and Mathematics**HEALTH**

Health Studies

**N** None for first-year units**R** Personal Development, Health and Physical Education (PDHPE)**INTERNATIONAL STUDIES**

Cultural Studies, Intercultural Communication, Languages

**N** None for first-year units**LAW (COMBINED)**

The following combined law courses are offered:

Applied Finance with Law  
Arts with Law  
Arts (Media) with Law  
Business Administration with Law  
Commerce (Accounting) with Law  
Commerce with Law  
Environment with Law  
Information Technology with Law  
International Studies with Law  
Arts-Psychology with Law  
Science with Law  
Social Science with Law**R** **For Law:** none for first-year units  
**For the other area of study:** refer to the relevant entry

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**MARINE SCIENCE**

Marine Biology, Marine Geoscience

**R** **Earth and Environmental Science For Biology:** Chemistry or Senior Science, plus Mathematics**MEDICAL SCIENCES**

Biomedical, Medical Chemistry, Psychomedical

**A** Chemistry and Mathematics  
**R** HSC Mathematics Extension 1**MUSEUM STUDIES**

Ancient History, Anthropology, Biology, Cultural Studies, Human Geography, Geology, Indigenous Studies, Modern History, Palaeontology (Compulsory)

**N** None for first-year units**PLANNING**

Development Studies and Cultural Change, Human Geography, Resource and Environmental Management

**N** None for first-year units  
**R** Geography, Earth and Environmental Science, or Society and Culture**PSYCHOLOGY****PSYCHOLOGY (HONOURS)****PSYCHOLOGY WITH BUSINESS ADMINISTRATION****PSYCHOLOGY WITH EDUCATION****PSYCHOLOGY WITH HEALTH****R** **For Psychology:** Mathematics**R** **For the other area of study:** refer to the relevant entry**SCIENCE****SCIENCE WITH EDUCATION**

Advanced Biology, Advanced Chemistry, Advanced Mathematics, Anatomy and Physiology, Astronomy and Astrophysics, Biodiversity and Conservation, Biodiversity and Ecology, Bioinformatics, Biology, Biomolecular Science, Chemistry, Climate Science, Computing, Decision Science, Demography, Electronics, Environmental Earth Science, Environmental Management, Exploration Geoscience, Geoecology, Geographical Information Systems, Geonomics, Grammar and Social Meaning, Human Geography, Information Processing and Data Mining, Language and Speech, Mathematics, Mathematical Physics, Molecular Analysis and Design, Palaeobiology, Palaeontology, Philosophy, Photonics, Physics, Population Studies, Psychological Science, Social and Cultural Geography, Spatial Information Science, Statistics

**R** **For Anatomy and Physiology:** Biology  
**For Biology-related areas of study:** Chemistry or Senior Science, plus Mathematics**A** **For Chemistry-related areas of study:** Chemistry and Mathematics**N** **For Climate Science and Environmental Earth Science:** None for first-year units  
**R** Geography or Earth and Environmental Science**A** **For Computing:** Mathematics  
**R** HSC Mathematics Extension 1 or HSC Mathematics Extension 2**A** **For Electronics:** Mathematics  
**R** HSC Mathematics Extension 1 or HSC Mathematics Extension 2, Information Processes and Technology or Software Design and Development**N** **For Environmental Management:** None for first-year units  
**R** Geography, Earth and Environmental Science or Society and Culture**R** **For Geology-related areas of study:** Earth and Environment Science or Chemistry*Note: Some of the above major studies may also be taken as part of an Arts degree**continued next page*

**MAIN AREA OF STUDY**

## Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**SCIENCE****SCIENCE WITH EDUCATION (continued)**

- R** **For Geophysics:**  
Mathematics or Physics or Earth and Environmental Science or Engineering Studies. Units of study are available in Chemistry, Physics and Mathematics for students who have not studied these courses at HSC level.
- N** **For Human Geography:**  
None for first-year units
- For Mathematics:**
- SP\*** Mathematics (Refer also to Science Advanced Program entry)
- R** HSC Mathematics Extension 1 or HSC Mathematics Extension 2
- R** **For Palaeobiology/Palaeontology:**  
None for first-year units
- For Physical Geography:**
- N** None for first-year units
- For Physics, Astronomy and Astrophysics and Photonics:**
- SP\*** Mathematics
- R** HSC Mathematics Extension 1 or HSC Mathematics Extension 2 and either Physics (preferred) or Chemistry or Engineering Studies or Senior Science
- For Psychological Science:**
- R** Mathematics
- For Spatial Information Science:**
- N** None for first-year units
- R** General Mathematics and Geography
- A** **For intending primary and secondary teachers in NSW:** Refer to Arts/Arts Education page 32

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

**Biodiversity and Conservation**

Animal Sciences, Biochemistry, Biodiversity and Conservation Biology, Cell and Molecular Biology, Environmental Biology, Ecology, Genetics, Microbiology, Physiology, Plant Sciences

- R** Chemistry or Senior Science, plus Mathematics

**SCIENCE ADVANCED PROGRAM****Astronomy and Astrophysics**

- R** Physics plus Mathematics

**Biology**

- R** Chemistry or Senior Science, plus Mathematics

**Chemistry**

- R** Chemistry or Senior Science, plus Mathematics

**Mathematics**

- SP** HSC Mathematics Extension 2

**Physics**

- R** Physics plus Mathematics

**SOCIAL SCIENCES**

Anthropology, Cultural Studies, Demography, Development Studies and Culture Change, Environmental Management, Gender Studies, Indigenous Studies, Linguistics, Sociology

- N** None for first-year units

## MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## SPEECH AND HEARING SCIENCES


Audiology, Speech and Language Pathology,  
Speech Research

**N** None

**\* Subject prerequisites marked with an asterisk have minimum requirements.  
Contact the University for further details.**

## Lismore campus

### Enquiries

 Student Services  
Southern Cross University  
PO Box 157  
Lismore NSW 2480


 Freecall 1800 626 481 (all campuses)


**in person:** Student Services  
Military Rd  
East Lismore NSW

**fax:** (02) 6622 4341

## Coffs Harbour campus

### Enquiries

 Southern Cross University  
Coffs Harbour Education campus  
Hogbin Drive  
Coffs Harbour NSW 2450


 Freecall 1800 626 481


**in person:** Coffs Harbour Education campus  
Hogbin Drive  
Coffs Harbour NSW

**fax:** (02) 6659 3051

## Gold Coast campus and Tweed Heads

### Enquiries

 Southern Cross University  
PO Box 157  
Lismore NSW 2480

 Freecall 1800 626 481

**in person:** Southern Cross Drive  
Bilinga QLD

**fax:** (07) 5589 3700

### READ THIS FIRST

The following seven University-wide majors are available for some degrees:

- Education
- Indigenous Australian Studies
- Law and Justice
- Natural Medicine
- Organisational Management
- Sport Management
- Sustainability.

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### ARTS

Cultural Studies; History, Politics and Society; Writing

**R** English (Advanced)

### BUSINESS

Accounting, Finance, Human Resource Management, Information Systems, International Business, Marketing,

**R** Mathematics and one or more of Business Studies, Economics, Information Processes and Technology, Legal Studies

### BUSINESS ADMINISTRATION

**R** Mathematics, plus one or more of Business Studies, Economics, Information Processes and Technology

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## CLINICAL SCIENCES

Complementary Medicine, Ecosystems Management, Human Nutrition, Human Structure and Function, Naturopathic Studies, Osteopathic Studies, Psychology

**R** Biology and/or Chemistry

## CONTEMPORARY MUSIC

Music Education, Music Industry, Performance, Professional Studies

**P** **For Performance major:** Students will need to demonstrate aptitude prior to commencing this major in the second year.

**A** Competency on a musical instrument (either bass, drums, guitar, piano or voice), particular for the performance major and basic music theory.

## CONVENTION AND EVENT MANAGEMENT

**R** Any two units of English and Business Studies

## CREATIVE WRITING (Assoc Deg)

**A** Any two units of English

## EDUCATION/TEACHING

Early Childhood

**A** Any two units of English and Mathematics

Primary

Primary Teaching (K-6)

**A** Any two units of English and Mathematics

*Check pages 7-8 for information about HSC English and Mathematics requirements for teaching degrees.*

## ENVIRONMENTAL SCIENCE

Coastal Management, Environmental Resource Management, Fisheries and Aquaculture Management

**R** Biology and/or Chemistry, plus Geography and Mathematics

## ENVIRONMENTAL TOURISM MANAGEMENT

**R** Any two units of English and Business Studies, plus Biology, Chemistry, Geography

## EXERCISE SCIENCE AND NUTRITION

**A** Chemistry

**R** Mathematics, any two units of English and one or more of Biology, Business Studies, Chemistry, Personal Development, Health and Physical Education, Physics, Senior Science

## FOREST SCIENCE AND MANAGEMENT

**R** Biology and/or Chemistry, plus Geography and Mathematics

## HOTEL MANAGEMENT

**P** Interview

**R** Any two units of English and Business Studies

## INDIGENOUS STUDIES

**R** Any two units of English

## INFORMATION TECHNOLOGY

Information Systems, Interactive Multimedia, Software Development

**A** Mathematics

**R** English (Advanced) and Information Processes and Technology

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**INFORMATION TECHNOLOGY (Assoc Deg)**

**A** Mathematics  
**R** English (Advanced) and Information Processes and Technology

**INTERNATIONAL HOSPITALITY MANAGEMENT****Gaming, Hotels and Resorts****R** Any two units of English and Business Studies**INTERNATIONAL TOURISM MANAGEMENT****R** Any two units of English and Business Studies**LAW (Assoc Deg)****Licensed Conveyancing, Paralegal Studies****R** Any two units of English and Legal Studies**LAWS****LAWS (DOUBLE DEGREES)**

The following double law degrees are offered:

Arts/Laws  
 Business/Laws  
 Contemporary Music/Laws  
 Environmental Science/Laws  
 Legal and Justice Studies/Laws  
 Social Science/Laws  
 Sport and Exercise Science/Laws  
 Tourism Management/Laws

**R** **For Laws:** English (Advanced) and Legal Studies  
**For the other area of study:** Refer to the relevant entry

**LEGAL AND JUSTICE STUDIES**

**Criminal Justice Studies, Dispute Resolution,  
 Licensed Conveyancing, Paralegal Studies,  
 Policing Studies, Social Justice Studies**

**R** Any two units of English and Legal Studies**MARINE SCIENCE AND MANAGEMENT****R** Biology and/or Chemistry, plus Geography and Mathematics**MEDIA**

Journalism, Media Design, Media and Society, Screen

**R** English (Advanced)**MIDWIFERY**

**A** English (Standard)  
**R** English (Advanced), Mathematics, Chemistry or Biology

**NURSING****R** Any two units of English, Mathematics and one or more of Biology, Chemistry, Physics**OCCUPATIONAL THERAPY****Biological Sciences, Professional Areas, Social Sciences****R** Biology**PSYCHOLOGICAL SCIENCE****R** Mathematics and Biology

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## SOCIAL SCIENCE

Community Studies, Counselling,  
Government and Policy Studies,  
Social Welfare

**A** Any two units of English

## SPORT AND EXERCISE SCIENCE

Exercise Science, Sport Management

**R** Mathematics and any two units of English, plus one or more of Biology, Business Studies, Chemistry, Personal Development, Health and Physical Education, Physics, Senior Science

## SPORT MANAGEMENT (SURFING STUDIES) (Dip)

**R** Mathematics and any two units of English

## SPORT TOURISM MANAGEMENT

**R** Any two units of English, Business Studies and Personal Development, Health and Physical Education

## TOURISM MANAGEMENT

**R** Any two units of English and Business Studies

## TRAUMA AND HEALING

**R** Any two units of English

## VISUAL ARTS

Arts Industry and Media Arts, Arts Industry  
and Technology

**P** Interview and portfolio

**R** Visual Arts

## COMBINED AND DOUBLE DEGREES

### **Education Secondary (combined degrees)**

If you intend to undertake a combined Education degree at Southern Cross University, it is recommended that you study any two units of English plus Mathematics during your senior years at secondary level.

Also check the assumed knowledge and recommended studies for the other component of the combined degree:

- Arts/Education
- Contemporary Music/Education
- Science/Education (see *Environmental Science*)
- Sport and Exercise Science/Education
- Visual Arts/Education.

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.


### **Double degrees**


Southern Cross University offers a double degree in Business/Arts. Double degrees in Law are also offered. Refer to main entries for details.

See the assumed knowledge and recommended studies for both components of the double degrees.



## Enquiries

 Director  
Student Administration  
University of Canberra  
ACT 2601

 1800 UNI CAN  
(1800 864 226)

**in person:** University of Canberra  
Student Centre (UCSC)  
Level B, Building 1  
Kirinari Street  
University of Canberra  
Bruce ACT

**fax:** (02) 6201 5040

## READ THIS FIRST

For details of options (approved majors) available within courses including modern languages (Chinese, Japanese and Spanish), visit [www.canberra.edu.au/courses](http://www.canberra.edu.au/courses)

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### APPLIED ECONOMICS

**R** ACT: Mathematical Applications major  
NSW: Mathematics

### APPLIED SCIENCE

Environmental Science

**R** ACT: Biology and/or Chemistry major/s, plus  
Mathematical Methods major  
NSW: Biology and/or Chemistry plus Mathematics

Forensic Studies

**R** ACT: Biology and/or Chemistry major/s, plus  
Mathematical Methods major  
NSW: Biology and/or Chemistry, plus Mathematics

Human Biology

**R** ACT: Biology and/or Chemistry major/s plus  
Mathematical Methods major  
NSW: Biology and/or Chemistry and Mathematics

Human Nutrition

**R** ACT: Chemistry and Mathematical Methods majors  
NSW: Chemistry and Mathematics

Medical Science

**R** ACT: Chemistry and Mathematical Methods majors  
NSW: Chemistry and Mathematics

Sport Coaching and Exercise Science

**R** ACT: Biology, Chemistry, Mathematical Methods  
and Physics majors  
NSW: Biology, Chemistry, Mathematics and Physics

Sports Management

**R** ACT: Mathematical Methods major  
NSW: Mathematics

Sports Media

**R** ACT: History major  
NSW: Modern or Ancient History

### ARCHITECTURE

**R** ACT: Mathematical Methods major  
NSW: Mathematics and Visual Art

### ARTS

Writing

**N** None

**N** None

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## BUSINESS ADMINISTRATION

**R** **ACT:** Mathematical Methods major  
**NSW:** Mathematics

## COMMERCE

Accounting, Banking and Finance

**R** **ACT:** Mathematical Methods major  
**NSW:** Mathematics

## COMMUNICATION

Advertising and Marketing Communication,  
Communication and Media Studies, Journalism,  
Media Arts and Production, Public Relations

**N** None

## COMMUNITY EDUCATION

Social and Community Studies

**N** None

## EDUCATION

Early Childhood (Birth–8yrs)

Early Childhood (3–8yrs)

Primary

Middle School (K–10)

**A** **ACT:** Mathematical Applications major  
**NSW:** Mathematics and any two units of English (Band 4)

Secondary (Design and Technology)

**A** **ACT:** Mathematical Methods major  
**NSW:** Mathematics and any two units of English (Band 4)

Secondary (Health and Physical Education)

**A** **ACT:** Mathematical Methods major  
**NSW:** Mathematics and any two units of English (Band 4)

Secondary (Music)

**P** **For secondary music students:** an audition is required at the School of Music, Institute of the Arts, ANU

**A** **ACT:** Mathematical Methods major  
**NSW:** Mathematics and any two units of English (Band 4)

*Note: Secondary teacher education (other than music and physical education) can be undertaken after completion of a first degree in a suitable area, such as social science, mathematics or languages.*

*Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.*

## GRAPHIC DESIGN

**R** Visual Art

## INDUSTRIAL DESIGN

**R** Design and Technology, Physics or Visual Art

## INFORMATION TECHNOLOGY

Business Informatics

**R** **ACT:** Mathematical Methods major  
**NSW:** Mathematics

**R** **ACT:** Mathematical Applications major  
**NSW:** Mathematics

## INTERIOR ARCHITECTURE

**N** None

## INTERIOR DESIGN

**P** **ACT:** Advanced Diploma in Interior Design from the CIT

**NSW:** Advanced Diploma of Interior Design from TAFE NSW

## INTERNATIONAL STUDIES

**N** None

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**JUSTICE STUDIES****N** None**LANDSCAPE****N** None**LAW****LAW (COMBINED)**

The following combined law courses are offered:  
 Advertising and Marketing Communication/Law  
 Applied Economics/Law  
 Arts/Law  
 Business Informatics/Law  
 Commerce/Law  
 Communication and Media Studies/Law  
 Forensic Studies/Law  
 International Studies/Law  
 Journalism/Law  
 Management/Law  
 Politics and International Relations/Law  
 Psychology/Law  
 Public Relations/Law  
 Science/Law  
 Sports Media/Law

**N** **For Law:** None  
**For the other area of study:** Refer to the relevant entry**MANAGEMENT****N** None**NURSING****R** **ACT:** Biology, Chemistry and Mathematical Methods majors  
**NSW:** Biology, Chemistry, Mathematics**PHARMACEUTICAL SCIENCE****N** None**POLITICS AND INTERNATIONAL RELATIONS****N** None**PSYCHOLOGY****N** None**SCIENCE****R** **ACT:** Mathematical Methods major plus at least one major in Biology, Chemistry or Physics  
**NSW:** Mathematics plus at least one of Biology, Chemistry or Physics  
**Note:** Any specific background requirements must be met for the particular majors or minors chosen within the course**SOFTWARE ENGINEERING****R** **ACT:** Mathematical Methods major  
**NSW:** Mathematics**TOURISM MANAGEMENT****N** None

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## 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.

The University of Canberra currently offers combined degrees in:

- Applied Economics/Commerce
- Applied Economics/Management
- Applied Economics/Advertising Marketing Communication
- Arts/Advertising and Marketing Communication
- Arts/Commerce
- Arts/Communication Media Studies
- Arts/Information Technology
- Arts/Journalism
- Arts/Management
- Arts/Media Arts and Production
- Arts/Psychology
- Arts/Public Relations
- Business Administration/Business Informatics
- Business Administration/Management
- Commerce/Advertising and Marketing Communication
- Commerce/Tourism Management
- Education/Arts
- Education/Commerce
- Education/Information Technology
- Education/Science
- Graphic Design/Advertising and Marketing Communication
- Information Technology/Commerce
- Information Technology/Media Arts and Production
- International Studies/Advertising and Marketing Communication
- International Studies/Commerce
- International Studies/Communication and Media Studies
- International Studies/Journalism
- International Studies/Management
- International Studies/Media Arts and Production
- International Studies/Public Relations
- International Studies/Tourism Management
- Landscape/Environmental Science
- Management/Communication Media Studies
- Management/Journalism
- Management/Psychology
- Management/Public Relations
- Politics and International Relations/Applied Economics
- Politics and International Relations/Business Administration
- Politics and International Relations/Commerce
- Politics and International Relations/Psychology
- Psychology/Sport Coaching and Exercise Science
- Science/Journalism
- Social and Community Studies/Social Science Justice Studies
- Social Science Justice Studies/Forensic Studies
- Software Engineering/Business Informatics
- Sport Coaching and Exercise Science/Human Nutrition
- Sport Coaching and Exercise Science/Information Technology
- Sport Coaching and Exercise Science/Sports Management
- Tourism Management/Sports Management

Combined degrees in law are also offered – refer to main entry for details.

For the other area of study – refer to the relevant entry for recommended study.

## Enquiries



University of New England  
Armidale NSW 2351

**in person:** Student Centre  
TC Lamble  
Administration Building



Freecall 1800 818 865

**email:** via website [www.une.edu.au/askune](http://www.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 study of English Literature at the University of New England.
- When you read '**any two units of science**' this can include Biology, Chemistry, Physics, Earth and Environmental Science, Senior Science.

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

### AGRIBUSINESS

Agribusiness, Marketing, Rural Science

**A** Any two units of English  
**R** Mathematics

### AGRICULTURE

**A** Mathematics  
**R** Biology and/or Chemistry

### AGRICULTURAL AND RESOURCE ECONOMICS

**A** Any two units of English  
**R** Mathematics

### ANIMAL SCIENCE

**A** Mathematics  
**R** Biology and/or Chemistry

### ARTS

Ancient History, Applied History, Archaeology, Asian Studies, Chinese, Classical Languages (Greek/Latin), English, Film Studies, French, Gender Studies, Geography, German, History, Indonesian, Italian, Japanese, Linguistics, Music, Philosophy, Political and International Studies, Psychology, Religion, Sociology and Criminology, Theatre and Performance, Writing

**A** Any two units of English

### BUSINESS

Agribusiness, Applied Finance or Financial Management, Business Economics, Decision Support Tools for Business, Human Resource Management, International Business, Management, Marketing, Professional Accounting

**A** Any two units of English  
**R** Mathematics

### COMPUTER SCIENCE

**A** Mathematics

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**CRIMINOLOGY****A** Any two units of English**ECONOMICS****R** Any two units of English plus Mathematics**EDUCATION**

Primary

**A** Any two units of English and any two units of mathematics*Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.***ENGINEERING TECHNOLOGY****A** Mathematics  
**R** Chemistry and/or Physics**FINANCIAL ADMINISTRATION**

Accounting, Business Finance, Business Law, Econometrics, Economics, Management

**A** Any two units of English  
**R** Mathematics**INTERNATIONAL STUDIES****A** Any two units of English**LANGUAGES**

Chinese (Mandarin), French, German, Indonesian, Italian, Japanese

**A** Any two units of English**LANGUAGES AND INTERNATIONAL BUSINESS****A** Any two units of English  
**R** Any two units of mathematics**LAW****LAW (DOUBLE DEGREES)**

The following double law courses are offered:

Agriculture/Law  
Arts/Law  
Business/Law  
Computer Science/Law  
Criminology/Law  
Economics/Law  
Environmental Science/Law  
Financial Administration/Law  
Science/Law**A** **For Law:** Any two units of English  
**For the other area of study:** refer to the relevant entry**NURSING****A** Any two units of English and any two units of science – refer to 'Read this first' information on page 46 of the UNE entry.**MEDICINE**

This program is offered jointly by the University of Newcastle and the University of New England

**P** Direct University Joint Medical Program Application Form, Undergraduate Medicine and Health Sciences Admission Test (UMAT) and interview  
**R** Any two units of English**MEDIA AND COMMUNICATION STUDIES****A** Any two units of English

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## MUSIC

**P** Audition  
**A** Any two units of English, Music 1 or Music 2 and a performance standard equivalent to Grade 6 AMEB

## PHARMACY

**A** Chemistry, Mathematics  
**R** Biology

## PSYCHOLOGY (HONOURS)

**A** Any two units of English

## RURAL SCIENCE

**A** Mathematics  
**R** Biology and/or Chemistry

## SCIENCE

**Biomedical**

**Environmental**

**GeoScience**

Archaeology, Biochemistry, Biodiversity Conservation, Biological Science, Biosystematics, Botany, Chemistry, Computer Science, Crop/Animal Sciences, Ecology, Environmental Management, Forensic Science, Genetics, Geography, Geology, Horticultural Science, Mathematics, Microbiology, Molecular Biotechnology, Physics, Physiology, Psychology, Zoology

**A** Depending on degree subjects chosen:  
Mathematics and/or any two units of English  
**R** Biology and/or Chemistry and/or Physics

## SOCIAL SCIENCE

Psychology, Sociology

**A** Any two units of English

## SPORTS AND EXERCISE SCIENCE

**Exercise and Sports Science (Clinical Exercise Physiology)**

**Exercise and Sports Science**

**Sports Studies**

**A** Mathematics  
**R** Biology and/or Chemistry

## THEATRE AND PERFORMANCE

**A** Any two units of English

## URBAN AND REGIONAL PLANNING

**A** Any two units of English

## ZOOLOGY

**A** Mathematics  
**R** Biology and/or Chemistry<sup>+</sup>

<sup>+</sup> Foundation level units in Chemistry and Mathematics are available for students who do not have a background in these areas.

## COMBINED AND DOUBLE DEGREES

If you intend to undertake combined or double degrees, check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the University for further details.

The University of New England currently offers combined degrees in:

- Arts/Business
- Arts/Science
- Arts/Teaching
- Business/Economics
- Business/Teaching
- Information Technology/Teaching
- Mathematics/Teaching
- Music/Teaching\*
- Natural Resources/Urban and Regional Planning
- Science/Teaching


\* The Music/Teaching combined degree has a prerequisite of Music 1 or Music 2. The prerequisite may also be met by completion of a Department Entrance Test and a performance standard equivalent to Grade 6 AMEB.

Double degrees in Law are also offered. Refer to main entry for details.

## Kensington campus

### Enquiries

 Student Recruitment Office  
University of New South Wales  
UNSW Sydney NSW 2052

 (02) 9385 1844


**website:** [www.unsw.edu.au](http://www.unsw.edu.au)


**email:** [studentrecruitment@unsw.edu.au](mailto:studentrecruitment@unsw.edu.au)

**in person:** Welcome Centre  
Student Recruitment Office  
Ground Floor  
John Goodsell Building

## College of Fine Arts

### Enquiries

 University of New South Wales  
PO Box 259  
Paddington NSW 2021

 (02) 9385 0684


**website:** [www.cofa.unsw.edu.au](http://www.cofa.unsw.edu.au)


**email:** [cofa@unsw.edu.au](mailto:cofa@unsw.edu.au)

**in person:** Student Centre  
Cnr Oxford St and Greens Rd  
Paddington NSW

## Australian Defence Force Academy

### Enquiries

 Student Administrative Services  
UNSW@ADFA  
Australian Defence Force Academy  
Canberra ACT 2600

 (02) 6268 6000

**website:** [www.unsw.adfa.edu.au/student](http://www.unsw.adfa.edu.au/student)

**email:** [sas@adfa.edu.au](mailto:sas@adfa.edu.au)

**in person:** Student Administrative Services  
Administration Building  
Australian Defence Force Academy  
Northcott Drive  
Campbell ACT

### READ THIS FIRST

- UNSW's HSC Plus recognises performance in relevant HSC subjects. For further information see [www.unsw.edu.au/HSCPlus](http://www.unsw.edu.au/HSCPlus)
- For HSC courses listed as Assumed Knowledge students are expected to have a level of performance at Band 4 or higher.
- General Mathematics and Senior Science are not regarded as adequate preparation for university studies in commerce, economics, engineering and science. However, these courses can be included in the calculation of the ATAR.
- Students who do not have the level of assumed knowledge specified may find themselves ill-prepared for year one subjects and therefore be placed at a considerable disadvantage. Chemistry and Physics bridging courses are offered on the Kensington campus before the start of semester 1 each year for students who have not included one or both in their HSC program. Mathematics is also offered for those students wishing to upgrade their mathematical knowledge to the level of HSC Mathematics Extension 1.
- The University also offers a non-award Mathematics Skills Program (MSP) for students who do not have assumed knowledge in HSC Mathematics or equivalent. Students undertake the MSP concurrently with their undergraduate program and this may increase the length of time required to complete the degree.

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ARCHITECTURAL COMPUTING****R** Design and Technology**ARCHITECTURAL STUDIES****R** Design and Technology and English (Advanced)**ARTS AND SOCIAL SCIENCES**

Aboriginal Studies, Americas Studies, Archaeology, Art History and Theory, Asian Studies, Australian Studies, Chinese Studies, Criminology, Development Studies, Economics, English, Environmental Studies, European Studies, Film Studies, French Studies, Geography, German Studies, Hispanic Studies, History, History and Philosophy of Science, Human Resource Management, Indonesian Studies, International Business, International Relations, Japanese Studies, Korean Studies, Linguistics, Media, Culture and Technology, Music, Philosophy, Politics, Psychology, Sociology and Anthropology, Theatre and Performance Studies, Women's and Gender Studies

**R** English (Advanced) and one or more of Ancient/Modern History, Economics, Languages, Music 2**AVIATION****Flying****P** Flight screening and medical examination and interview**A** Mathematics**R** Physics**Management****A** Mathematics**R** Physics**COMMERCE**

Accounting, Actuarial Studies, Business Economics, Business Law, Business Strategy and Economic Management, Finance, Financial Economics, Human Resource Management, Information Systems, International Business, Languages, Management, Marketing, Taxation

**A** Mathematics**R** English (Advanced) and HSC Mathematics Extension 1**Services Marketing – Tourism and Hospitality****A** Mathematics**R** English (Advanced) and HSC Mathematics Extension 1**COMPUTER SCIENCE****A** HSC Mathematics Extension 1**R** Engineering Studies, HSC Mathematics Extension 2, Information Processes and Technology, Software Design and Development**CONSTRUCTION MANAGEMENT AND PROPERTY****R** English (Advanced) and Mathematics**ECONOMICS****A** Mathematics**R** English (Advanced) and HSC Mathematics Extension 1

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## EDUCATION

### Arts/Education

**A** Any two units of English (Band 4)  
**R** English (Advanced) and one or more of Ancient/Modern History, Drama, Economics, Geography, Languages, Music 2

### Music/Education

**P** Audition  
**A** Any two units of English (Band 4)  
**R** As for Arts/Education or AMEB (7th Grade Practical and 6th Grade Theory or Musicianship) or equivalent study

### Science/Education

**A** Mathematics (prospective science teachers must also have Chemistry or Physics) and any two units of English (Band 4)  
**R** One or more of Biology, Earth and Environmental Science, English (Advanced), HSC Mathematics Extension 1

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## ENGINEERING

### Chemical Engineering

### Civil Engineering

### Civil Engineering with Architecture

### Computer Engineering

### Electrical Engineering

### Environmental Engineering

### Geoinformation Systems

### Materials Science and Engineering

### Mechanical Engineering

includes Aerospace, Manufacturing and Management, Mechatronics, Naval Architecture

### Mining Engineering

### Petroleum Engineering

### Photonics Engineering

### Photovoltaics and Solar Energy, or

### Renewable Energy Engineering

### Surveying

### Telecommunications Engineering

**A** HSC Mathematics Extension 1 and Physics  
**R** Biology or Chemistry or Engineering Studies or HSC Mathematics Extension 2 or Information Processes and Technology or Software Design and Development

### Bioinformatics

**A** HSC Mathematics Extension 1 and Chemistry  
**R** Biology or Engineering Studies or HSC Mathematics Extension 2 or Information Processes and Technology or Software Design and Development

### Industrial Chemistry

**A** Chemistry, HSC Mathematics Extension 1 and Physics  
**R** HSC Mathematics Extension 2 or Engineering Studies or Software Design and Development or Information Processes and Technology or Biology

### Software Engineering

**A** HSC Mathematics Extension 1  
**R** As for all other Engineering Programs or Physics

## EXERCISE PHYSIOLOGY

**A** Chemistry and Mathematics  
**R** Biology, Physics and Personal Development, Health and Physical Education (PDHPE)

## FOOD SCIENCE AND TECHNOLOGY

**A** Chemistry and Mathematics  
**R** Biology and Physics

## INDUSTRIAL DESIGN

**R** Design and Technology, Mathematics, Visual Arts

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**INFORMATION SYSTEMS**

**A** Mathematics  
**R** English (Advanced) and HSC Mathematics Extension 1

**INTERIOR ARCHITECTURE**

**R** Design and Technology, English (Advanced) and Visual Arts

**INTERNATIONAL STUDIES**

Asian Studies, Development Studies,  
 European Studies, Globalisation Studies,  
 International Business, Language Studies

**R** English (Advanced) and one or more of  
 Ancient/Modern History, Economics,  
 Languages, Music 2

**LANDSCAPE ARCHITECTURE**

**R** Geography and Visual Arts

**LAW (COMBINED)**

The following combined law courses are offered:

Art Theory/Law  
 Arts/Law  
 Commerce/Law  
 Economics/Law  
 Engineering/Law  
 International Studies/Law  
 Jurisprudence/Law  
 Media/Law  
 Planning/Law  
 Science/Law  
 Science (Computer Science)/Law  
 Social Science/Law  
 Social Science (Criminology)/Law  
 Social Work/Law

**A/R For Law:** none  
**For Jurisprudence:** none  
**For the other area of study:**  
 refer to the relevant entry

**MEDIA**

**R** English (Advanced) and one or more of  
 Ancient/Modern History, Economics,  
 Languages, Music 2

**MEDICAL SCIENCE**

**A** Mathematics and Chemistry  
**R** One or more of Biology, Earth and Environmental  
 Science, HSC Mathematics Extension 1, Physics

**MEDICINE/SURGERY**

**P** Undergraduate Medicine and Health Sciences  
 Admission Test (UMAT) and interview  
**A** English (Standard)  
**R** Chemistry

**MUSIC**

**P** Audition  
**R** As for Arts or AMEB (7th Grade Practical and 6th  
 Grade Theory or Musicianship) or equivalent study

**OPTOMETRY**

**P** Undergraduate Medicine and Health Sciences  
 Admission Test (UMAT)  
**A** Mathematics and Chemistry and English  
 (Advanced) and Physics

**PLANNING**

**R** English (Advanced), Design and Technology  
 and Geography

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**PSYCHOLOGY**

**A** Mathematics  
**R** English (Advanced) and Biology or Chemistry or Earth and Environmental Science or Physics

**SCIENCE****Advanced Mathematics**

**A** HSC Mathematics Extension 1  
**R** HSC Mathematics Extension 2

**Advanced Science Science**

**A** Mathematics and Chemistry plus one or more of Biology, Earth and Environmental Science, Physics, HSC Mathematics Extension 1 (depending on chosen area of study)

**Biotechnology**

**A** Mathematics and Chemistry  
**R** Biology

**Environmental Science**

**A** Mathematics and Chemistry  
**R** Earth and Environmental Science or Physics or Biology

**Medicinal Chemistry**

**A** Mathematics and Chemistry  
**R** Biology and/or Physics

**Nanotechnology**

**A** HSC Mathematics Extension 1 and Physics and Chemistry  
**R** Biology or Earth and Environmental Science

**SOCIAL SCIENCE****SOCIAL SCIENCE (CRIMINOLOGY)**

**R** English (Advanced) and one or more of Ancient/Modern History, Economics, Languages, Music 2

**SOCIAL WORK**

**R** English (Advanced) and one or more of Ancient/Modern History, Economics, Languages, Music 2

**TAXATION**

**A** Mathematics  
**R** One or more of Accounting, Economics, English (Advanced), HSC Mathematics Extension 1, Legal Studies

**COLLEGE OF FINE ARTS****ART EDUCATION**

**A** Visual Arts  
**R** English (Advanced)

**ART THEORY**

**R** One or more of English (Advanced), Modern History, Visual Arts

**DESIGN**

**A** Visual Arts  
**R** Design and Technology or Textiles and Design

**DIGITAL MEDIA**

**R** Visual Arts

**FINE ARTS**

Ceramics, Drawing, Jewellery, Painting, Performance Installation, Photomedia, Printmaking, Sculpture, Textiles, Time Based Art

**A** Visual Arts

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**AUSTRALIAN DEFENCE FORCE ACADEMY****ARTS**

- P** Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force
- R** For details visit [www.unsw.edu.au/HSCplus](http://www.unsw.edu.au/HSCplus)

**AVIATION**

- P** Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force
- A** Mathematics and Physics
- R** For details visit [www.unsw.edu.au/HSCplus](http://www.unsw.edu.au/HSCplus)

**BUSINESS**

- P** Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force
- R** For details visit [www.unsw.edu.au/HSCplus](http://www.unsw.edu.au/HSCplus)

**ENGINEERING**Aeronautical Engineering, Civil Engineering,  
Electrical Engineering, Mechanical Engineering

- P** Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force
- A** Mathematics and Physics
- R** For details visit [www.unsw.edu.au/HSCplus](http://www.unsw.edu.au/HSCplus)

**INFORMATION TECHNOLOGY**

- P** Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force
- R** For details visit [www.unsw.edu.au/HSCplus](http://www.unsw.edu.au/HSCplus)

**SCIENCE**

- P** Interview by Defence Force Recruitment and selection for entry to the Australian Defence Force
- R** For details visit [www.unsw.edu.au/HSCplus](http://www.unsw.edu.au/HSCplus)

**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.


The University of New South Wales offers combined degrees including:


- Advanced Mathematics/Arts
- Advanced Science/Arts
- Art Theory/Arts
- Art Theory/Social Science
- Arts/Education
- Commerce/Advanced Mathematics
- Commerce/Arts
- Commerce/Economics
- Commerce/Information Systems
- Commerce/Science
- Computer Science/Arts
- Computer Science/Digital Media
- Design/Art Education
- Economics/Arts
- Engineering/Arts
- Engineering/Commerce
- Engineering/Computer Science
- Engineering/Engineering
- Engineering/Science
- Environmental Science/Arts
- Fine Arts/Arts
- Materials Science and Engineering/Chemical Engineering
- Materials Science and Engineering/Commerce
- Medicine/Arts
- Music/Advanced Science
- Music/Arts
- Music/Education
- Music/Science
- Science/Arts
- Science/Computer Science
- Science/Education
- Science/Social Science
- Social Work/Arts
- Social Work/Social Science

Combined degrees in Law are also offered. Refer to main entry for details.

## Newcastle campus (Callaghan)

### Enquiries

 Student Services Centre  
The University of Newcastle  
NSW 2308

 (02) 4921 5000  
**fax:** (02) 4985 4200


**website:** [www.newcastle.edu.au/askuon](http://www.newcastle.edu.au/askuon)


**in person:** Any Student Hub  
Student Services Centre or  
Shortland Building  
University Drive  
Callaghan NSW

A Student Hub is also located at  
University House in the Newcastle  
City Precinct

## Central Coast campus (Ourimbah)

### Enquiries

 Student Hub  
Central Coast campus  
PO Box 127  
Ourimbah NSW 2258

 (02) 4348 4000


**fax:** (02) 4348 4035

**website:** [www.newcastle.edu.au/askuon](http://www.newcastle.edu.au/askuon)

**in person:** Student Hub  
Chittaway Road  
Ourimbah NSW

## Port Macquarie campus

### Enquiries

 The University of Newcastle  
PO Box 210  
Cnr Hoxley Highway and Widderson Street  
Port Macquarie NSW 2444

 (02) 4921 5000

**fax:** (02) 6581 6263

**website:** [www.newcastle.edu.au/askuon](http://www.newcastle.edu.au/askuon)

**in person:** Port Macquarie Student Hub  
A Block, Administration  
Widderson Street  
Port Macquarie NSW 2444

### READ THIS FIRST

- Competence in the English language is a requirement for all University of Newcastle courses. All courses at the University of Newcastle have assumed knowledge of any two units of English.
- The University of Newcastle recognises performance in relevant HSC subjects. For information about the University of Newcastle's HSC Bonus Points Scheme, visit [www.newcastle.edu.au](http://www.newcastle.edu.au)
- The University of Newcastle offers a number of bridging courses to assist students who may not have the recommended or assumed knowledge requirements. The bridging courses are offered before term commences and cover many areas, such as Mathematics, Chemistry, Physics and other specific academic skills.

Information about the bridging courses is available at the University of Newcastle's website at [www.newcastle.edu.au/centre/elfsc/bridging/index.html](http://www.newcastle.edu.au/centre/elfsc/bridging/index.html)

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ABORIGINAL STUDIES**

Aboriginal Cultural Studies, Aboriginal Research Methods and Field Practice, Communication Studies

**N** None**ARCHITECTURE****R** Any two units of English plus Industrial Technology and/or Mathematics and/or Physics and/or Visual Arts**ARTS\* #**

Aboriginal Studies, Ancient History, Chinese, Classical Languages (Latin, Greek), Creative Arts, Drama, English, Film, Media and Cultural Studies, French, German, History, Human Geography and the Environment, International Affairs, Japanese, Linguistics, Philosophy, Politics and Policy, Psychology Studies, Religious Studies, Sociology and Anthropology, Writing

**R** **For Psychology:** Mathematics  
**For all other majors:** English (Advanced)*Note: Not all majors have courses available on both the Newcastle and Central Coast campuses. Contact the University of Newcastle for further information.**\* Students are required to undertake two majors.**# The academic content of this program is currently under review.***BIOMEDICAL SCIENCE**

Anatomy, Cell Biology, Clinical Exercise Physiology, Human Bioscience, Human Genetics and Bioinformatics, Human Pharmacology, Immunology, Medical Biochemistry, Microbiology, Molecular Biology, Neuroscience, Nutrition, Pathophysiology, Research and Practical Laboratory Skills, Virology

**A** A strong background in the basic sciences including Chemistry, Physics, Biology and Mathematics**BIOTECHNOLOGY**

Biotechnology, Cell and Molecular Biology, Microbiology and Molecular Genetics

**A** Mathematics and Chemistry  
**R** Physics**BUSINESS**

Human Resource Management, Information Systems in Business, International Business, Logistics and Supply Chain Management, Management, Marketing, Tourism

**A** Mathematics**COMMERCE**

Accounting, Economics and Finance

**A** Mathematics**COMMUNICATION**

Journalism, Media Production, Media Studies, Public Relations

**N** None**COMPUTER SCIENCE****A** Mathematics (Band 5 or above)  
**R** HSC Mathematics Extension 1 or higher, any two units of science**CONSTRUCTION MANAGEMENT**

Construction Management, Quantity Surveying

**R** Any two units of English plus Mathematics

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## DEVELOPMENT STUDIES

Cultures and Citizenship, Globalisation and Economic Development, Environment Sustainability, Urban and Regional Development

**N** None

## ENGINEERING

**Chemical**  
**Civil**  
**Environmental**  
**Mechanical**  
**Mechatronics**  
**Mining (Transfer Program)**  
**Software**  
**Computer**  
**Electrical**  
**Telecommunications**

**A** Mathematics (Band 5 or above)  
**R** HSC Mathematics Extension 1 or higher and any two units of science

**A** Mathematics (Band 5 or above)  
**R** HSC Mathematics Extension 1 or higher, and any two units of science – Physics preferred

## ENVIRONMENTAL SCIENCE AND MANAGEMENT

Earth Systems, EcoSystems and Biodiversity, Marine Science, Sustainability

**R** Mathematics, Chemistry and Biology

## EXERCISE AND SPORT SCIENCE\*

\* Central Coast campus only

**R** At least two of Biology, Chemistry, Mathematics or Physics. Personal Development, Health and Physical Education is desirable

## FINE ART

2D Art (Drawing, Painting, Printmaking), 3D Art (Ceramics, Fibres, Textiles, Sculpture), Art History/Theory, Photomedia (Photography and Digital Imaging), Video

**A** Visual Arts

## FOOD SCIENCE AND HUMAN NUTRITION\*

\*Central Coast campus only

**R** Biology or Chemistry or Mathematics

## INDUSTRIAL DESIGN

Industrial Design

**P** TAFE Advanced Diploma in Product Design and Development or Advanced Diploma of Product Design and Innovation or equivalent

*Note: The first three years of this program are completed at TAFE, followed by one year full-time at the University of Newcastle. Contact the University for further information.*

## INFORMATION TECHNOLOGY

Business Information, Communication and Technology, Digital Media and Entertainment, Software Development and Application

**N** None

## LANGUAGES

Auslan, Chinese, French, German, Greek, Japanese, Latin

**N** None

## LAW (COMBINED)

The following combined law courses are offered:  
Aboriginal Professional Practice/Laws  
Arts/Laws  
Business/Laws  
Commerce/Laws  
Communication/Laws  
Science/Laws  
Social Science/Laws

**A/R** For Law: none

**A/R** For other areas of study: refer to the relevant entry

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**MATHEMATICS**

Mathematics, Statistics

**A** Mathematics  
**R** HSC Mathematics Extension 1**MEDICAL RADIATION SCIENCE**

Diagnostic Radiography, Nuclear Medicine, Radiation Therapy

**A** Any two units of English plus Mathematics or Physics**MEDICINE***This program is offered jointly by the University of Newcastle and the University of New England***P** Direct University Joint Medical Program Application Form, Undergraduate Medicine and Health Sciences Admission Test (UMAT) and interview  
**R** Any two units of English**MIDWIFERY****A** English (Band 4 or higher), General Mathematics, Biology and Chemistry**MUSIC**

Composition, Creative Production, Musicology, Performance (Instrument, Voice), Second Instrument, Studio Teaching (Private)

**P** Audition and interview and tests and ATAR or equivalent  
**A** AMEB (Grade 6 to 8 pass) or equivalent or demonstrated musical expertise or Music 1**NATURAL HISTORY ILLUSTRATION**

Natural History Illustration

**R** Any of: Biology, Design and Technology, Geography, Senior Science, Textiles and Design, Visual Arts**NURSING**

Nursing

**A** Any two units of English plus Biology, Chemistry and General Mathematics  
Current nationally accredited first aid certificate and appropriate ICT skills also assumed**NUTRITION AND DIETETICS****R** Chemistry**OCCUPATIONAL THERAPY****R** Biology and Chemistry**ORAL HEALTH\****\*Central Coast campus only***R** Biology and Chemistry**PHYSIOTHERAPY****A** English (Advanced) plus Chemistry and either Biology or Physics**PODIATRY\****\*Central Coast campus only***A** Chemistry and any two units of Mathematics and Physics**PSYCHOLOGY****A** Mathematics  
**R** Biology

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## SCIENCE

Biological Sciences, Chemistry, Earth Sciences, Geography and Environmental Studies, Marine Science, Mathematics, Photonics, Physics, Psychology, Statistics, Sustainable Resource Management

**A** Mathematics

**R** Biology and/or Chemistry and/or Physics depending on the major

*Note: Not all majors have courses available on both the Newcastle and Central Coast campuses. Contact the University of Newcastle for further information.*

## SOCIAL SCIENCE

Aboriginal Studies, Community Welfare and Human Services, Economic Policy Analysis, Film, Media and Cultural Studies, Gender Studies, Historical Studies, Human Geography, Industrial Relations and Human Resource Management, Leisure and Tourism Studies, Linguistics, Philosophical and Religious Studies, Politics and Policy, Psychology, Sociology and Anthropology

**R** **For Psychology:** Mathematics  
**For all other majors:** English (Advanced)

Other related subjects, such as Geography, History, Family and Community, Society and Culture are recommended depending on the major

*Note: Not all majors have courses available on both the Newcastle and Central Coast campuses. Contact the University of Newcastle for further information.*

## SOCIAL WORK

Philosophy, Psychology, Social Science, Social Work

**R** **For Psychology:** Mathematics

## SPEECH PATHOLOGY

Linguistics, Psychology, Speech Pathology

**R** Biology and Chemistry, Mathematics and English (Advanced)

## SURVEYING

**A** Mathematics (Band 5 or above)

**R** HSC Mathematics Extension 1 or higher and any two units of science

## TEACHING

### Arts\*

Primary Teaching Specialisation  
Aboriginal Studies, Business, Creative Arts, Economics, English, History, Legal Studies, Physical Education, Religion, Science

Secondary Teaching Specialisations  
Aboriginal Studies, Ancient History, Business, Chinese, Drama, Economics, English, French, Geography, German, Japanese, Modern History, Society and Culture, Special Education, Studies of Religion

\* At Port Macquarie campus, only the Primary Teaching Specialisation strand is available

**A** **For Primary Teaching:** Any two units of English (Band 4) and any two units of mathematics (Band 4 required for General Mathematics)

**For Secondary Teaching:** Any two units of English (Band 4)

### Design and Technology ^

Design and Technology, Technological and Applied Studies Teaching

^ Pending NSW Institute of Teachers approval

**A** Any two units of English (Band 4)

**R** Mathematics, Chemistry plus Visual Arts or Textiles and Design or Design and Technology or Industrial Technology or Food Technology or Engineering Studies

### Early Childhood Studies

Early Childhood Studies, Primary

**A** Any two units of English (Band 4) and any two units of mathematics (Band 4 required for General Mathematics)

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## TEACHING (continued)

### Fine Art

2D Art, 3D Art, Art Theory, Drama, Education/Teaching, History, Photomedia, Special Education, Studio Practice, Visual Arts

**A** Any two units of English (Band 4)  
**R** Visual Arts

### Health and Physical Education

Personal Development, Health and Physical Education Teaching, Special Education

**A** Any two units of English (Band 4)  
**R** Personal Development, Health and Physical Education plus either Biology or Chemistry or Physics

### Mathematics

Mathematics, Special Education, Statistics

**R** Mathematics and any two units of English (Band 4)

### Music

Students seeking to teach music should complete a Bachelor of Music then a Master of Teaching.

**A** Audition required

### Science

Two of Physics, Chemistry, Biology or Geology – provided Physics or Chemistry is undertaken as either a major or a minor study

**A** Mathematics and any two units of English (Band 4)  
**R** Biology and/or Chemistry and/or Physics depending on major

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## THEOLOGY

History, Philosophy, Theology and Religious Studies **N** None

## VISUAL COMMUNICATION

Digital Design, Graphic and Illustration Design

**A** One or more of: Visual Arts and/or Design and Technology and/or Textiles and Design and/or 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. Contact the University of Newcastle for further details.

The University of Newcastle currently offers combined programs in:

- Arts/Science
- Business/Commerce
- Civil Engineering/Environmental Engineering
- Engineering/Business
- Engineering/Computer Science
- Engineering/Mathematics
- Engineering/Science
- Engineering/Surveying
- Information Technology/Business
- Mathematics/Computer Science
- Mathematics/Science
- Mechanical Engineering/Mechatronics Engineering
- Music/Arts

Combined programs in Law are also offered – refer to main entry for details.

**Note: All programs are subject to routine review. This may result in slight variation in subject offerings.**

## Enquiries

 Student Recruitment Unit  
Raglan Street Building (G10)  
University of Sydney  
NSW 2006

 1300 362 006 (helpline)

**email:** [future.students@sydney.edu.au](mailto:future.students@sydney.edu.au)

## MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites  
**SP** = Subject Prerequisites  
**A** = Assumed Knowledge  
**R** = Recommended Studies  
**N** = None

## AGRICULTURAL ECONOMICS

Accounting (subject to ATAR), Agribusiness, Agricultural Economics, Agricultural Finance, Agricultural Marketing, Agricultural Science, Commercial Law, Econometrics, Economics, Finance, Geography, Government and International Relations, Management, Marketing, Psychology

**A** Mathematics

## ANIMAL AND VETERINARY BIOSCIENCE

Animal Behaviour and Welfare, Animal Biotechnology, Animal Genetics, Animal Health and Diseases, Animal Nutrition, Animal Reproduction, Animal Structure and Function, Aquaculture, Cattle, Pig, Poultry, Sheep Science and Production

**A** Mathematics and Chemistry  
**R** Biology

## ARTS AND SOCIAL SCIENCES

### Arts

**Arts (Advanced) (Honours)**

**Arts (Languages)**

**Arts (Media and Communication)**

American Studies, Ancient History, Anthropology, Arab World, Islam and the Middle East, Arabic Language, Literature and Culture, Archaeology, Art History and Theory, Asian Studies, Australian Literature, Biblical Studies, Biochemistry\*, Bioinformatics\*, Biology\*, Chemistry\*, Celtic Studies, Chinese Studies, Classical Studies, Computer Science\*, Cultural Studies, Digital Cultures, Economics\*, Education\*, English, Environmental Studies\*, European Studies, Film Studies, French Studies, Gender Studies, Geography\*, Geology and Geophysics\*, Germanic Studies, Government and International Relations\*, Greek (Ancient), Hebrew (Classical and Modern), Heritage Studies, History, History and Philosophy of Science\*, Indigenous Australian Studies, Indonesian Studies, Industrial Relations and Human Resource Management\*, Information Systems\*, International and Comparative Literary Studies, International and Global Studies\*, Italian Studies, Japanese Studies, Jewish Civilisation Thought and Culture, Korean Studies, Latin, Law\*, Linguistics,

**A** Knowledge required or assumed depends on first-year subjects selected. In most cases where a subject has a level of assumed knowledge there is an alternative course available with no knowledge assumed

*continued next page*

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## ARTS AND SOCIAL SCIENCES (continued)

Management\*, Mathematics\*, Media and Communications\*, Medieval Studies, Microbiology\*, Modern Greek, Music, Performance Studies, Philosophy, Physics\*, Plant Science\*, Political Economy, Psychology\*, Psychology for Social Work\*, Sanskrit, Social Policy, Socio-legal Studies\*, Sociology, Spanish and Latin American Studies, Studies in Religion, Statistics\*

\* available under certain conditions

## COMMERCE

Accounting, Business Information Systems, Commercial Law, Econometrics, Economics, Finance, Industrial Relations and Human Resource Management, International Business, Management, Marketing, Operations Management and Decision Sciences

**A** Mathematics. Other assumed knowledge depends on first-year subjects selected

### Commerce (Liberal Studies)

At least one major from: Accounting, Commercial Law, Econometrics, Economics, Finance, Industrial Relations and Human Resource Management, International Business, Management, Marketing. Second major from a broader list, which includes all of the above areas as well as Agricultural Economics, Business Information Systems, Computer Science, Financial Mathematics, Government and International Relations, Mathematics, Operations Management and Decision Sciences and Political Economy

**A** Mathematics. Other assumed knowledge depends on first-year subjects selected

## COMPUTER SCIENCE AND TECHNOLOGY

Computer Science, Information Systems

**A** Mathematics or HSC Mathematics Extension 1 (depending on subjects chosen)

**For Computer Science and Technology (Advanced):** HSC Mathematics Extension 1

## DENTISTRY (GRADUATE ENTRY)

**P** Undergraduate degree in any discipline and Graduate Australia Medical Schools Admission Test (GAMSAT) and Interview

## DESIGN COMPUTING

Design, Human/Computer Interaction, Modelling and Programming

**A** Mathematics

## DESIGN IN ARCHITECTURE

Architectural Design, Architectural History and Theory, Architectural Technologies, Art Workshops, Communications, Environment, Environment and Sustainability, Management in Architecture

**A** Mathematics and English (Advanced)

## ECONOMICS

Economics, Econometrics or Financial Economics. Additional majors and electives may be chosen from units of study offered by the faculties of Agriculture, Food and Natural Resources, Arts and Social Sciences, Business School, Education and Social Work and Science

**A** Mathematics. Other assumed knowledge depends on first-year subjects selected

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## EDUCATION

### Early Childhood

Child development and learning; Education; Learning studies (language, arts, mathematics, health and wellbeing science); Professional studies

**A** Depends on subjects selected

### Primary

Education and Primary Education

**A** Any two units of English (Band 4) and any two units of Mathematics

### Secondary

Human Movement, Humanities and Social Sciences, Mathematics, Science

**A** Any two units of English (Band 4) Knowledge required or assumed depends on first-year subjects selected within individual degree programs

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## ENGINEERING

Aeronautical

Bioelectrical

Biomedical

Chemical and Biomolecular

Civil

Construction Management

Electrical

Electrical (Bioelectronics)

Electrical (Computer, Electronics, Telecommunications)

Electrical (Power)

Environmental

Geotechnical

Mechanical

Mechatronic

Project Engineering and Management

Space

Structural

**A** HSC Mathematics Extension 1 and Chemistry and/or Physics

## ENVIRONMENTAL SYSTEMS

Agricultural Systems including: Agronomy, Biosphere and Atmosphere Interactions, Plant Sciences, Soil Science, Spatial Information Systems. Natural Terrestrial Systems including: Biogeochemistry, Environmetrics, Geomorphology

**A** Chemistry and Mathematics

## EXERCISE AND SPORT SCIENCE

### Exercise and Sport Science

#### Exercise Physiology

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

**A** Chemistry and Mathematics  
**R** **For Exercise and Sport Science:** Physics  
**For Exercise Physiology:** Physics, Biology, Personal Development, Health and Physical Education (PDHPE)

## EXERCISE AND SPORT SCIENCE/MASTER NUTRITION AND DIETETICS

Biochemistry, Biomechanics, Chemistry, Food Science, Nutritional Science

**A** Chemistry and Mathematics  
**R** Physics

## HEALTH SCIENCES

Health System and Services, plus an additional major of your choice from the Faculties of Health Sciences; Science; Arts and Social Science; and Business School

**N** None  
**R** Chemistry or a chemistry bridging course

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## INFORMATION TECHNOLOGY

Computer Science, Information Systems

**A** Mathematics or HSC Mathematics Extension 1 depending on subjects chosen

## INTERNATIONAL AND GLOBAL STUDIES

Core program of studies in International and Global Studies. A major from Anthropology, Government and International Relations, International Business, Political Economy, Sociology, an area of study with an optional major/minor including a second language

*For subject areas see Arts and Science*

**A** Depends on first-year subjects selected

## LAW (COMBINED)

The following combined law courses are offered:

Architecture, Design and Planning/Law

Arts/Law

Arts (Media and Communications)/Law

Commerce/Law

Economics/Law

Engineering/Law

Information Technology/Law

International and Global Studies/Law

Political, Economic and Social Sciences/Law

Science/Law

**A/R** For Law: none

**A** For the other area of study: refer to the relevant entry

## LIBERAL ARTS AND SCIENCE

A sequence of subjects in Science (Arts major) or Arts (Science) and a sequence in another area plus a Liberal Studies stream (Analytical Thinking, Communications, Culture, Ethics, Scientific Enquiry and Technological Literacy, Society and Global Citizenship)

*For subject areas see Arts and Science*

**A** Depends on subjects chosen

## MEDICAL RADIATION SCIENCES

Diagnostic Radiography

**R** Mathematics, Chemistry and Biology or Physics

## MEDICAL SCIENCE

Anatomy, Biochemistry, Biology, Cell Pathology, Genetics, Histology, History and Philosophy of Science, Immunology, Infectious Diseases, Microbiology, Molecular Biology, Pharmacology, Physiology

**A** Mathematics, Chemistry and Biology or Physics. All students must study first-year Mathematics

## MEDICINE (COMBINED)

Medicine can be combined with Arts (Advanced)(Honours), Commerce, Economics, Medical Science, Music Studies and Science (Advanced)

**A** As for Arts (Advanced) (Honours), Commerce, Economics, Medical Science, Music Studies and Science (Advanced)

## MEDICINE (GRADUATE ENTRY)

Basic and Clinical Sciences, Patient and Doctor, Personal and Professional Development, Population Medicine

**P** Bachelor degree in any discipline and Graduate Australian Medical Schools Admissions Test (GAMSAT) and Interview

## MUSIC

Composition, Jazz, Music Education, Music Studies, Musicology, Performance

**P** Audition or portfolio and/or interview  
**A** Music 2

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**NURSING (ADVANCED STUDIES)**

Acute Care, Aged Care, Child and Adolescent Health, Clinical Practice, Chronic Illness, Indigenous Health, Mental Health Care and Management, Nursing, Pharmacology, Physiology, Professional Practice, Social and Health Policy

**N** None**NURSING (COMBINED)**

Nursing practice options: Clinical Nursing; High Acuity; Mental Health; Paediatrics Combined with Applied Science (Exercise and Sport Sciences), Arts, Health Sciences, Science

**A** Depends on combined degree chosen**OCCUPATIONAL THERAPY****R** Chemistry or Biology**ORAL HEALTH**

Dental Hygiene, Dental Therapy, Oral Health Education and Promotion

**R** Chemistry**PHARMACY**

Clinical and Professional Pharmacy Practice, Pharmaceutical Sciences including Medicinal Chemistry and Pharmaceuticals, Pharmacology, Pharmacy

**P** Special Tertiary Admissions Test (STAT)  
**A** Mathematics and Chemistry  
**R** Biology or Physics**PHYSIOTHERAPY****A** Physics and Chemistry  
**R** Mathematics**POLITICAL, ECONOMIC AND SOCIAL SCIENCES**Major from: core subjects Government and International Relations, Political Economy, Sociology or Anthropology  
Second major from: core subject areas or subjects including either Economics, Geography, Industrial Relations and Human Resource Management, or Management. See also Arts and Social Sciences**A** Depends on first-year subjects selected**PROJECT MANAGEMENT**

Civil Engineering Science, Built Environment, Complex Project Co-ordination, Management Data and Analytics, Organisational Behaviour, Project Finance, Project Management, Psychology, Quality Management and Negotiating and Contracting Project Services, Risk Management, Software Management, Statistics

**A** HSC Mathematics Extension 1**PSYCHOLOGY**Arts stream – see also Arts  
Science stream – see also Science**A** Mathematics (Science stream only). Other assumed knowledge depends on subjects selected**RESOURCE ECONOMICS**

Biology, Chemistry, Commercial Law, Economics, Finance, Geography, Geology, Government and International Relations, Marine Science, Mathematics, Resource Economics, Soil Science, Statistics

**A** HSC Mathematics Extension 1  
**R** Biology or Chemistry or Earth and Environmental Science

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## SCIENCE

**Advanced Mathematics**

**Advanced Science**

**Science/M Nutrition and Dietetics**

**Science**

Agricultural Chemistry, Anatomy and Histology, Biochemistry, Bioinformatics, Biology (Animal, Plant, Genetics), Cell Pathology, Chemistry, Computational Science, Computer Science, Environmental Studies, Financial Mathematics and Statistics, Geography, Geology and Geophysics, History and Philosophy of Science, Immunobiology, Information Systems, Marine Science, Mathematics, Medicinal Chemistry, Microbiology, Nanoscience and Technology, Neuroscience, Pharmacology, Physics, Physiology, Plant Science, Psychology, Soil Science, Statistics

**A** Mathematics or HSC Mathematics Extension 1. Other assumed knowledge depends on subjects chosen.

**For Advanced Mathematics:**

HSC Mathematics Extension 2

**For Nutrition and Dietetics:**

Mathematics, Chemistry and Biology

## SCIENCE IN AGRICULTURE

Agricultural Chemistry, Agricultural Economics, Agricultural Genetics, Agronomy, Entomology, Environmetrics, Farming Systems, Food Science, Horticulture, Livestock Production, Plant Pathology, and Soil Science

**A** Mathematics and Chemistry

## SOCIAL WORK

Indigenous Studies, Psychology, Social Policy, Social Work, Sociology

**A** Knowledge required or assumed depends on first-year subjects selected

## SPEECH PATHOLOGY

Identification and Treatment of Speech and Language Impairments as well as other Communication Disorders

**R** English (Advanced)

## VETERINARY SCIENCE

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

**P** Special Tertiary Admissions Test (STAT) and Statement of Commitment to Veterinary Science  
**A** Chemistry, Physics and Mathematics  
**R** Biology

## VISUAL ARTS

**Fine Art majors**

Painting, Performance and Installation, Printmedia, Sculpture

**Media Art majors**

Film and Digital Art, Photomedia

**Object Art and Design majors**

Ceramics, Glass, Jewellery and Object

**P** Interview and portfolio

**R** Visual Arts and Design and Technology


## COMBINED AND DOUBLE DEGREES

It is possible to combine many of the above areas of study. If you intend to take a combined degree, you will need to check the assumed knowledge and recommended studies for both degrees. Many degrees are flexible and allow you to take studies from across a range of faculties.


## Enquiries

 Undergraduate Admissions Office  
Student Administration Unit – Level 5  
University of Technology, Sydney  
PO Box 123  
Broadway NSW 2007

**in person:** UTS Student Centre – Broadway  
Foyer Level  
UTS Tower Building  
1 Broadway Sydney NSW

 1300 ASK UTS  
(1300 275 887)

or: UTS Student Centre – Kuring-gai  
Level 6 Main Building  
UTS Kuring-gai campus  
Eton Road Lindfield NSW

 1300 ASK UTS  
(1300 275 887)

## READ THIS FIRST

- There are no course prerequisites for entry into degree courses at UTS.
- When you read ‘**any two units of science**’ or ‘**at least two units of science**’, this can include Biology, Chemistry, Physics, Earth and Environmental Science, Senior Science.

## MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## APPLIED SCIENCE

### Property Economics

Property Investment, Property Management, Real Estate Practice, Valuation and Development

**A** Mathematics and any two units of English

## ARCHITECTURE

Architectural Design, Technology, Theory and Professional Practice

**A** Mathematics and any two units of English  
**R** Physics, Visual Arts or any two units of history

## ARTS

### Communication – Information and Media

Communication and Information Studies, Information and Media

**A** Any two units of English

### Communication – Journalism

Communication and Information Studies, Journalism

**A** Any two units of English

### Communication – Media Arts and Production

Cultural Studies, Film, New Media, Sound, Video

**A** Any two units of English

### Communication – Public Communication

Advertising, Communication and Information Studies, Public Relations

**A** Any two units of English

### Communication – Social Inquiry

Social Inquiry, Social, Political and Historical Studies

**A** Any two units of English

### Communication – Writing and Cultural Studies

Cultural Studies, Writing

**A** Any two units of English

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ARTS (continued)****Global Studies**

Business Studies, Communication, Information Technology, Legal Studies, Management Studies, Organisational Learning

**A** Any two units of English**Sound and Music Design**

Composition, Cultural Context of Music Design, Informative Sound, Interaction Design, Multimodal Expression, Sonic Interfaces

**A** Any two units of English**BIOMEDICAL SCIENCE**

Biochemistry, Cell Biology, Immunology, Microbiology, Molecular Biology, Pathology

**A** Mathematics, any two units of English and at least two units of science**R** HSC Mathematics Extension 1 and Chemistry**BIOTECHNOLOGY**

Biological Sciences, Microbiology, Molecular Biology, Science and Technology Studies

**A** Mathematics, any two units of English and at least two units of science**R** HSC Mathematics Extension 1 and Chemistry**BUILDING****Construction Project Management**

Contract Administration, Legal Studies, Material Science, Quantity Surveying, Structures, Surveying, Sustainable Development and Project Management

**A** Mathematics and any two units of English**BUSINESS****Accounting****A** Mathematics and any two units of English**Business**

Accounting, Advertising and Promotions Management, Banking, Economics, Finance, Financial Planning, Human Resource Management, Information Technology, International Business, Management, Marketing, Sports Management, Tourism

**A** Mathematics and any two units of English**Events and Leisure Management**

Commercial Leisure Services, Parks and Natural Area Management, Tourism

**A** Any two units of English**Human Movement Studies**

Kinesiology, Sports Management

**A** Mathematics and any two units of English**Mathematics and Finance**

Accounting, Economics, Finance, Mathematics, Statistics

**A** Mathematics and any two units of English  
**R** HSC Mathematics Extension 1**Property Economics**

Property Investment, Property Management, Real Estate Practice, Valuation and Development

**A** Mathematics and any two units of English**Sport and Exercise Management**

Exercise Physiology, Management, Marketing, Sport Psychology

**A** Mathematics and any two units of English**Tourism Management**

Marketing, Planning, Tourism Management, Travel Industry Operations

**A** Any two units of English

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## DESIGN

### Architecture

Architectural Design, Technology, Theory and Professional Practice

**A** Mathematics and any two units of English  
**R** Physics, Visual Arts or any two units of history

### Fashion and Textile Design

Fashion Illustration, Marketing, Menswear, Pattern Making and Construction, Styling and Digital Media, Tailoring, Textiles, Womenswear

**A** Any two units of English  
**R** Visual Arts or Design and Technology or Textiles and Design

### Industrial Design

Computer Aided Design, Ergonomics, Form and Material Design, Structure, Sustainability, Three Dimensional Form

**A** Any two units of English  
**R** Design and Technology or Visual Arts

### Interior Design and Spatial Design

Commercial, Design Thinking, Digital Technology, Event and Exhibition Design, Performative Space, Residential, Spatial Design

**A** Any two units of English  
**R** Visual Arts, Design and Technology or Textiles and Design or Business Studies

### Photography and Situated Media

Culture and Context, History and Theory, Innovation Technologies, Photography, Photomedia, Situated and Interactive Media, Situated Media and Installation

**A** Any two units of English  
**R** Design and Technology, Visual Arts

### Visual Communication

Animation, Design Theory, Graphic Design, Information Design, New Media, Typography, Video Design, Web Design

**A** Any two units of English  
**R** Visual Arts, Design and Technology, or English (Advanced)

## EDUCATION

### Primary Education

**A** Any two units of English (Band 4) and any two units of mathematics (Band 4)

### Organisational Learning

Business, e-Learning, Human Resource Development, Human Resource Management

**A** Any two units of English

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

## ENGINEERING, DIP ENGINEERING PRACTICE

Civil, Civil and Environmental, Computer Systems, Construction, Electrical, ICT Engineering, Innovation, Mechanical, Mechanical and Mechatronic, Software, Structures, Telecommunications

**A** HSC Mathematics Extension 1, Physics and English (Standard)  
**R** English (Advanced)

## FORENSIC BIOLOGY

Biochemistry, Biomedical Science, Cell Biology, Immunology, Microbiology, Molecular Biology, Pathology

**A** Mathematics, any two units of English and at least two units of science  
**R** HSC Mathematics Extension 1 and Chemistry

## FORENSIC SCIENCE

Applied Chemistry

**A** Mathematics, any two units of English and at least two units of science  
**R** HSC Mathematics Extension 1, Physics, Chemistry

## GLOBAL STUDIES

Business Studies, Communication, Global Studies, Information Technology, Legal Studies, Management Studies, Organisational Learning

**A** Any two units of English

<p><b>MAIN AREA OF STUDY</b> Major Studies</p> <p><i>(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)</i></p>	<p><b>P</b> = Prerequisites  <b>SP</b> = Subject Prerequisites  <b>A</b> = Assumed Knowledge  <b>R</b> = Recommended Studies  <b>N</b> = None</p>
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## HEALTH SCIENCE

<p><b>Traditional Chinese Medicine</b> Acupuncture, Anatomy and Physiology, Chinese Herbal Medicine, Pharmacology</p>	<p><b>A</b> Any two units of English and any two units of science  <b>R</b> Biology</p>
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## INFORMATION TECHNOLOGY

<p>Business Information Systems Management, Computer Graphics and Animation, Computing and Data Analytics, Enterprise Systems Development, Games Development, Internetworking and Applications</p>	<p><b>A</b> Mathematics and any two units of English  <b>R</b> HSC Mathematics Extension 1, English (Advanced)</p>
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## LAW

### LAW (COMBINED)

<p>The following combined law courses are offered:          Business/Law          Communication (Information and Media)/Law          Communication (Journalism)/Law          Communication (Media Arts and Production)/Law          Communication (Public Communication)/Law          Communication (Social Inquiry)/Law          Communication (Writing and Cultural Studies)/Law          Engineering Science/Law          Information Technology/Law          International Studies/Law          Medical Science/Law          Science/Law</p>	<p><b>A</b> <b>For Law:</b> any two units of English  <b>For the other area of study:</b> refer to the relevant entry</p>
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## MATHEMATICS AND COMPUTING

<p>Computing, Information Technology, Mathematics, Operations Research, Statistics</p>	<p><b>A</b> Mathematics and any two units of English  <b>R</b> HSC Mathematics Extension 1</p>
--	--

## MATHEMATICS AND FINANCE

<p>Computing, Economics, Finance, Mathematics, Statistics</p>	<p><b>A</b> Mathematics and any two units of English  <b>R</b> HSC Mathematics Extension 1</p>
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## MEDICAL SCIENCE

<p>Anatomy, Behavioural Science, Biochemistry, Pathology, Pharmacology, Physiology</p>	<p><b>A</b> Mathematics, any two units of English and any two science subjects  <b>R</b> HSC Mathematics Extension 1 and Chemistry</p>
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## MIDWIFERY

<p><b>A</b> English (Standard)  <b>R</b> Any two units of science and any two units of mathematics</p>
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## NURSING

<p><b>A</b> English (Standard)  <b>R</b> Any two units of science and any two units of mathematics</p>
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## SCIENCE

<p><b>A</b> <b>For all Science courses:</b> Mathematics, any two units of English and any two units of science unless otherwise specified. Refer to box at the beginning of UTS entry</p> <p><b>R</b> HSC Mathematics Extension 1, Physics, Chemistry  <b>R</b> HSC Mathematics Extension 1, Physics, Chemistry</p>
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**MAIN AREA OF STUDY**

## Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**SCIENCE (continued)****Biomedical Science**

Biochemistry, Cellular Biology, Immunology, Microbiology, Molecular Biology, Pathology

**R** HSC Mathematics Extension 1 and Chemistry**Biotechnology**

Biological Sciences, Microbiology, Molecular Biology, Science and Technology Studies

**R** HSC Mathematics Extension 1 and Chemistry**Environmental Biology**

Biological Science, Botany, Ecological Studies, Resource and Environmental Science, Technology Studies, Vegetation and Wildlife Management, Water Science

**R** HSC Mathematics Extension 1 and Chemistry**Environmental Forensics**

Biology, Biodiversity, Ecology, Environmental Chemistry, Environmental Impact Assessment, Environmental Law

**R** HSC Mathematics Extension 1 and Chemistry**Flexible**

Analytical Chemistry, Applied Microbiology, Biology, Cell and Molecular Biology, Computational Science Earth Science, Eco-hydrology, Ecology, Environmental Horticulture, Environmental Science, Freshwater Ecology, Health Science, Industrial Chemistry, Laboratory Pathology, Materials Technology, Nanoscience, Operations Research, Pharmacology, Physics, Physiology, Plant Biotechnology, Pollution Ecology and Statistics

**A** Mathematics Extension 1 and Chemistry or Physics**Marine Biology**

Coastal Studies, Fisheries, Marine Community Ecology, Marine Plants, Tropical and Temperate Marine Biology

**R** HSC Mathematics Extension 1 and Chemistry**Mathematics**

Computing, Mathematics, Operations Research, Statistics

**A** Mathematics and any two units of English  
**R** HSC Mathematics Extension 1**Medical Science**

Anatomy, Behavioural Science, Biochemistry, Pathology, Pharmacology, Physiology

**R** HSC Mathematics Extension 1 and Chemistry**Nanotechnology**

Devices, Machines, Nanomaterials, Nanoscale Sensors, Nanotubes, Optics

**R** HSC Mathematics Extension 1, Physics, Chemistry**Statistics****A** Mathematics and any two units of English  
**R** HSC Mathematics Extension 1 and any two units of science

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## 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.

The University of Technology, Sydney currently offers combined degrees in:

- Biotechnology/Business
- Business/Information Technology
- Engineering/Biotechnology
- Engineering/Business
- Medical Science/Business
- Medical Science/Engineering
- Science/Business
- Science/Engineering


Combined degrees in Law are also offered – refer to main entry for details.

## INTERNATIONAL STUDIES (COMBINED)

The University of Technology, Sydney offers the following degrees with International Studies:

- Biotechnology
- Business
- Communication (Information and Media)
- Communication (Journalism)
- Communication (Media Arts and Production)
- Communication (Public Communication)
- Communication (Social Inquiry)
- Communication (Writing and Cultural Studies)
- Construction
- Education
- Engineering
- Events and Leisure Management
- Fashion and Textiles Design
- Human Movement Studies
- Industrial Design
- Information Technology
- Interior and Spatial Design
- Law
- Mathematics and Computing
- Mathematics and Finance
- Medical Science
- Nursing
- Organisational Learning
- Photography and Situated Media
- Property Economics
- Science
- Sound and Music Design
- Sport and Exercise Management
- Tourism Management
- Visual Communication

## Enquiries

 Course Information Centre  
University of Western Sydney  
Locked Bag 1797  
Penrith NSW 2751

 1300 897 669

**email:** [study@uws.edu.au](mailto:study@uws.edu.au)

**in person:** **Bankstown campus**  
Student Central  
Building 1, Bullecourt Avenue  
Milperra NSW

**Nirimba (Blacktown)**  
Student Central  
Building U8, Eastern Road  
Quakers Hill NSW

**Campbelltown campus**  
Student Central  
Building 12, Narellan Road  
Campbelltown NSW

**Hawkesbury campus**  
Student Central  
Building G7, Bourke Street  
Richmond NSW

**Parramatta campus**  
Student Central  
Building EJ, Cnr James Ruse Drive  
and Victoria Road  
Parramatta NSW

**Penrith campus**  
Student Central  
Building K, Second Avenue  
Kingswood NSW

## READ THIS FIRST

When you read 'any two units of science' this can include Biology, Chemistry, Physics, Earth and Environmental Science, Senior Science.

### MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## ARTS

Arabic, Asian Studies and International Relations, Chinese, Cultural and Social Analysis, English Text and Writing, Global Studies, History and Political Thought, Islamic Studies, Italian, Japanese, Linguistics, Media and Visual Cultures, Psychology, Religion Anthropology and Philosophy, Spanish

### Dean's Scholars

**A** Any two units of English (Band 4)  
**R** English (Standard) or equivalent

### Pathway to Teaching (Primary)

**A** Any two units of English (Band 4)  
**R** English (Standard) or equivalent

### Pathway to Teaching (Secondary)

**A** Any two units of English (Band 4) and two units of mathematics  
**R** English (Standard) or equivalent

### Interpreting and Translation Interpreting and Translation (Dean's Scholars)

**A** Any two units of English (Band 4)  
**R** English (Standard) or equivalent

**A** Any two units of English, plus be a native or near native speaker of one of the following languages: Arabic, Chinese, Japanese or Spanish

Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**BUSINESS AND COMMERCE****BUSINESS AND COMMERCE****(ADVANCED BUSINESS LEADERSHIP)**

Accounting

Applied Finance

Hospitality Management

Human Resource Management and Industrial Relations

International Business

Management

Marketing

Property

Sport Management

**A** Mathematics and any two units of English**COMMUNICATION**Advertising, Journalism, Media Arts Production,  
Public Relations**A** Any two units of English  
**R** English (Standard)**COMMUNITY WELFARE****R** Any two units of English**COMPUTER SCIENCE**Computer Forensics, Networked Systems,  
Systems Programming**A** Mathematics  
**R** HSC Mathematics Extension 1**COMPUTER SCIENCE (ADVANCED)****A** Mathematics and any two units of English  
**R** HSC Mathematics Extension 1**COMPUTING (INFORMATION SYSTEMS)****A** Mathematics and any two units of English**CONSTRUCTION MANAGEMENT****R** Mathematics, Physics and any two units  
of English**CONTEMPORARY ART****P** TAFE Diploma of Fine Arts or equivalent  
**A** Visual Arts**DESIGN**

Visual Communication

**N** None**DESIGN AND TECHNOLOGY****A** Any two units of English and at least two of  
Design and Technology, Visual Arts, Physics or  
Mathematics**ECONOMICS****A** Mathematics and any two units of English**EDUCATION (BIRTH TO 5 YEARS)****P** Diploma of Children's Services or equivalent  
**A** Any two units of English

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ENGINEERING**

Civil, Computer, Construction, Electrical, Environmental, Mechanical, Robotics and Mechatronics, Telecommunications

**A** Mathematics and any two units of science and any two units of English  
**R** Physics and HSC Mathematics Extension 1 or HSC Mathematics Extension 2**ENGINEERING/MASTER ENGINEERING SCIENCE****A** Mathematics (at Band 5 or higher), and any two units of science and any two units of English  
**R** Physics and HSC Mathematics Extension 1 or HSC Mathematics Extension 2**ENGINEERING (ADVANCED)  
ENGINEERING (ADVANCED)/  
MASTER ENGINEERING SCIENCE****A** HSC Mathematics Extension 1, Physics and any two units of English  
**R** HSC Mathematics Extension 2**ENGINEERING SCIENCE****A** Mathematics (at Band 5 or higher), and any two units of science and any two units of English  
**R** Physics and HSC Mathematics Extension 1 or HSC Mathematics Extension 2**FINANCIAL ADVISING****A** Mathematics and any two units of English**FORENSIC SCIENCE****A** At least two of Biology, Chemistry or Mathematics**HEALTH SCIENCE**

Health Promotion, Health Services Management, Therapeutic Recreation

**A** Any two units of English**Occupational Therapy****A** Any two units of English**Personal Development, Health and Physical Education****A** Any two units of English  
**R** Personal Development, Health and Physical Education or Community and Family Studies**Physiotherapy****A** Any two units of English**Podiatric Medicine****A** Any two units of English**Sport and Exercise Science****R** Any two units of English plus four units of science and/or mathematics  
Personal Development, Health and Physical Education can be counted as a science unit for this course**Traditional Chinese Medicine****A** Any two units of English**HOUSING****A** Mathematics and Physics and any two units of English**INDUSTRIAL DESIGN****A** Design and Technology and any two units of English plus at least two of Business Studies, Mathematics, Physics, Visual Arts**INFORMATION AND COMMUNICATIONS TECHNOLOGY****A** Mathematics and any two units of English

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**INTERNATIONAL STUDIES****A** Any two units of English (Band 4)**R** English (Standard)**LAW****LAW (COMBINED)**

The following combined law courses are offered:

Arts/Laws

Business and Commerce/Laws

Business and Commerce (Advanced Business

Leadership)/Laws

Communication Studies/Laws

Economics/Laws

Science/Laws

Social Science/Laws

**A** **For Law:** English (Advanced)**For the other area of study:** refer to the relevant entry**MEDICAL SCIENCE****MEDICAL SCIENCE (ADVANCED)****A** At least two of Biology, Chemistry, Mathematics or Physics**MEDICINE/SURGERY****P** Undergraduate Medicine and Health Sciences Admission Test (UMAT) and interview**R** Chemistry**MUSIC****P** Audition and interview**NATURAL SCIENCE****A** At least two of Biology, Chemistry, Mathematics and Physics**R** Any two units of science**NATURAL SCIENCE (ADVANCED)****A** At least two of Biology, Chemistry, Mathematics and Physics**R** Any two units of science**NURSING****A** Any two units of English, any two units of mathematics and any two units of science**NURSING (ADVANCED)****A** Any two units of English, any two units of mathematics and any two units of science**POLICING****N** None**PSYCHOLOGY****N** None

## MAIN AREA OF STUDY

### Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## SCIENCE

- A** At least two of Biology, Chemistry, Mathematics or Physics
- Students who have attempted General Mathematics or Mathematics but achieved band 2 or 3 (or equivalent) will sit a mathematics skills test after enrolment in order to determine an appropriate maths study pathway
- R** Refer to [www.uws.edu.au](http://www.uws.edu.au)

## SCIENCE (ADVANCED)

- A** At least two of Biology, Chemistry, Mathematics or Physics

## SOCIAL SCIENCE

- A** English Standard or equivalent
- A** English Standard or equivalent
- N** None

Pathway to Teaching (Early Childhood)

Pathway to Master of Urban Management and Planning

## SOCIAL WORK

- A** Any two units of English and two units of Mathematics
- R** English Standard or equivalent

## TOURISM MANAGEMENT

- A** Any two units of English

## COMBINED/DOUBLE DEGREES

For combined/double degrees check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the University of Western Sydney for further details.


The University of Western Sydney offers combined/double degrees in:

- Arts/Business and Commerce
- Information and Communications Technology/Arts
- Information and Communications Technology/Business and Commerce
- Information and Communications Technology/Business and Commerce (Accounting)
- International Studies/Business and Commerce
- Medical Science/Information and Communications Technology
- Medicine/Surgery/Arts
- Science/Arts
- Science/Business and Commerce
- Science/International Studies

Combined/double degrees in Law are also offered. Refer to main entry for details.



## Enquiries

 UniAdvice  
University of Wollongong  
Wollongong 2522

 1300 367 869

**email:** uniadvice@uow.edu.au

**facebook:** facebook.com/uowfuture

**in person:** UniAdvice Office  
Administration Building  
Northfields Avenue  
Gwynneville

**fax:** (02) 4221 3233

## READ THIS FIRST

- General Mathematics and Senior Science may not adequately prepare students for further studies in these areas at University of Wollongong. However, these courses can be included in the calculation of the ATAR.
- When you read '**Mathematics**' this refers to the HSC course titled Mathematics, not General Mathematics.
- **Any two units of science** includes Biology, Chemistry, Earth and Environmental Science, Geography or Physics. It does not include the course Senior Science.
- **Any four units of science** includes two courses from Biology, Chemistry, Earth and Environmental Science, Geography or Physics. It does not include the course Senior Science.

## MAIN AREA OF STUDY

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)*

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## ARTS (HUMANITIES AND SOCIAL SCIENCES) ARTS – DEAN'S SCHOLAR (FACULTY OF ARTS)

Asia Pacific Studies, Australian Studies, Community, Culture and Environment (Shoalhaven, Batemans Bay, Bega and Moss Vale campuses only), Employment Relations, English Literature, English Language and Linguistics, European Studies, French, Gender Studies, History, Indigenous Studies, Indonesian, Italian, Japanese, Mandarin, Media and Cultural Studies, Philosophy, Politics, Post Colonial Studies, Science and Technology Studies, Sociology, Spanish, War and Society

**A** Any two units of English

**R** English (Advanced)

## BUSINESS

**A** Any two units of English

## BUSINESS INFORMATION SYSTEMS BUSINESS INFORMATION SYSTEMS – DEAN'S SCHOLAR

**A** Any two units of English

**R** Mathematics or General Mathematics

## COMMERCE COMMERCE – DEAN'S SCHOLAR

Accountancy, Business Innovation, Business Law, Economics, Finance, Financial Planning, Human Resource Management, International Business, International Economics, Management, Marketing, Public Relations, Quantitative Analysis in Economics, Supply Chain Management

**A** Any two units of English

## MAIN AREA OF STUDY

Major Studies

(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)

**P** = Prerequisites

**SP** = Subject Prerequisites

**A** = Assumed Knowledge

**R** = Recommended Studies

**N** = None

## COMMERCE – EVENT MANAGEMENT COMMERCE – HOSPITALITY MANAGEMENT COMMERCE – TOURISM MANAGEMENT

These degrees may not be available at all campuses and must be studied in conjunction with the relevant TAFE diploma.

**R** Any two units of English

## COMMUNICATION AND MEDIA STUDIES

Digital Media and Communication,  
International Media and Communication,  
Journalism and Professional Writing,  
Marketing Communication and Advertising

**A** Any two units of English

**R** English (Advanced)

## COMPUTER SCIENCE COMPUTER SCIENCE – DEAN'S SCHOLAR

Computer Science, Enterprise Systems Development,  
Digital Systems Security, Multimedia and  
Game Development, Software Engineering

**A** Any two units of English plus Mathematics

## CREATIVE ARTS CREATIVE ARTS – DEAN'S SCHOLAR

Creative Writing, Graphic Design, Music,  
Theatre, Visual Arts

**P** **For Theatre major only:** Audition in combination with ATAR

**A** Any two units of English

**R** **For all majors:** English (Advanced)

**For Visual Arts:** Visual Arts

**For Graphic Design:**

Design and Technology and/or Visual Arts

**For Theatre:** Drama

**For Music:** Music

## DIGITAL MEDIA

This degree is conducted in collaboration with the Illawarra Institute of TAFE at UOW's Innovation Campus in Wollongong

**A** Any two units of English

**R** English (Advanced), Design and Technology and/or Visual Arts

## ECONOMICS AND FINANCE

Economics, Finance, International Economics,  
Quantitative Analysis in Economics

**A** Any two units of English plus Mathematics

## ENGINEERING

Civil, Environmental, Materials, Mechanical,  
Mechatronic or Mining Engineering

**A** Any two units of English plus Mathematics

**R** Chemistry (not required for Mechatronic Engineering), Physics, HSC Mathematics Extension 1 and Engineering Studies

Computer, Electrical or Telecommunications  
Engineering

**A** Any two units of English plus Mathematics

**R** HSC Mathematics Extension 1 and Physics

## ENGINEERING – DEAN'S SCHOLAR

Civil, Environmental, Materials, Mechanical,  
Mechatronic or Mining Engineering

**A** HSC Mathematics Extension 1 plus any two units of English

**R** Chemistry (not required for Mechatronic Engineering), Physics and Engineering Studies

Computer, Electrical or Telecommunications  
Engineering

**A** Mathematics plus any two units of English

**R** HSC Mathematics Extension 1 and Physics

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**ENVIRONMENTAL SCIENCE**Earth Sciences, Environmental Chemistry,  
Land Resources, Life Sciences**A** Mathematics plus Biology or Chemistry or  
Earth and Environmental Science or Geography  
**R** Four units of science (including Biology or  
Chemistry) and Mathematics**EXERCISE SCIENCE AND REHABILITATION**Anatomy, Biomechanics, Exercise Physiology,  
Exercise Prescription, Exercise Rehabilitation**A** Any two units of English plus Chemistry**INDIGENOUS HEALTH**Indigenous Health Issues,  
Indigenous History, Society and Culture,  
Population Health**R** Aboriginal Studies**INFORMATION TECHNOLOGY****INFORMATION TECHNOLOGY – DEAN'S SCHOLAR**eBusiness, Network Design and Management,  
Social Policy, Web Design and Development**A** Any two units of English  
**R** Mathematics or General Mathematics**INTERNATIONAL SCIENCE**Biological Sciences, Chemistry, Geography  
(Physical and Human), Geology, Geosciences**P** Application and interview in combination  
with ATAR  
**A** Mathematics and two units of science  
**R** Four units of science**INTERNATIONAL STUDIES**Global Labour and Employment Studies,  
Study of States, Conflict and Society, Media and  
Communications, Popular Culture, Pacific, Asia,  
Europe, World Literatures. Also includes a  
Language minor**A** Any two units of English  
**R** English (Advanced)**JOURNALISM****A** Any two units of English  
**R** English (Advanced)**LANGUAGE STUDIES**English Language and Linguistics, French,  
Indonesian, Italian, Japanese, Mandarin, Spanish**A** Any two units of English  
**R** English (Advanced)**LAW (SINGLE DEGREE)****A** Any two units of English  
**R** English (Advanced)**LAW (DOUBLE DEGREES)**

The following double degree courses are offered:

Arts/Law  
Business Information Systems/Law  
Commerce/Law  
Communication and Media Studies/Law  
Computer Science/Law  
Creative Arts/Law  
Engineering/Law  
Information Technology/Law  
International Studies/Law  
Journalism/Law  
Mathematics/Law  
Science/Law  
Science (Psychology)/Law**A** **For Law:** Any two units of English  
**R** **For Law:** English (Advanced)  
**For the other area of study:** refer to the  
relevant entry

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**MARINE SCIENCE**

Marine Biology, Marine Geosciences

**A** Mathematics and two units of science  
**R** Four units of science (including Biology or Chemistry)

**MATHEMATICS**

Applied Statistics, Industrial and Applied Mathematics, Mathematical Analysis, Pure Mathematics

**A** Any two units of English plus Mathematics  
**R** HSC Mathematics Extension 1

**Mathematics Advanced****A** HSC Mathematics Extension 2**Mathematics Education (see Teaching)****Mathematics and Finance****A** Any two units of English plus Mathematics**Mathematics and Finance – Dean’s Scholar**

Financial Services, Mathematical Economics, Quantitative Corporate Finance and Investment, Risk Management

**R** HSC Mathematics Extension 1**Medical Mathematics**

**A** Mathematics  
**R** HSC Mathematics Extension 1 and Chemistry

**MEDICAL AND HEALTH SCIENCE**

Anatomy, Neuroscience, Physiology

**A** Any two units of English plus four units of science  
**R** Chemistry

**Advanced**

Anatomy, Neuroscience, Physiology

**P** Application and interview in combination with ATAR

**A** Any two units of English plus four units of science  
**R** Chemistry

**MEDICAL AND RADIATION PHYSICS**

Medical Imaging, Nuclear Medicine, Radiation Protection, Radiobiology

**A** Any two units of English plus Mathematics and Physics  
**R** English (Advanced), HSC Mathematics Extension 1 and Chemistry

**MEDICAL BIOTECHNOLOGY**

Biochemistry, Bioinformatics, Biotechnology, Cellular and Molecular Biology, Genetics, Immunology, Microbiology

**A** Mathematics and two units of science  
**R** Biology and Chemistry

**MEDICINAL CHEMISTRY**

**A** Chemistry and Mathematics  
**R** Four units of science

**NANOTECHNOLOGY**

Chemistry, Materials Engineering

**A** Chemistry, Physics and Mathematics  
**R** HSC Mathematics Extension 1

**NURSING****N** None**Advanced**

Health Leadership and Management, Mental Health

**N** None**NUTRITION AND DIETETICS**

Biochemistry, Dietetics, Food Services, Physiology

**A** Any two units of English plus Chemistry

**MAIN AREA OF STUDY**

Major Studies

*(Areas of study are generally offered as Bachelor degrees unless Dip, Adv Dip or Assoc Deg is shown in brackets)***P** = Prerequisites**SP** = Subject Prerequisites**A** = Assumed Knowledge**R** = Recommended Studies**N** = None**PERFORMANCE**

Acting, Performance-making, Technical Theatre

**P** Audition in combination with ATAR  
**A** Any two units of English  
**R** English (Advanced) and Drama**PSYCHOLOGY****A** Any two units of English  
**R** English (Advanced)**PUBLIC HEALTH**

Public Health

**A** Any two units of English**PUBLIC HEALTH NUTRITION**

Public Health, Nutrition

**A** Any two units of English plus Chemistry**SCIENCE**

Biological Sciences, Chemistry, Environment, Geography, Geology, Geosciences, Land and Heritage Management, Medical Biotechnology, Medicinal Chemistry, Nanotechnology

**A** Mathematics and any two units of science  
**R** Four units of science

Exercise Science, Nutrition

**A** Any two units of English plus Chemistry

Materials, Nuclear Science Technology, Physics

**A** Any two units of English plus Mathematics  
**R** HSC Mathematics Extension 1 plus Chemistry and Physics

Psychology

**A** Any two units of English  
**R** English (Advanced)**Advanced**

Biological Sciences, Chemistry, Environment, Environmental Sciences, Geography, Geology, Geosciences, Land and Heritage Management, Marine Science, Medical Biotechnology, Medicinal Chemistry, Nanotechnology

**A** Mathematics and any two units of science  
**R** Four units of science**Advanced Physics**

Astronomy, Astrophysics, Environmental Physics, Nuclear and Radiation Physics, Physics, Solid State and Semiconductor Physics

**A** Any two units of English plus Mathematics  
**R** HSC Mathematics Extension 1 plus Chemistry and Physics**TEACHING**

Early Years, Primary (including Dean's Scholar)

**A** Any two units of English  
**R** Any two units of mathematics

Mathematics Education (including Dean's Scholar)

**A** Any two units of English plus Mathematics (not General Mathematics)  
**R** HSC Mathematics Extension 1

Physical and Health Education (including Dean's Scholar)

**A** Any two units of English  
**R** Any two units of science or Personal Development, Health and Physical Education

Science Education (including Dean's Scholar)

**A** Any two units of English plus Mathematics (not General Mathematics)  
**R** Any four units of science selected from Biology, Chemistry, Earth and Environment or Physics*Check pages 7–8 for information about HSC English and Mathematics requirements for teaching degrees.*

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## DOUBLE DEGREES

If you intend to undertake double degrees check the prerequisites, assumed knowledge and recommended studies for both degrees. Contact the University for further details.

The University of Wollongong currently offers combined/double degrees in:

- Arts/Commerce
- Arts/International Studies
- Communication and Media Studies/Arts
- Communication and Media Studies/Commerce
- Communication and Media Studies/Creative Arts
- Communication and Media Studies/  
International Studies
- Communication and Media Studies/Science
- Computer Science/Science
- Creative Arts/Arts
- Creative Arts/Commerce
- Creative Arts/Computer Science
- Creative Arts/International Studies
- Creative Arts/Science
- Engineering/Arts
- Engineering/Commerce
- Engineering/Computer Science
- Engineering/Mathematics
- Engineering/Science
- International Studies/Commerce
- Journalism/Arts
- Journalism/Commerce
- Journalism/Communication and Media Studies
- Journalism/Creative Arts
- Journalism/Engineering
- Journalism/International Studies
- Journalism/Science
- Mathematics/Computer Science
- Psychology/Commerce
- Science/Arts
- Science/Commerce
- Science/Mathematics

Double degrees in Law are also offered. Refer to main entry for details.

# Glossary

Following is a summary of terms generally used by the participating institutions. Take a few minutes to read these definitions, as they will help you to understand the information provided in this booklet. These definitions are usually included in each institution's calendar/handbook.

## **Academic year**

The part of the year when students are enrolled in tertiary study. The academic year normally commences in February/March when classes begin, and ends with the examination period in November/December. It may comprise two semesters or three terms.

## **Additional selection criteria**

Compulsory requirements, either in addition to, or instead of, normal entry requirements used by institutions for selection purposes for a particular course/s. For example, interviews, auditions, portfolios, supporting statements, questionnaires and tests.

These requirements are listed as prerequisites (P) in this booklet and applicants must satisfy the prerequisite/s to be eligible for selection.

You should seek further information now as some of these require materials and evidence of experience, to be compiled or documented during Years 11 and 12.

## **Admission requirements**

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 these minimum qualifications does not guarantee you will be offered a place.

## **Advanced diploma**

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

## **Areas of study**

A general guide to the areas of study offered by institutions is provided in section 5 in the front of this booklet. Refer also to 'Areas of study index' after the Glossary.

## **Associate degree**

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

## **Assumed knowledge (shown as A)**

A level of achievement in a specified course at the NSW HSC (or equivalent) considered desirable for successful study in a tertiary course or first-year subject.

If you do not have the assumed level of knowledge but do have a suitable ATAR you may still be selected for the course, but may be placed at a considerable disadvantage.

Some institutions offer bridging or introductory courses to help you achieve the required level of assumed knowledge. However if you include one or more of these bridging courses in your program, it could prevent you from completing your tertiary course in the minimum time.

Refer also to 'How to read the institutions' entries' on page 9.

## **Australian Tertiary Admission Rank (ATAR)**

The ATAR is a rank made up of scaled marks that provides a measure of overall academic achievement in the HSC. It helps institutions rank applicants for tertiary selection in a fair and equitable way. The ATAR is calculated by institutions and released by UAC.

## **Bachelor degree**

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

## **Combined/double degrees**

Combined/double degrees allow students to complete two degrees in less time than would be taken if the two degrees are studied sequentially.

## **Deferment**

Permission to delay the commencement of a course for a fixed period, usually one year.

Some institutions only grant deferment 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 required for a degree.

## **Distance education**

A form of full-time or part-time study that takes place outside the tertiary institution, either at a study centre or at home by correspondence. Periodical residential attendance at on-campus sessions is usually required.

## **HSC subjects and 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, within the subject of English the courses include English (Standard), English (Advanced), HSC English Extension 1 and so on.

## **Major studies**

Areas of in-depth study or specialisation within a course, consisting of a sequence of subjects/units in a single discipline generally studied throughout the course. Major studies comprise more subjects/units than minor studies. In some courses it is possible to have more than one major study.

Some institutions may refer to major studies as majors or specialisations.

## **Prerequisites**

An essential prescribed level of achievement which must be reached in a specified course/s at the NSW HSC (or equivalent) before an applicant is considered. There are two types of prerequisites: course prerequisites and subject prerequisites. These are explained below and in the front of this booklet.

An institution may specify both types of prerequisites; only one type of prerequisite; or may not specify prerequisites at all. If prerequisites are not required by an institution generally a level of Assumed Knowledge is specified (see above).

### **Course prerequisites (shown as P)**

Some courses require that you have achieved a prescribed standard in a specified NSW HSC (or equivalent) course/s before an offer of a place will be made.

If you do not have the required course prerequisite(s) you cannot be selected for the institution's course even though you may have met the admission requirements.

Course prerequisites may also relate to other requirements such as an interview, portfolio or questionnaire.

### **Subject prerequisites (shown as SP)**

Some particular subjects within a tertiary course require that you have achieved a prescribed standard in a specified NSW HSC (or equivalent) course/s before you are allowed to enrol in those particular subjects.

If you do not have the required subject prerequisite/s, but have met the admission requirements, you may still be selected for the course, but may be unable to take the particular subject within the course.

Some institutions offer bridging or introductory courses to help you achieve the required standard.

However if you include one or more of these bridging courses in your program, it could prevent you from completing your tertiary course in the minimum time.

Subject prerequisites may also relate to other requirements such as an interview, portfolio or questionnaire.

## **Recommended studies (shown as R)**

These are NSW HSC or equivalent or other courses that the institutions suggest will assist you in your chosen tertiary course.

If you have not studied these courses your chances of selection are not affected.

### **Undergraduate course**

As used in this booklet, an undergraduate course means one leading to a first qualification, namely an associate diploma, or a diploma, or a first degree of bachelor.

### **University**

A tertiary institution offering undergraduate and postgraduate degrees and diplomas.

### **Universities Admissions Centre (UAC)**

The Universities Admissions Centre (NSW & ACT) Pty Ltd (UAC) is the central office that receives and processes applications for admission to most undergraduate courses at participating tertiary institutions. UAC notifies current NSW HSC students of their ATAR and posts offers of admission to tertiary courses to successful applicants.

# Areas of study index

Below are the broad areas of study offered by institutions in NSW and the ACT. Under each area of study you will find the abbreviated names of institutions which offer that area of study. A key to the abbreviated names is located on the bottom of the next page, along with the page number on which the institution's entry begins.

Under some broad areas of study you will find examples of the types of subjects that may be offered within that area – for example, within a business course you may be able to study accounting.

This information is provided as a rough guide only. Each institution does not offer all subjects listed under the broad areas of study – for details of the courses and subject areas that are offered by each institution check the relevant institution entries starting on page 13.

## ARCHITECTURE/BUILDING/DESIGN AND PLANNING

May include: construction economics, construction management, construction technology, fashion design, industrial design, interior design, landscape architecture, quantity surveying

ANU	GU	MQ
UC	UNE	UNSW
UNCLE	USYD	UTS
UWS		

## ARTS/HUMANITIES

May include: Aboriginal studies, Asian studies, Australian studies, English, history, international studies, languages, linguistics, literature, philosophy, political science/studies, psychology, religious studies, sociology, theology, writing, women's studies

ACU	ANU	CSU
GU	LTU	MQ
SCU	UC	UNE
UNSW	UNSW-ADFA	UNCLE
USYD	UTS	UWS
UOW		

## BUSINESS/COMMERCE/ECONOMICS/ MARKETING/MANAGEMENT

May include: accounting, actuarial studies, agribusiness, banking, business administration/studies, e-business, econometrics, electronic commerce, employment relations, finance, financial advising/planning, industrial relations, international business, human resource management, property economics, statistics

ACU	AMC	ANU
CSU	GU	LTU
MQ	SCU	UC
UNE	UNSW	UNSW-ADFA
UNCLE	USYD	UTS
UWS	UOW	

## COMMUNICATIONS/MEDIA STUDIES

May include: advertising, digital media, film, information management, journalism, media theory and production, multimedia, public relations, television and radio, video, writing

ACU	ANU	CSU
GU	MQ	SCU
UC	UNE	UNSW
UNCLE	USYD	UTS
UWS	UOW	

## CREATIVE AND PERFORMING ARTS

May include: ceramics, creative writing, fashion, fine arts, graphic design, illustration, music composition, music performance, music production, painting, photography, printmaking, sculpture, theatre studies, visual arts/communication

ACU	ANU	CIT
CSU	GU	LTU
MQ	SCU	UC
UNE	UNSW	UNCLE
USYD	UTS	UWS
UOW		

## EARTH AND ENVIRONMENTAL SCIENCES

May include: climate change, conservation studies, environmental rehabilitation studies, food sustainability, forestry, geography (human and physical), geology, geophysics, marine, resource and environmental management

ACU	AMC	ANU
CSU	GU	LTU
MQ	SCU	UC
UNE	UNSW	UNSW-ADFA
UNCLE	USYD	UTS
UWS	UOW	

## EDUCATION/TEACHING

May include: adult education, community education, early childhood teaching, health education/promotion, human resource development, organisational learning, primary teaching, secondary teaching

ACU	ANU	CSU
GU	LTU	MQ
SCU	UC	UNE
UNSW	UNCLE	USYD
UTS	UWS	UOW

## ENGINEERING

AMC	ANU	GU
MQ	UC	UNSW
UNSW-ADFA	UNCLE	USYD
UTS	UWS	UOW

## HEALTH SCIENCES

May include: biomedical sciences, chiropractic, Chinese medicine, clinical science, dental science, dental technology, diversional therapy, medical imaging, medical laboratory science, medical radiation science, naturopathy, nutrition and dietetics, occupational therapy, oral health, orthoptics, osteopathy, physiotherapy, podiatry, radiography, speech therapy

ACU	ANU	CSU
GU	MQ	SCU
UC	UNE	UNSW
UNCLE	USYD	UTS
UWS	UOW	

## HUMAN MOVEMENT/SPORT SCIENCES/ PHYSICAL EDUCATION

May include: exercise physiology, exercise science, sports coaching, sports management, sports psychology

ACU	CSU	GU
MQ	SCU	UC
UNE	UNSW	UNCLE
USYD	UTS	UWS
UOW		

## INFORMATION TECHNOLOGY

May include: computing, computer science, electronics, information systems, programming, software engineering

ANU	CIT	CSU
GU	MQ	SCU
UC	UNE	UNSW
UNSW-ADFA	UNCLE	USYD
UTS	UWS	UOW

## LAW

May include: conveyancing, justice studies, legal studies, paralegal studies

ANU	CSU	GU
MQ	SCU	UC
UNE	UNSW	UNCLE
USYD	UTS	UWS
UOW		

## MEDICAL SCIENCES

May include: biomedical sciences, medicine, optometry, pharmacy

ANU	CSU	GU
MQ	UNE	UNSW
UNCLE	USYD	UTS
UWS	UOW	

## NURSING

May include: midwifery

ACU	CSU	GU
LTU	SCU	UC
UNE	UNCLE	USYD
UTS	UWS	UOW

## SCIENCE/APPLIED SCIENCE/ TECHNOLOGY

May include: agricultural science, applied studies aviation science, animal science, chemistry, biological science, climate change, equine science, food science or technology, forensics, horticulture, marine science, mathematics, physics, property, psychology, statistics, technology, veterinary sciences

ACU	AMC	ANU
CIT	CSU	GU
LTU	MQ	SCU
UC	UNE	UNSW
UNSW-ADFA	UNCLE	USYD
UTS	UWS	UOW

## SOCIAL SCIENCES

May include: behavioural science, commerce, criminology, geography, policy studies, social ecology, sociology

ACU	ANU	CSU
GU	LTU	MQ
SCU	UC	UNE
UNSW	UNCLE	USYD
UTS	UWS	UOW

## SOCIAL WORK/WELFARE WORK

ACU	CSU	GU
LTU	SCU	UNE
UNSW	UNCLE	USYD
UWS		

## TOURISM/HOSPITALITY MANAGEMENT

May include: event management, hotel management, leisure studies, real estate and property development, recreational management and planning, tourism management, sport management

CSU	GU	MQ
SCU	UC	UNSW
UNCLE	UTS	UWS
UOW		

### Key to abbreviated institution names

ACU	Australian Catholic University – page 13	UC	University of Canberra – page 42
AMC	Australian Maritime College – page 15	UNE	University of New England – page 46
ANU	Australian National University – page 16	UNSW	University of New South Wales – page 49
CIT	Canberra Institute of Technology – page 22	UNSW-ADFA	Australian Defence Force Academy – page 54
CSU	Charles Sturt University – page 23	UNCLE	University of Newcastle – page 55
GU	Griffith University – page 26	USYD	University of Sydney – page 61
LTU	La Trobe University – page 30	UTS	University of Technology, Sydney – page 67
MQ	Macquarie University – page 32	UWS	University of Western Sydney – page 73
SCU	Southern Cross University – page 38	UOW	University of Wollongong – page 78