

UNIVERSITY ADMISSION 2022

Admission Requirements
for School Leavers
completing Year 12 in 2021



TISC

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This information is correct as at 4 September 2020.
Ensure that you access the TISC website (www.tisc.edu.au) regularly
to check for any updates.

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ABBREVIATIONS

The following abbreviations have been used in this brochure:

AQF	Australian Qualifications Framework	RTO	Registered Training Organisation
ATAR	Australian Tertiary Admission Rank	TEA	Tertiary Entrance Aggregate
EAL/D	English as an Additional Language/Dialect	TISC	Tertiary Institutions Service Centre
ECU	Edith Cowan University	UWA	The University of Western Australia
IELTS	International English Language Testing System	WACE	Western Australian Certificate of Education
LOTE	Language Other Than English		

FOREWORD

The following information is issued on behalf of the four Western Australian public universities. Its aim is to help Year 10 students to decide on their senior school courses, so that they meet university admission requirements. Remember to choose courses which will allow entry to a wide range of university courses.

This information is correct as at 4 September 2020 and is based on information provided by the participating universities and information available from the School Curriculum and Standards Authority (SCSA) at the time of publication.

This brochure applies to students who will be under 20 years of age on 28 February 2022 (ie those born on or after 1 March 2002). It is relevant only for admission in 2022 and is subject to change without notice.

WAYNE BETTS
TISC Executive Officer

PARTICIPATING UNIVERSITIES

Curtin University Murdoch University
Edith Cowan University The University of Western Australia

DISCLAIMER

The universities reserve the right to change the content and/or method of presentation and/or the method of assessment of any unit of study, to withdraw any unit of study or program which they offer, to impose limitations on enrolment in any unit or program, and/or vary arrangements for any program. Enquiries regarding university admission requirements should be directed to the individual university(ies) concerned.

TISC and the participating universities cannot accept liability for any incorrect advice received from sources other than TISC, the universities or the universities' officially appointed agents.

UNIVERSITY APPLICATION PROCEDURES

Information about applying to the universities and admission to undergraduate courses will be sent to Year 12 students at their schools in August 2021. Application will be via TISC's website.

The closing date for applications without incurring a late fee is normally the last working day in September. Offers of admission are made in the weeks following the release of Year 12 results.

Any further information about application procedures may be obtained from TISC. Enquiries about mid-year entry, external studies, postgraduate studies, timetables and particular course requirements should be directed to the university concerned.

You need to apply for admission through TISC if you:

- are an Australian citizen,
- are a New Zealand citizen,
- have been approved/granted Australian permanent resident status.

If you are not one of the above, you are an international student and you need to apply direct to the relevant university.

REQUIREMENTS FOR UNIVERSITY ADMISSION

To be considered for university admission as a school leaver applicant, normally you must -

1. meet the requirements for the **Western Australian Certificate of Education (WACE)** prescribed by the School Curriculum and Standards Authority, and
2. achieve **competence in English** as prescribed by the individual universities, and
3. obtain a sufficiently high **ATAR/Selection Rank** for entry to a particular course, and
4. satisfy any prerequisites or special requirements for entry to particular courses.

PORTFOLIO ENTRY INTO SELECTED COURSES AT CURTIN UNIVERSITY

Alternative entry is available in selected courses for those who can demonstrate equivalence to Curtin's ATAR entry through the submission of a portfolio. You can visit <http://futurestudents.curtin.edu.au/school-leavers/how-to-get-in/flexible-entry-pathways/portfolio.cfm> for further information about the portfolio requirements and application process. An interview might be required as part of the application process.

EXPERIENCE BASED ENTRY SCHEME PATHWAY TO EDITH COWAN UNIVERSITY (ECU)

ECU offers an additional pathway for entry by school leaver students. To be considered for admission by Experience Based Entry Scheme Pathway, you must meet WACE, English competency requirements, satisfy any prerequisites or special requirements for entry to particular courses and have studied a minimum of four courses in Year 12, three of which need to be at ATAR level. Applications will be partially assessed prior to release of final results.

Detailed information about the requirements for the Experience Based Entry Scheme Pathway to ECU may be obtained from the Future Students team on 134 328 or www.ecuworldready.com.au.

MEDIA AND CREATIVE PORTFOLIO ENTRY TO MURDOCH UNIVERSITY

In addition to the requirements outlined above, Murdoch University offers a portfolio pathway for admission to the Bachelor of Arts degrees in English and Creative Writing, and Theatre and Drama; Bachelor of Communication degrees in Journalism, and Strategic Communication; Bachelor of Creative Media degrees in Games Art and Design, Graphic Design, Photography, Screen Production, and Sound. You must satisfy Murdoch's English requirement, as outlined below, and should apply through TISC but submit your portfolio directly to Domestic Admissions at Murdoch University. Portfolios will be assessed by academic staff in the relevant discipline. For more information see <https://portfolio.murdoch.edu.au/>.

ADMISSION OF STUDENTS FROM NON-STANDARD SCHOOLS

Normally all school leaver applicants for university are required to meet the admission requirements outlined in this brochure. You may not meet these admission requirements if you are attending a

school that does not follow the standard Western Australian school system. If so, apply for admission to a university course through TISC, but include with your application a statement giving full details of your upper secondary school studies. Your application will be considered on an individual basis. The WACE, awarded by the School Curriculum and Standards Authority, is not required by any of the universities for students from non-standard schools, however achievement of an equivalent senior secondary qualification or certificate may be required. You should check with the university/ies you wish to attend if you are unsure.

SCHOOL LEAVERS WITH AQF/TAFE/RTO QUALIFICATIONS

Curtin University

Curtin University will expect school leaver age applicants who seek entry via this pathway to have, as a minimum:

- successfully completed an AQF/TAFE Certificate IV; and
- achieved WACE; and
- met Curtin University's competence in English requirement; and
- met course prerequisite requirements.

Edith Cowan University

ECU will expect school leaver age applicants who seek entry via this pathway to have, as a minimum:

- successfully completed an ECU approved AQF/RTO Certificate IV as part of their Year 12 studies; and
- achieved WACE; and
- met ECU's competence in English requirement; and
- met course prerequisite requirements.

Students may apply direct to ECU.

Murdoch University

School leavers will be eligible for admission into most Murdoch degree courses, with successful completion of a Certificate IV. They must also have:

- achieved WACE; and
- met Murdoch's competence in English requirement.

The University of Western Australia

The University of Western Australia will accept an AQF/TAFE qualification at Diploma level as a basis of admission for the Bachelor of Arts, Biomedical Science, Commerce and Science courses. Separate evidence of English competence is also required. However, school leavers using a diploma achieved during their Years 11 and 12 must also have:

- achieved WACE; and
- met UWA's competence in English requirement.

1. WESTERN AUSTRALIAN CERTIFICATE OF EDUCATION (WACE)

You must satisfy the requirements of the WACE to enter all four universities, unless you are an applicant from a non-standard WA school. You can obtain detailed information about the WACE from

the School Curriculum and Standards Authority, Mason Bird Building, Level 2, 303 Sevenoaks Street, Cannington 6107, phone (08) 9273 6300, www.scsa.wa.edu.au.

2. COMPETENCE IN ENGLISH

For university admission purposes, usually you demonstrate competence in English by achieving the prescribed standard in one of the courses: English ATAR, Literature ATAR or English as an Additional Language/Dialect (EAL/D) ATAR.

You can meet the competence in English requirement with Year 12 results obtained in any calendar year.

English as an Additional Language/Dialect ATAR can only be taken by students who meet eligibility criteria set by the School Curriculum and Standards Authority. If English as an Additional Language/Dialect ATAR is not available at your school, you should take English ATAR course and also contact the universities for details about alternative acceptable English tests.

ENGLISH ATAR; LITERATURE ATAR; ENGLISH AS AN ADDITIONAL LANGUAGE/DIALECT ATAR

Curtin University

Murdoch University

The University of Western Australia

You must achieve a scaled score of at least 50.

Edith Cowan University

You must achieve

- a scaled score of at least 50 **or**
- a minimum final school letter grade of C achieved in Year 12.

CONCESSIONS

Curtin University

(a) If you have not met the requirement for this university, Curtin University will concede competence in English to you if you have achieved a moderated numeric school assessment or numeric examination assessment of at least 55 in English ATAR or Literature ATAR. For English as an Additional Language/Dialect ATAR, a moderated written school assessment or written exam mark of at least 60 is required.

- (b) If you have not met requirement (a) above for Curtin University but you have:
- achieved an ATAR/Selection Rank above the minimum specified annually by the university, **and**
 - achieved a scaled score less than 50 in English ATAR, Literature ATAR or English as an Additional Language/Dialect ATAR,
- then you may demonstrate your competence in English by sitting the Special Tertiary Admissions Test (STAT), or another test of English approved by the university(ies) early in January.

The University of Western Australia

(a) If you have not met the requirement for this university, The University of Western Australia will concede competence in English to you if you have achieved a moderated numeric school assessment or numeric examination assessment of at least 60 in English ATAR or Literature ATAR. For English as an Additional Language/Dialect ATAR, a moderated written school assessment or written exam mark of at least 60 is required.

- (b) If you have not met requirement (a) above for The University of Western Australia, but you have:
- achieved an ATAR/Selection Rank above the minimum specified annually by the university, **and**
 - achieved a scaled score less than 50 in English ATAR, Literature ATAR or English as an Additional Language/Dialect ATAR,
 - then you may demonstrate your competence in English by sitting the Special Tertiary Admissions Test (STAT), or another test of English approved by the university(ies) early in January.

Murdoch University

(a) If you have not met the requirement for this university, Murdoch University will concede competence in English to you if you have achieved a moderated numeric school assessment or numeric examination assessment of at least 55 in English ATAR or Literature ATAR. For English as an Additional Language or Dialect ATAR, a moderated written school assessment or written exam mark of at least 55 is required.

(b) If you have not met requirement (a) above for Murdoch University, but you have:

- achieved an ATAR above the minimum specified annually by the university, **and**
- achieved a scaled score less than 50 in English ATAR, Literature ATAR or English as an Additional Language/Dialect ATAR,

then you may demonstrate your competence in English by sitting the Special Tertiary Admissions Test (STAT), or another test of English approved by the university early in January.

3. THE AUSTRALIAN TERTIARY ADMISSION RANK (ATAR)

The Australian Tertiary Admission Rank is the basis of admission to most university courses. You are ranked in order of merit based on your ATAR.

The ATAR ranges between zero and 99.95. It reports your rank relative to all other WA students of Year 12 school leaving age and takes into account the number of students with a Tertiary Entrance Aggregate (TEA) as well as the number of people of Year 12 school leaving age in the population of this state. An ATAR of 75.00 indicates that you have an overall rating equal to or better than 75% of the Year 12 school leaving age population in Western Australia.

The ATAR is calculated using scaled scores in ATAR courses.

SCALING

All course results will be scaled to ensure fairness to all students. A scaled score for an ATAR course can only be calculated if a student sits the ATAR course examination for that course. The Average Marks Scaling process is used to scale marks obtained in a course.

CALCULATION OF THE TEA

The ATAR is derived from the Tertiary Entrance Aggregate (TEA). In 2021, the TEA will be calculated by adding your best four scaled scores plus any applicable course-specific bonuses, as detailed below, based on the following rules:

- Courses which can be used in the ATAR are listed below.
- For all universities you may accumulate scaled scores which contribute to your ATAR over **five** consecutive years, with no course counting more than once. You may use previous scaled scores back to 2017.
- No more than two mathematics scaled scores can be used in the calculation of an ATAR.
- There are unacceptable course combinations whereby scores in both courses cannot both be used (see explanation under *Unacceptable Course Combinations* below).
- A LOTE bonus of 10% of a LOTE scaled score is added to the aggregate of the best four scaled scores, subject to no LOTE scaled score earlier than 2017 being used. If more than one LOTE has been sat, only one (the best) LOTE scaled score can be used as the LOTE bonus. You receive the LOTE bonus irrespective of whether your LOTE course scaled score was counted as one of the best four.
- A Mathematics bonus of 10% of the scaled score for each of Mathematics Methods ATAR and Mathematics Specialist ATAR is added to the aggregate of the best four scaled scores. You receive the Mathematics bonus irrespective of whether your Mathematics Methods ATAR and/or Mathematics Specialist ATAR course scaled scores are counted in the best four.

- In calculating the scaled score, equal weight is given to the final school mark and the final examination mark, except where courses are taken on a non-school basis (see explanation under *Courses Studied on a Non-school Basis* below).
- Scaled scores from previous study of WACE courses are on the same scale as scaled scores obtained from study in 2021 and will be used directly in the calculation of an ATAR, if applicable.
- The maximum TEA is 430.

TEA TO ATAR

TISC will construct a table to convert your TEA to an ATAR. The table takes into account the number of students with a TEA and the number of people of Year 12 school leaving age in the state. This table is constructed annually.

PRIOR YEAR ATAR

If you have an ATAR from a previous year, you will be given the benefit of the higher of your previous ATAR and your current ATAR. If you have not previously satisfied the WACE requirement or a university's competence in English requirement, you must satisfy current requirements.

COURSES WHICH ARE USED TO FORM THE ATAR

NOTE: There are two groups of courses: ATAR and General courses. Only ATAR courses can be included in the ATAR, and students must have sat the external ATAR course examination to obtain a scaled score.

ATAR Courses

Aboriginal and Intercultural Studies ATAR	Indonesian: Background Language ATAR*
Accounting and Finance ATAR	Indonesian: First Language ATAR*
Ancient History ATAR	Indonesian: Second Language ATAR*
Animal Production Systems ATAR	Integrated Science ATAR
Applied Information Technology ATAR	Italian: Background Language ATAR*
Arabic ATAR*	Italian: Second Language ATAR*
Aviation ATAR	Japanese: Background Language ATAR*
Biology ATAR	Japanese: First Language ATAR*
Business Management and Enterprise ATAR	Japanese: Second Language ATAR*
Career and Enterprise ATAR	Korean: Background Language ATAR*
Chemistry ATAR	Literature ATAR
Children, Family and the Community ATAR	Malay: Background Speakers ATAR*
Chinese: Background Language ATAR*	Marine and Maritime Studies ATAR
Chinese: First Language ATAR*	Materials Design and Technology ATAR
Chinese: Second Language ATAR*	Mathematics Applications ATAR
Computer Science ATAR	Mathematics Methods ATAR
Dance ATAR	Mathematics Specialist ATAR
Design ATAR	Media Production and Analysis ATAR
Drama ATAR	Modern Greek ATAR*
Earth and Environmental Science ATAR	Modern History ATAR
Economics ATAR	Music ATAR
Engineering Studies ATAR	Outdoor Education ATAR
English ATAR	Philosophy and Ethics ATAR
English as an Additional Language or Dialect (EALD) ATAR	Physical Education Studies ATAR
Food Science and Technology ATAR	Physics ATAR
French: Background Language ATAR*	Plant Production Systems ATAR
French: Second Language ATAR*	Polish ATAR*
Geography ATAR	Politics and Law ATAR
German: Background Language ATAR*	Psychology ATAR
German: Second Language ATAR*	Religion and Life ATAR
Health Studies ATAR	Spanish ATAR*
Hebrew ATAR*	Vietnamese ATAR*
Human Biology ATAR	Visual Arts ATAR

NOTE:

1. Subject also to unacceptable combinations below, no more than two mathematics scaled scores can be used in the calculation of an ATAR.
2. There may be some additional interstate language courses* and examinations available in WA in 2021, which may be counted in the ATAR. Contact the School Curriculum and Standards Authority for details of availability.
3. * indicates a Language Other Than English (LOTE) course.

UNACCEPTABLE COURSE COMBINATIONS – ATAR COURSES

You cannot use the following course combinations in calculating your ATAR. It may be possible to take both courses but the result in only one may be used to calculate your ATAR.

Chemistry ATAR **with** Integrated Science ATAR

English ATAR **with** English as an Additional Language/Dialect ATAR

English as an Additional Language/Dialect ATAR **with** Literature ATAR

Mathematics Applications ATAR **with** Mathematics Methods ATAR

Mathematics Applications ATAR **with** Mathematics Specialist ATAR

Physics ATAR **with** Integrated Science ATAR

Chinese: Background Language ATAR **with** Chinese: Second Language ATAR

Chinese: Background Language ATAR **with** Chinese: First Language ATAR

Chinese: Second Language ATAR **with** Chinese: First Language ATAR

French: Background Language ATAR **with** French: Second Language ATAR

German: Background Language ATAR **with** German: Second Language ATAR

Indonesian: Background Language ATAR **with** Indonesian: First Language ATAR

Indonesian: Background Language ATAR **with** Indonesian: Second Language ATAR

Indonesian: First Language ATAR **with** Indonesian: Second Language ATAR

Indonesian: Background Language ATAR **with** Malay: Background Speakers ATAR

Indonesian: First Language ATAR **with** Malay: Background Speakers ATAR

Indonesian: Second Language ATAR **with** Malay: Background Speakers ATAR

Italian: Background Language ATAR **with** Italian: Second Language ATAR

Japanese: Background Language ATAR **with** Japanese: First Language ATAR

Japanese: Background Language ATAR **with** Japanese: Second Language ATAR

Japanese: Second Language ATAR **with** Japanese: First Language ATAR

COURSES STUDIED ON A NON-SCHOOL BASIS

You may use results in courses sat on a non-school basis in the calculation of your ATAR. Your scaled score in courses you sit on a non-school basis will be based on your course examination mark only.

The School Curriculum and Standards Authority (SCSA) administers non-school candidature. SCSA places restrictions on school leaver students sitting ATAR courses as non-school candidates. If you wish to sit ATAR courses on a non-school basis contact SCSA, Mason Bird Building, Level 2, 303 Sevenoaks Street, Cannington 6107, phone (08) 9273 6300, www.scsa.wa.edu.au for advice. SCSA has a deadline for enrolling as a non-school candidate.

You will not be able to use results from courses sat on a non-school basis to meet the WACE requirement.

SELECTION RANKS

For most courses, 2021 Year 12 students will be selected for admission to university in 2022 based on their ATAR. However, some universities assign students who are eligible for alternative entry pathways a Selection Rank that is higher than their ATAR. For these students, selection into courses at the university concerned is based on this enhanced Selection Rank.

Eligibility for the entry pathways is based on specified criteria. TISC advises students of their eligibility at the time of the Year 12 results/ATAR release in late December, via the Universities Admission Advice Letter (UAAL). The appropriate Selection Rank is automatically applied for offer rounds.

For 2022 admission, Curtin University has the StepUp to Curtin Entry Pathway, ECU has the ECU Access Pathway, Murdoch University has RISE and UWA has the Broadway Alternative Entry Pathway. For further details about any of these pathways, see the individual university section on TISC's website.

For some university courses Selection Ranks are based on additional criteria as well as the ATAR. The criteria may include bridging/special course units, interviews, auditions, folio presentations, aptitude tests, fitness requirements, etc. Detailed information is available from the individual universities.

4. PREREQUISITES

Make sure that you satisfy the prerequisites for admission to the university course of your choice. Prerequisites are courses or special requirements that must be successfully completed for entry to particular university courses.

Generally, a scaled score of 50 or more in an ATAR course is required for prerequisites purposes. See individual university course entries which follow for details.

Prerequisites may be satisfied by results from the current year or previous four years.

Murdoch University does not require applicants to have undertaken specific prerequisite courses and instead provides introductory units to enable its students to become skilled in specific areas in which they may be lacking.

COURSE PREREQUISITES

The following list outlines the prerequisite and recommended courses for entry to university courses in 2022. Additional requirements are also outlined.

CURTIN UNIVERSITY

The following list outlines the prerequisite and recommended ATAR courses for entry to Curtin courses in 2022. Additional non-Year 12 requirements are also outlined. To satisfy the prerequisite requirements, a scaled score of 50 or more in the ATAR course(s) specified is required, unless otherwise specified. Note that where 'at least Mathematics Applications ATAR' is specified as a prerequisite, Mathematics Methods ATAR also satisfies the requirement.

¹ Biology ATAR, Chemistry ATAR, Earth and Environmental Science ATAR, Human Biology ATAR, Integrated Science ATAR, Physics ATAR or Psychology ATAR satisfies this requirement.

² Accreditation by the Actuaries Institute requires applicants to have a minimum ATAR/Selection Rank of 92.00.

³ Animal Production Systems ATAR, Applied Information Technology ATAR, Aviation ATAR, Biology ATAR, Chemistry ATAR, Computer Science ATAR, Earth and Environmental Science ATAR, Engineering Studies ATAR, Human Biology ATAR, Integrated Science ATAR, Marine and Maritime Studies ATAR, Physics ATAR, Plant Production Systems ATAR or Psychology ATAR satisfies this requirement.

⁴ Animal Production Systems ATAR, Biology ATAR, Chemistry ATAR, Earth and Environmental Science ATAR, Human Biology ATAR, Integrated Science ATAR, Marine and Maritime Studies ATAR, Physics ATAR, Plant Production Systems ATAR or Psychology ATAR satisfies this requirement.

COURSE	PREREQUISITES	DESIRABLE
Actuarial Science	Mathematics Methods ATAR and ATAR/ Selection Rank of 92.00 or equivalent ²	Mathematics Specialist ATAR
Bachelor of Advanced Biomedical Science (Honours)		
Advanced Biomedical Science	Chemistry ATAR and at least Mathematics Methods ATAR	Human Biology ATAR or Biology ATAR, and Physics ATAR
Bachelor of Advanced Science (Honours)		
Agricultural Science	Mathematics Methods ATAR	Biology ATAR, Chemistry ATAR
Chemistry	Mathematics Methods ATAR Chemistry ATAR	Mathematics Specialist ATAR, Physics ATAR
Coastal and Marine Science	Mathematics Methods ATAR	One of Biology ATAR, Chemistry ATAR, Marine and Maritime Studies ATAR
Computing	Mathematics Methods ATAR	
Data Science	Mathematics Methods ATAR	Mathematics Specialist ATAR
Earth Science	Mathematics Methods ATAR	Chemistry ATAR
Environmental Science	Mathematics Methods ATAR, Chemistry ATAR	Biology ATAR
Financial Mathematics	Mathematics Specialist ATAR	
Industrial and Applied Mathematics	Mathematics Specialist ATAR	
Molecular Genetics	Mathematics Methods ATAR and Chemistry ATAR	Mathematics Specialist ATAR, Biology ATAR
Physics	Mathematics Methods, Mathematics Specialist ATAR and Physics ATAR	Chemistry ATAR
Agribusiness (Portfolio entry) (Associate Degree)	No prior study in a particular course is required	Mathematics Applications ATAR
Agribusiness	Mathematics Applications ATAR	One science ATAR course ³
Agribusiness (Portfolio entry)	Mathematics Applications ATAR	One science ATAR course ³
Applied Geology/Environmental Biology (<i>double degree</i>)	At least Mathematics Applications ATAR and one science ATAR course ³	
Applied Geology/Finance (<i>double degree</i>)	At least Mathematics Applications ATAR	
Applied Geology/Geophysics (<i>double degree</i>)	Mathematics Methods ATAR and Physics ATAR	Mathematics Specialist ATAR
Architectural Science	No prior study in a particular course is required	Mathematics Applications ATAR, Visual Art ATAR and Physics ATAR
Bachelor of Arts		
Anthropology and Sociology	No prior study in a particular course is required	
Chinese	No prior study in a particular course is required	

COURSE	PREREQUISITES	DESIRABLE
Communications	No prior study in a particular course is required	
Creative Writing	No prior study in a particular course is required	
Creative Writing (Portfolio entry)	No prior study in a particular course is required	
Digital and Social Media	No prior study in a particular course is required	
Geography (BA)	No prior study in a particular course is required	Geography ATAR
History	No prior study in a particular course is required	Modern History ATAR or Ancient History ATAR
International Relations	No prior study in a particular course is required	
Japanese	No prior study in a particular course is required	
Journalism	No prior study in a particular course is required	
Journalism (Portfolio entry)	No prior study in a particular course is required	
Literary and Cultural Studies	No prior study in a particular course is required	
Professional Writing and Publishing	No prior study in a particular course is required	
Arts/Commerce (<i>double degree</i>)	No prior study in a particular course is required	
Bachelor of Biomedical Science		
Biomedical Science	Mathematics Applications ATAR	Human Biology ATAR or Biology ATAR, and Chemistry ATAR
Bachelor of Business Administration		
Business Administration (BBA)	No prior study in a particular course is required	
Business Administration (BBA) (Portfolio entry)	No prior study in a particular course is required	
Bachelor of Commerce		
<p>Commerce</p> <ul style="list-style-type: none"> • Accounting[#] • Advertising • Business Information Systems (Professional) • Business Information Technology (Professional) • Business Law[#] • Economics • Entrepreneurship • Event Management • Finance[#] • Human Resource Management • International Business • Logistics and Supply Chain Management • Management[#] • Marketing[#] • Property Development & Valuation • Public Relations • Tourism and Hospitality • Professional Human Resources Management <p>The following majors can only be chosen as a part of select double major combinations:</p> <ul style="list-style-type: none"> • Accounting Technologies • Banking • Financial Planning • Industrial Relations • Property • Taxation[#] <p>Depending on which business area you choose, you can select a single or double major.</p> <p>[#]These majors are also offered at the Kalgoorlie campus</p>	No prior study in a particular course is required	

COURSE	PREREQUISITES	DESIRABLE
Commerce (Portfolio entry) Majors offered are same as standard entry Commerce above.	No prior study in a particular course is required	
Commerce – Online <ul style="list-style-type: none"> Accounting Business Law Finance Management Marketing Taxation (This major must be completed as part of a double major with Accounting) 	No prior study in a particular course is required	
Computer Systems and Networking	At least Mathematics Applications ATAR	Mathematics Methods ATAR or Mathematics Specialist ATAR
Computer Systems and Networking/Information Technology double degree	At least Mathematics Applications ATAR	Mathematics Methods ATAR or Mathematics Specialist ATAR
Bachelor of Computing		
Cyber Security	Mathematics Methods ATAR	
Computer Science	Mathematics Methods ATAR	
Software Engineering	At least Mathematics Applications ATAR	Mathematics Methods ATAR
Construction Management	At least Mathematics Applications ATAR	Mathematics Methods ATAR or Mathematics Specialist ATAR
Bachelor of Creative Arts		
Fine Art	No prior study in a particular course is required	
Fine Art (Portfolio entry)	No prior study in a particular course is required	
Screen Arts	No prior study in a particular course is required	
Screen Arts (Portfolio entry)	No prior study in a particular course is required	
Theatre Arts	No prior study in a particular course is required	Drama ATAR
Theatre Arts (Portfolio entry)	No prior study in a particular course is required	Drama ATAR
Bachelor of Design		
Animation and Game Design	No prior study in a particular course is required	Design ATAR
Animation and Games Design (Portfolio entry)	No prior study in a particular course is required	Design ATAR
Digital Experience and Interaction Design	No prior study in a particular course is required	Design ATAR
Digital Design (Portfolio Entry)	No prior study in a particular course is required	Design ATAR
Fashion Design	No prior study in a particular course is required	Design ATAR
Fashion Design (Portfolio entry)	No prior study in a particular course is required	Design ATAR
Graphic Design	No prior study in a particular course is required	Design ATAR
Graphic Design (Portfolio entry)	No prior study in a particular course is required	Design ATAR
Photography	No prior study in a particular course is required	Design ATAR
Photography (Portfolio entry)	No prior study in a particular course is required	Design ATAR
Bachelor of Education		
Early Childhood Education	No prior study in a particular course is required	At least Mathematics Applications ATAR
Primary Education	No prior study in a particular course is required	At least Mathematics Applications ATAR
Primary Education (Portfolio entry)	No prior study in a particular course is required	At least Mathematics Applications ATAR
Secondary Education - The Arts Education in Drama	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - The Arts Education in Media and Production	No prior study in a particular subject is required	At least Mathematics Applications ATAR

COURSE	PREREQUISITES	DESIRABLE
Analysis		
Secondary Education - The Arts Education in Visual Arts	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - English Education	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education – Health and Physical Education	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - Humanities and Social Sciences Education in Economics	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - Humanities and Social Sciences Education in Geography	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - Humanities and Social Sciences Education in History	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - Humanities & Social Sciences Education in Politics & Law	No prior study in a particular subject is required	At least Mathematics Applications ATAR
Secondary Education - Mathematics Education	Mathematics Methods ATAR	Mathematics Specialist ATAR
Secondary Education - Science Education in Biology	Mathematics Applications ATAR	One Science ATAR course ⁴
Secondary Education - Science Education in Chemistry	Mathematics Applications ATAR and Chemistry ATAR	Physics ATAR and at least Mathematics Methods ATAR
Secondary Education - Science Education in Human Biology	No prior study in a particular course is required	Chemistry ATAR, Mathematics Applications ATAR and Human Biology ATAR or Biology ATAR
Secondary Education - Science Education in Physics	Mathematics Methods ATAR and Physics ATAR	Mathematics Specialist ATAR and Chemistry ATAR
Secondary Education - Science Education in Psychology	No prior study in a particular course is required	Mathematics Applications ATAR and one Science ATAR course ⁴
Educational Studies	No prior study in a particular course is required	At least Mathematics Applications ATAR
Engineering (Honours) <ul style="list-style-type: none"> • Chemical • Civil and Construction • Electrical and Electronic • Industrial and Systems Engineering • Mechanical • Mechatronic • Metallurgical • Mining • Petroleum 	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Engineering/Commerce (<i>double degree</i>) <ul style="list-style-type: none"> • Chemical • Civil and Construction • Mechanical • Metallurgical • Mining 	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Bachelor of Engineering/Bachelor of Science (<i>double degree</i>)		
Chemical Engineering/Chemistry (<i>double degree</i>)	Mathematics Methods ATAR and Chemistry ATAR, and at least one of the following courses: Physics ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Chemical Engineering/Extractive Metallurgy (<i>double degree</i>)	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Electrical and Electronic Engineering/Computer Science (<i>double degree</i>)	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR

COURSE	PREREQUISITES	DESIRABLE
Electrical and Electronic Engineering/Data Science (<i>double degree</i>)	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Electrical and Electronic Engineering/Physics (<i>double degree</i>)	Mathematics Methods ATAR and Physics ATAR and Chemistry ATAR	Mathematics Specialist ATAR and Engineering Studies ATAR
Mechatronic Engineering/Computer Science (<i>double degree</i>)	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Civil and Construction Engineering/Mining (<i>double degree</i>)	Mathematics Methods ATAR and at least one of the following courses: Physics ATAR, Chemistry ATAR or Engineering Studies ATAR	Mathematics Specialist ATAR
Exercise and Sport Science	No prior study in a particular course is required	Physical Education Studies ATAR, Mathematics Applications ATAR and Human Biology ATAR
Health Promotion	No prior study in a particular course is required	One Science ATAR course ¹
Health Promotion/Health and Safety (<i>double degree</i>)	No prior study in a particular course is required	One Science ATAR course ¹
Health Sciences	No prior study in a particular course is required	One Science ATAR course ¹
Health Sciences (Portfolio Entry)	No prior study in a particular course is required. For detailed information about this entry pathway, please visit Portfolio page.	One Science ATAR course ¹
Health, Safety and Environment	No prior study in a particular course is required	One Science ATAR course ¹
Information Technology	At least Mathematics Applications ATAR	Mathematics Methods ATAR
Interior Architecture	No prior study in a particular course is required	
Interior Architecture (Portfolio Entry)	No prior study in a particular course is required	
Laboratory Medicine	No prior study in a particular course is required	Mathematics Applications ATAR, Chemistry ATAR, and Human Biology ATAR or Biology ATAR
Law	No prior study in a particular course is required	
Law/Arts (<i>double degree</i>)	No prior study in a particular course is required	
Law/Commerce (<i>double degree</i>)	No prior study in a particular course is required	
Law/Psychology (<i>LLB/BSc</i>) (<i>double degree</i>)	No prior study in a particular course is required	Mathematics Applications ATAR
Bachelor of Science (Medical Radiation Science)		
Medical Imaging (BSc)	Physics ATAR and Mathematics Methods ATAR	Mathematics Specialist ATAR
Radiation Therapy (BSc)	Physics ATAR and Mathematics Methods ATAR	Mathematics Specialist ATAR
Medicine/Surgery	Chemistry ATAR To be eligible to participate in the selection process all applicants are required to undertake the University Clinical Aptitude Test ANZ (UCAT). Applicants will be selected for interview based on their UCAT ANZ score and predicted ATAR.	One of the following courses: Mathematics Applications ATAR, Mathematics Methods ATAR, Mathematics Specialist ATAR
Nursing	No prior study in a particular course is required	Human Biology ATAR and Integrated Science ATAR
Nutrition and Food Science	Chemistry ATAR	At least Mathematics Applications ATAR
Nutrition/Health Promotion (<i>double degree</i>)	Chemistry ATAR	At least Mathematics Applications ATAR
Occupational Therapy (Honours)	Physical Education Studies ATAR or one Science ATAR course ¹	Human Biology ATAR, Physics ATAR, at least Mathematics Applications ATAR

COURSE	PREREQUISITES	DESIRABLE
Optometry (<i>BSc(Vision Science)/Master of Optometry</i>) (<i>double degree</i>)	No prior study in a particular course is required	At least Mathematics Applications ATAR, Physics ATAR, Chemistry ATAR, Human Biology ATAR
Oral Health Therapy	No prior study in a particular course is required	Human Biology ATAR or Biology ATAR
Paramedicine	In order to enrol in this course students need to have received a conditional letter of employment from St. John Western Australia as a Student Ambulance Officer. No prior study in a particular course is required. Applicants are required to meet University academic and English language entry standards. To be successful in the St. John Western Australia recruitment process you will need to be a permanent resident or citizen of Australia with permanent on-going working rights, meet academic, personal and physical requirements and have a full unrestricted 'C' or 'CA' class driver's license (with a good driving history with no more than six demerit points at time of application or serious convictions within the last four years).	Integrated Science ATAR and Human Biology ATAR
Pharmacy (Hons)	Chemistry ATAR and Mathematics Applications ATAR	Human Biology ATAR or Biology ATAR
Physiotherapy	One Science ATAR course ¹	At least Mathematics Applications ATAR, Physical Education Studies ATAR, and Health Studies ATAR
Psychology (<i>BPsych</i>)	No prior study in a particular course is required	At least Mathematics Applications ATAR and Human Biology ATAR or Biology ATAR or Psychology ATAR
Psychology and Human Resource Management (<i>BSc(Psych/HRM)</i>)	No prior study in a particular course is required	At least Mathematics Applications ATAR and Human Biology ATAR or Biology ATAR or Psychology ATAR
Psychology and Human Resource Management and Industrial Relations (<i>BSc(Psych/HRM/IR)</i>)	No prior study in a particular course is required	At least Mathematics Applications ATAR and Human Biology ATAR or Biology ATAR or Psychology ATAR
Psychology/Marketing (<i>BSc/BCom</i>)(<i>double degree</i>)	No prior study in a particular course is required	Mathematics Applications ATAR and Human Biology ATAR or Biology ATAR or Psychology ATAR
Bachelor of Science		
Agriculture Science	Mathematics Applications ATAR	Chemistry ATAR
Applied Geology	At least Mathematics Applications ATAR	
Applied Geology (Portfolio Entry)	At least Mathematics Applications ATAR	
Biochemistry	At least Mathematics Applications ATAR and Chemistry ATAR	Mathematics Methods ATAR, Biology ATAR and Human Biology ATAR
Chemistry	At least Mathematics Applications ATAR and Chemistry ATAR	Mathematics Methods ATAR, Mathematics Specialist ATAR, Physics ATAR or Biology ATAR
Coastal and Marine Science	Mathematics Applications ATAR	One Science ATAR course ³
Data Science	Mathematics Methods ATAR	Mathematics Specialist ATAR
Environmental Science	Mathematics Applications ATAR	Chemistry ATAR or Biology ATAR
Environmental Science (Portfolio Entry)	Mathematics Applications ATAR	Chemistry ATAR or Biology ATAR
Extractive Metallurgy	At least Mathematics Applications ATAR and Chemistry ATAR or Physics ATAR	
Financial Mathematics	Mathematics Methods ATAR	Mathematics Specialist ATAR
Food Science	Mathematics Applications ATAR and Chemistry ATAR	
Geophysics	Mathematics Methods ATAR and Physics ATAR	Mathematics Specialist ATAR

COURSE	PREREQUISITES	DESIRABLE
Industrial and Applied Mathematics	Mathematics Methods ATAR	Mathematics Specialist ATAR
Mining	At least Mathematics Applications ATAR and Chemistry ATAR or Physics ATAR	
Multidisciplinary Science	At least Mathematics Applications ATAR	Mathematics Methods ATAR and one Science ATAR course ³
Multidisciplinary Science (Portfolio Entry)	At least Mathematics Applications ATAR	Mathematics Methods ATAR and one Science ATAR course ³
Physics	Mathematics Methods ATAR and Physics ATAR	Chemistry ATAR and Mathematics Specialist ATAR
Bachelor of Science/Bachelor of Arts (double degree)		
Chemistry/Arts (<i>double degree</i>)	Mathematics Applications ATAR and Chemistry ATAR	Mathematics Methods ATAR and Physics ATAR
Coastal and Marine Science/Arts (<i>double degree</i>)	Mathematics Applications ATAR and one Science ATAR course ³	
Data Science/Arts (<i>double degree</i>)	Mathematics Methods ATAR	
Environmental Biology/Arts (<i>double degree</i>)	Mathematics Applications ATAR and one Science ATAR course ³	
Mathematics/Arts (<i>double degree</i>)	Mathematics Methods ATAR	Mathematics Specialist ATAR
Physics/Arts (<i>double degree</i>)	Mathematics Methods ATAR and Physics ATAR	Mathematics Specialist ATAR and Chemistry ATAR
Bachelor of Science/Bachelor of Commerce (double degree)		
Chemistry/Commerce (<i>double degree</i>)	Mathematics Applications ATAR and Chemistry ATAR	Mathematics Methods ATAR and Physics ATAR
Coastal and Marine Science/Commerce (<i>double degree</i>)	Mathematics Applications ATAR and one Science ATAR course ³	
Data Science/Commerce (<i>double degree</i>)	Mathematics Methods ATAR	
Environmental Biology/Commerce (<i>double degree</i>)	Mathematics Applications ATAR and one Science ATAR course ³	
Mathematics/Commerce (<i>double degree</i>)	Mathematics Methods ATAR	Mathematics Specialist ATAR
Physics/Commerce (<i>double degree</i>)	Mathematics Methods ATAR and Physics ATAR	Mathematics Specialist ATAR and Chemistry ATAR
Social Work	No prior study in a particular course is required	
Speech Pathology	One Science ATAR course ¹	At least Mathematics Applications ATAR
Surveying (Honours)	At least Mathematics Applications ATAR	Mathematics Methods ATAR
UniReady Enabling Program	No prior study in a particular course is required. Applicants must be over the compulsory school age as defined by the WA School Education Act 1999 in the year of commencement of the course.	
Urban & Regional Planning	No prior study in a particular course is required	

EDITH COWAN UNIVERSITY

The following are the prerequisites which apply for entry to ECU courses (or specific major(s) within a course). To satisfy the prerequisite requirements, a minimum scaled score of 50 or more in the ATAR course is required. Additional non-Year 12 requirements are also outlined.

COURSE	PREREQUISITES	DESIRABLE
Arts	No prior study in a particular course is required	
Arts / Commerce (double degree)	No prior study in a particular course is required	
Arts / Media and Communications (double degree)	No prior study in a particular course is required	
Arts Management	Interview and separate application to ECU	
Arts / Science (double degree) <i>Data Science</i> <i>Mathematics</i> <i>Physics</i>	A final school letter grade of C or higher in Mathematics Methods ATAR (Year 11) or equivalent Mathematics Methods ATAR or equivalent Physics ATAR and Mathematics Methods ATAR or equivalents	
Aviation	No prior study in a particular course is required	
Biological Sciences	No prior study in a particular course is required	
Biomedical Science <i>Data Science</i>	A final school letter grade of C or higher in Mathematics Methods ATAR (Year 11) or equivalent	
Commerce	No prior study in a particular course is required	
Computer Science	No prior study in a particular course is required	
Conservation and Wildlife Biology	No prior study in a particular course is required	
Counselling	No prior study in a particular course is required	
Counter Terrorism, Security and Intelligence	No prior study in a particular course is required	
Criminology and Justice (Associate Degree)	No prior study in a particular course is required	
Criminology and Justice (Bachelor Degree)	No prior study in a particular course is required	
Cyber Security	No prior study in a particular course is required	
Design	No prior study in a particular course is required	
Education (Early Childhood Studies)	Applicants for pre-service teacher education courses must satisfy non-academic criteria. Applicants' non-academic capabilities will be assessed based on completion of a Non-Academic Requirements for Teacher Entry (NARTE) online questionnaire.	
Education (Primary)	Applicants for pre-service teacher education courses must satisfy non-academic criteria. Applicants' non-academic capabilities will be assessed based on completion of a Non-Academic Requirements for Teacher Entry (NARTE) online questionnaire.	
Education (Secondary)	Applicants for pre-service teacher education courses must satisfy non-academic criteria. Applicants' non-academic capabilities will be assessed based on completion of a Non-Academic Requirements for Teacher Entry (NARTE) online questionnaire. Applicants must also satisfy the prerequisites for specific major(s) as noted below:	
<i>Biological Science Education</i>	Biology ATAR, or Chemistry ATAR, or Earth and Environmental Science ATAR, or Human Biology ATAR, or Integrated Science ATAR or Physics ATAR or equivalents	
<i>Chemistry Education</i>	Chemistry ATAR	
<i>Design and Technology Education</i>	No prior study in a particular course is required	
<i>Drama Education</i>	No prior study in a particular course is required	
<i>English Education</i>	No prior study in a particular course is required	
<i>Health and Physical Education</i>	No prior study in a particular course is required	
<i>Home Economics Education</i>	No prior study in a particular course is required	
<i>Humanities and Social Science Education</i>	No prior study in a particular course is required	
<i>Mathematics Education</i>	Mathematics Methods ATAR or equivalent	Mathematics Specialist ATAR or equivalent
<i>Music Education</i>	Audition and separate application to ECU	Australian Music Examinations Board (AMEB) Grade V level of performance or equivalent

COURSE	PREREQUISITES	DESIRABLE
<i>Physics Education</i>	Physics ATAR	
<i>Visual Arts Education</i>	No prior study in a particular course is required	
Engineering Honours	For all Engineering Degrees listed: Mathematics Methods ATAR and Physics ATAR or Engineering Studies ATAR or equivalents	Mathematics Specialist ATAR or equivalents
Single Degrees		
Civil		
Civil and Environmental		
Computer Systems		
Electrical Power		
Electronics & Communications		
Instrumentation Control & Automation		
Marine and Offshore Systems		
Mechanical		
Mechatronics		
Naval Architecture		
Ocean Engineering		
Petroleum Engineering		
Double Degrees		
Engineering / Commerce		
Engineering (Computer Systems) / Computer Science		
Engineering (Mechatronics) Honours / Technology (Motorsports)		
Engineering / Laws		
Engineering / Science		
Engineering (Chemical) Honours	Mathematics Methods ATAR and Chemistry ATAR and Physics ATAR or Engineering Studies ATAR or equivalents	Mathematics Specialist ATAR or equivalent
Engineering Science	Mathematics Methods ATAR and Physics ATAR or Engineering Studies ATAR or equivalents	Mathematics Specialist ATAR or equivalent
Environmental Management	No prior study in a particular course is required	
Exercise and Sports Science	No prior study in a particular course is required	
Exercise Science and Rehabilitation	No prior study in a particular course is required	
Health Science	No prior study in a particular course is required	
Hospitality and Tourism Management	No prior study in a particular course is required	
Information Technology	No prior study in a particular course is required	
Laws	No prior study in a particular course is required	
Laws / Commerce (double degree)	No prior study in a particular course is required	
Laws / Criminology and Justice (double degree)	No prior study in a particular course is required	
Laws / Psychology (double degree)	No prior study in a particular course is required	
Marine and Freshwater Biology	No prior study in a particular course is required	
Marketing, Advertising and Public Relations	No prior study in a particular course is required	
Media and Communications	No prior study in a particular course is required	
Medical Science	No prior study in a particular course is required	
Music	All Music majors: Audition and separate application to ECU	
Nursing - Registered Nursing	No prior study in a particular course is required	Science related course at ATAR or General level
Nursing / Midwifery	No prior study in a particular course is required	
Occupational Therapy	No prior study in a particular course is required	
Paramedical Science	No prior study in a particular course is required	
Performance Making	Audition and separate application to ECU	
Psychology	No prior study in a particular course is required	
Psychology and Counselling	No prior study in a particular course is required	
Psychology, Criminology and Justice	No prior study in a particular course is required	

COURSE	PREREQUISITES	DESIRABLE
Science <i>Data Science</i> <i>Mathematics</i> <i>Physics</i>	Applicants must satisfy the prerequisites for specific major(s) as noted below: A final school letter grade of C or higher in Mathematics Methods ATAR (Year 11) or equivalent Mathematics Methods ATAR or Mathematics Specialist ATAR or equivalents Physics ATAR and Mathematics Methods ATAR or equivalents	
Science / Commerce (double degree) <i>Data Science</i> <i>Mathematics</i> <i>Physics</i>	Applicants must satisfy the prerequisites for specific major(s) as noted below: A final school letter grade of C or higher in Mathematics Methods ATAR (Year 11) or equivalent Mathematics Methods ATAR or Mathematics Specialist ATAR or equivalents Physics ATAR and Mathematics Methods ATAR or equivalents	
Science (Exercise & Sports Science) / Commerce (Sport Business) (double degree)	No prior study in a particular course is required	
Security	No prior study in a particular course is required	
Social Science	No prior study in a particular course is required	
Social Work	No prior study in a particular course is required	
Speech Pathology	No prior study in a particular course is required	
Sport, Recreation and Event Management (Associate Degree)	No prior study in a particular course is required	
Sport, Recreation and Event Management (Bachelor Degree)	No prior study in a particular course is required	
Sustainability	No prior study in a particular course is required	
Technology (Aeronautical)		Mathematics Methods ATAR and Physics ATAR or Engineering Studies ATAR or equivalents
Technology (Electronic and Computer Systems)		Mathematics Methods ATAR or equivalent
Technology (Engineering)		Mathematics Methods ATAR or equivalent
Technology (Motorsports)		Mathematics Methods ATAR and Physics ATAR or Engineering Studies ATAR or equivalents
University Preparation Course	No prior study in a particular course is required	
University Preparation Course (Education)	No prior study in a particular course is required	
Youth Work	No prior study in a particular course is required	

MURDOCH UNIVERSITY

While many universities have prerequisite Year 12 courses for most of their courses, Murdoch University has a flexible degree structure that allows us to avoid this particular entrance requirement. Murdoch understands that students do not always make up their minds about the career they would like until much later than Year 10 and so Murdoch has 'make-up' units available in Chemistry, Mathematics and Physics for students who have not studied, or who have not performed well in, these courses at Year 12 level. We do list some recommended ATAR courses because a strong mathematical or chemistry background is an advantage in any science-based university course. However, they are purely a recommendation and do not affect entry. Note that for entry to all Murdoch's courses you must fulfil the University's requirements on English competence.

COURSE	RECOMMENDED
Bachelor of Arts	
Community Development	No specific courses
English and Creative Writing	No specific courses
Global Politics and Policy	No specific courses
History	No specific courses
International Aid and Development	No specific courses
Japanese	No specific courses
Philosophy	No specific courses
Psychology	No specific courses
Sociology	No specific courses
Sustainable Development	No specific courses
Theatre and Drama	No specific courses
Tourism and Events	No specific courses
Bachelor of Business	
Accounting	Mathematics Applications ATAR
Banking	Mathematics Applications ATAR
Business Law	No specific courses
Finance	Mathematics Applications ATAR
Hospitality and Tourism Management	Mathematics Applications ATAR
Human Resource Management	No specific courses
International Business	No specific courses
Management	No specific courses
Marketing	No specific courses
Bachelor of Commerce	
Accounting	Mathematics Applications ATAR
Banking	Mathematics Applications ATAR
Business Law	No specific courses
Finance	Mathematics Applications ATAR
Global Business and Politics	No specific courses
Hospitality and Tourism Management	Mathematics Applications ATAR
Human Resource Management	No specific courses
International Business	No specific courses
Management	No specific courses
Marketing	No specific courses
Commerce/Entrepreneurship and Innovation (combined degree)	No specific courses
Commerce/Agricultural Science (combined degree)	Mathematics Applications, Chemistry ATAR
Bachelor of Communication	
Global Media and Communication	No specific courses
Journalism	No specific courses
Strategic Communication	No specific courses
Bachelor of Creative Media	
Games Art and Design	Visual Arts ATAR
Graphic Design	Visual Arts ATAR
Photography	No specific courses
Screen Production	No specific courses
Sound	No specific courses
Creative Media/Communication (combined degree)	No specific courses
Bachelor of Criminology	
Crime Science	No specific courses

COURSE	RECOMMENDED
Criminal Behaviour	No specific courses
Legal Studies (pathway to ATAR 90 Law courses)	No specific courses
White Collar and Corporate Crime	No specific courses
Criminology/Arts (Psychology) (combined degree)	No specific courses
Criminology/Communication (combined degree)	No specific courses
Criminology/Global Security (combined degree)	No specific courses
Criminology/Science (combined degree)	No specific courses
Bachelor of Education	
Early Childhood and Primary Teaching	No specific courses
Primary Teaching	No specific courses
Primary, 1-10 Health and Physical Education	No specific courses
Bachelor of Education in Secondary Teaching	
Advanced Mathematics	Mathematics Methods ATAR, Mathematics Specialist ATAR
Biology and Environmental Science	Biology ATAR, Mathematics Applications ATAR, Chemistry ATAR
Biology and Human Biology	Human Biology ATAR, Biology ATAR
Chemistry	Chemistry ATAR
Earth and Environmental Science	Mathematics Applications ATAR, Chemistry ATAR
English	English ATAR
Geography and Economics (HASS)	Geography ATAR, Economics ATAR
Health & Physical Education	Physical Education Studies ATAR, Human Biology ATAR
History (HASS)	History ATAR
Mathematics	Mathematics Methods ATAR, Mathematics Specialist ATAR
Physics	Physics ATAR
Politics (HASS)	Politics ATAR
Engineering	
Bachelor of Engineering (Hons) <ul style="list-style-type: none"> Electrical Power Engineering Industrial Computer Systems Engineering Instrumentation and Control Engineering Renewable Energy Engineering 	Mathematics Methods ATAR, Mathematics Specialist ATAR, Physics ATAR
Engineering/Management (combined degree)	Mathematics Methods ATAR, Mathematics Specialist ATAR, Physics ATAR
Engineering/Entrepreneurship and Innovation (combined degree)	Mathematics Methods ATAR, Mathematics Specialist ATAR, Physics ATAR
Engineering Technology (pathway to Engineering courses)	Mathematics Methods ATAR ⁴ , Mathematics Specialist ATAR, Physics ATAR
Bachelor of Global Security	No specific courses
Bachelor of Information Technology and Business	Mathematics Applications ATAR
Bachelor of Laws	
Law	No specific courses
Law/Arts (combined degree)	No specific courses
Law/Arts (Psychology) (combined degree)	No specific courses
Law/Business (combined degree)	No specific courses
Law/Commerce (combined degree)	No specific courses
Law/Communication (combined degree)	No specific courses
Law/Criminology (combined degree)	No specific courses
Law/Global Security (combined degree)	No specific courses
Law/Science (combined degree)	No specific courses
Law/Science (Psychology) (combined degree)	No specific courses
Sciences	
Agricultural Sciences (BSc)	
Animal Health	Mathematics Methods ATAR, Chemistry ATAR, Biology ATAR
Animal Science	Mathematics Methods ATAR, Chemistry ATAR, Biology ATAR
Crop and Pasture Science	Chemistry ATAR, Mathematics Applications ATAR
Veterinary Science	
Veterinary Science BSc (<i>Veterinary Biology</i>) which progresses into an integrated DVM (<i>Doctor of Veterinary Medicine</i>)	Mathematics Methods ATAR, Chemistry ATAR, Physics ATAR, Biology ATAR

COURSE	RECOMMENDED
Environmental and Conservation Science (BSc)	
Biological Sciences	Mathematics Applications ATAR, Chemistry ATAR
Conservation and Wildlife Biology	Mathematics Applications ATAR, Chemistry ATAR
Environmental Management and Sustainability	Mathematics Applications ATAR, Chemistry ATAR
Environmental Science	Mathematics Applications ATAR, Chemistry ATAR
Marine Biology	Mathematics Applications ATAR, Chemistry ATAR
Marine Science	Mathematics Applications ATAR, Chemistry ATAR
Health	
Chiropractic Science & Clinical Chiropractic (BSc+BClinChiro)	Mathematics Applications ATAR, Chemistry ATAR, Physics ATAR, Human Biology ATAR, Biology ATAR
Food Science and Nutrition	Mathematics Application ATAR, Chemistry ATAR, Biology ATAR
Nursing	Mathematics Applications ATAR, Chemistry ATAR, Human Biology ATAR
Psychology (BSc)	Mathematics Methods ATAR
Sport and Exercise Science	Physical Education Studies ATAR, Human Biology ATAR
Sport and Exercise Science/Graduate Diploma Clinical Exercise Physiology	Physical Education Studies ATAR, Human Biology ATAR
Sport and Exercise Science/Science (Psychology) (combined degree)	Mathematics Methods ATAR, Human Biology ATAR, Physical Education studies ATAR.
Medical, Molecular and Forensic Sciences	
Biomedical Science	Mathematics Applications ATAR, Chemistry ATAR, Human Biology ATAR, Biology ATAR
Clinical Laboratory Science	Chemistry ATAR, Mathematics Applications ATAR, Biology or Human Biology ATAR
Forensic Biology and Toxicology	Mathematics Applications ATAR, Chemistry ATAR
Genetics and Molecular Biology	Mathematics Applications ATAR, Chemistry ATAR, Biology ATAR or Human Biology ATAR
Science/Laboratory Medicine (combined degree)	Chemistry ATAR, Mathematics Applications ATAR, Biology or Human Biology ATAR
Physical Sciences	
Chemistry	Mathematics Methods ATAR, Chemistry ATAR, Physics ATAR
Physics and Nanotechnology	Mathematics Specialist ATAR, Physics ATAR
Technology	
Artificial Intelligence and Automation	Mathematics Applications ATAR
Business Information Systems	Mathematics Applications ATAR
Computer Science	Mathematics Applications ATAR
Cyber Security and Forensics	Mathematics Applications ATAR
Games Software Design and Production	Mathematics Applications ATAR
Games Technology	Mathematics Applications ATAR
Internetworking and Network Security	Mathematics Applications ATAR
Mobile and Web Application Development	No specific courses
Enabling course	
OnTrack Enabling course	Completion of Year 11 and 12 with a B or higher in English General or a D or higher in an English ATAR course or Certificate III or higher. Applicants must be over the compulsory school age as defined by the WA School Education Act 1999 in the year of commencement of the course.
OnTrack Sprint (4 week Pre-university program)	ATAR of 60.00-69.95 with a scaled score of 50 in ATAR English OR an ATAR of 70 or higher with a scaled score of 45-50 in ATAR English.

THE UNIVERSITY OF WESTERN AUSTRALIA

The following list outlines the prerequisite and recommended ATAR courses for entry to UWA courses in 2022. To satisfy the prerequisite requirements, a scaled score of 50 or more in the ATAR course is required.

If prerequisite courses have not been satisfied but other entry requirements have been met, an offer into the course will be given and additional units will be required as part of your degree.

Recommended courses provide valuable background that will assist you during your studies but do not affect selection into the course.

The UWA course model allows students to take two majors, the first major being the degree specific major. Nearly any other major in any degree program can be studied as a second major alongside the degree specific major.

Undergraduate degrees

Bachelor of Advanced Computer Science (Honours)

Major	Prerequisites	Recommended Courses
Artificial Intelligence Data Science International Cybersecurity	At least Mathematics Methods ATAR.	

Bachelor of Arts

Major	Prerequisites	Recommended Courses
Anthropology and Sociology Archaeology Asian Studies Chinese Studies Classics and Ancient History Communication and Media Studies Criminology English and Literary Studies Fine Arts French Studies Gender Studies German Studies History History of Art Human Geography and Planning Indigenous Knowledge, History and Heritage Indonesian Studies Italian Studies Japanese Studies Korean Studies Law and Society Linguistics Philosophy Political Science and International Relations Psychology Psychology in Society Spanish Studies Work and Employment Relations	No previous study in a particular course is required	

Bachelor of Automation and Robotics

Major	Prerequisites	Recommended Courses
All majors	Mathematics Methods ATAR, Mathematics Specialist ATAR, Physics ATAR and Chemistry ATAR.	

Bachelor of Biomedical Science

Major	Prerequisites	Recommended Courses
Aboriginal Health and Wellbeing	Mathematics Applications ATAR OR a mathematics unit taken in the first year.	Mathematics Methods ATAR
Anatomy and Human Biology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	

Biochemistry and Molecular Biology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units; and Chemistry ATAR or a chemistry unit taken in the first year.	Biology ATAR
Exercise and Health	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Genetics	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR
Humanities in Health and Medicine	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Medical Sciences	Mathematics Applications ATAR with a mathematics unit taken in the first year; and Chemistry ATAR or a Chemistry unit taken in the first year	
Microbiology and Immunology	Chemistry ATAR or a Chemistry unit taken in the first year	Mathematics Applications ATAR and Biology ATAR or Human Biology ATAR
Neuroscience	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR and Physics ATAR
Pathology and Laboratory Medicine	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR and Chemistry ATAR
Pharmacology	Mathematics Applications ATAR OR a mathematics unit taken in the first year.	Mathematics Methods ATAR and Chemistry ATAR
Physiology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR and Physics ATAR
Population Health	Mathematics Applications ATAR OR a mathematics unit taken in the first year.	Mathematics Methods ATAR
Science Communication	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR

Bachelor of Business

Major	Prerequisites	Recommended Courses
Business Management Global Business Enterprise and Innovation	No previous study in a particular course is required	

Bachelor of Commerce ^{1,2}

Major	Prerequisites	Recommended Courses
Accounting Business Law Economics Finance Human Resource Management Management Marketing Professional Economics	Mathematics Applications ATAR plus a mathematics unit in your first year	Mathematics Methods ATAR

Bachelor of Environmental Design

Major	Prerequisites	Recommended Courses
Architecture Environmental Geography and Planning Landscape Architecture	No previous study in a particular course is required	

Bachelor of Music

Major	Prerequisites	Recommended Courses
Music Specialist Studies	Perform a successful audition (required standard AMEB Grade 7 or above) and/or submit a portfolio of compositions. Applicants should also possess a strong background in music theory.	
Music Studies	Perform a successful audition (required standard AMEB Grade 5 or above) and/or submit a portfolio of compositions. Applicants should also possess a background in music theory.	

Bachelor of Philosophy (Honours)

Major	Prerequisites	Recommended Courses
Any of the majors listed in this table may be studied within the BPhil(Hons)	ATAR (or equivalent) of at least 98.00, refer to the individual majors section for course information. (Additional selection criteria may apply.)	

Bachelor of Philosophy, Politics and Economics

Major	Prerequisites	Recommended Courses
Philosophy, Politics and Economics	No previous study in a particular course is required	

Bachelor of Science

Major	Prerequisites	Recommended Courses
Agricultural Science	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units; and Chemistry ATAR or an additional chemistry unit taken in the first year.	
Anatomy and Human Biology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	
Biochemistry and Molecular Biology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units; and Chemistry ATAR or a Chemistry unit taken in the first year.	Biology ATAR
Botany	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR
Chemistry	Chemistry ATAR or an additional Chemistry unit taken in the first year, Mathematics Methods ATAR OR Mathematics Applications ATAR with additional mathematics units taken in the first year	Mathematics Specialist ATAR, Mathematics Methods ATAR and Chemistry ATAR
Computer Science	Mathematics Methods ATAR OR Mathematics Applications ATAR with additional mathematics units taken in the first year	Mathematics Methods ATAR
Conservation Biology	Mathematics Methods ATAR OR Mathematics Applications with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR

Data Science	Mathematics Applications ATAR with a mathematics unit taken in the first year	Mathematics Methods ATAR
Engineering Science	Mathematics Specialist ATAR, Mathematics Methods ATAR, Chemistry ATAR and Physics ATAR OR Mathematics Methods ATAR with additional specified units taken in the first year depending on the number of missing prerequisite courses	Mathematics Specialist ATAR, Mathematics Methods ATAR, Chemistry ATAR and Physics ATAR
Environmental Science	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units; and Chemistry ATAR or an additional chemistry unit taken in the first year	
Exercise and Health	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Genetics	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR
Geographical Sciences	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	
Geology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	
Marine Science	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year	Chemistry ATAR
Mathematics and Statistics	Mathematics Specialist ATAR and Mathematics Methods ATAR OR Mathematics Methods ATAR with an additional mathematics unit taken in the first year	Mathematics Specialist ATAR and Mathematics Methods ATAR
Microbiology and Immunology	Chemistry ATAR or a chemistry unit taken in the first year	Mathematics Applications ATAR and Biology ATAR or Human Biology ATAR
Natural Resource Management	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	
Neuroscience	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR and Physics ATAR
Physics	Mathematics Specialist ATAR, Mathematics Methods ATAR and Physics ATAR OR Mathematics Methods ATAR and Physics ATAR, with an additional mathematics unit taken in the first year.	Mathematics Specialist ATAR Mathematics Methods ATAR and Physics ATAR
Physiology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR and Physics ATAR
Psychological Science	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Psychology (Double Major)	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR

Science Communication	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Sport Science	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Sport Science, Exercise and Health (Double Major)	Mathematics Applications ATAR OR a mathematics unit taken in the first year	Mathematics Methods ATAR
Zoology	Mathematics Methods ATAR OR Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR Mathematics will take two first year mathematics units.	Chemistry ATAR

Professional and Direct Pathways

A number of Direct Pathway Places are available, providing entry into the relevant undergraduate course and a reserved place in the postgraduate course on the basis of Year 12 results. Check <https://www.uwa.edu.au/study/courses-and-careers/professional-pathways> for details.

Progression to the postgraduate course generally depends on achieving a certain Grade Point Average across the completed undergraduate degree. Refer to UWA's website for further information.

NOTES:

1. If you do not have a scaled score of 50 or higher in Mathematics Methods ATAR, you will need to successfully complete mathematics units as part of your degree.
2. Prerequisite courses may not apply to Commerce majors if being completed as a second major. Students without Mathematics may have a restricted choice of units in the Finance and Economics majors.

ADDRESSES

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CURTIN PERTH CAMPUS
Kent Street
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PERTH WA 6845
Telephone: (08) 9266 7805
Web: www.curtin.edu.au
Email: admissions@curtin.edu.au

KALGOORLIE CAMPUS
For mining courses:
Western Australian School of Mines
(WASM)
Egan Street
KALGOORLIE WA 6430
Telephone: 1800 688 377
Web: www.wasm.curtin.edu.au

COUNTRY CENTRES
Limited assistance will be available at
country centres listed below, please
contact 1800 469 164.
Albany
Kalgoorlie

EDITH COWAN UNIVERSITY

270 Joondalup Drive
JOONDALUP WA 6027
Telephone: 134 328
Overseas: (61 8) 6304 0000
Email: futurestudy@ecu.edu.au
Web: www.ecu.getready.com.au/
Including Joondalup, Mt Lawley, South
West Campus (Bunbury) and Margaret
River Education Centre

MURDOCH UNIVERSITY

Perth Campus
THE STUDENT CENTRE
South Street
MURDOCH WA 6150
Telephone: 1300 MURDOCH (1300 687
3624)
Online enquiries: ask.murdoch.edu.au
Web: www.murdoch.edu.au

Mandurah Campus (Peel)
THE STUDENT CENTRE
Education Drive
MANDURAH WA 6210
Telephone: 1300 MURDOCH (1300 687
3624)
Online enquiries: ask.murdoch.edu.au
Web: www.murdoch.edu.au

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THE STUDENT CENTRE
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ROCKINGHAM WA 6168
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