

YEAR 10 GUIDE TO DEGREES AND SUBJECT CHOICES



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA



WHERE TO START?

Planning your future is exciting, but it can also be kind of daunting. Our advice is to start early and enjoy it!

Your high school years are a perfect time to start learning about what's out there and begin weighing up your options. Think of the University of Newcastle as your partner on the journey. We'll be here every step of the way, ready to offer help or advice so you can make the decision that's right for you. Here are some helpful tips to start your planning:

Narrow your focus

Use the study area table to narrow down degree options based on what you're interested in at school, or where you want to end up.

Bounce ideas off others

Your Careers Adviser is a great resource. They can help you map out your options and inform study decisions. It's also a good idea to talk things through with friends and family.

Visit our website

Visit newcastle.edu.au/study to learn more about university life and the degrees that interest you.

Use the UAC guide

Get your hands on a UAC guide. It's got heaps of valuable information about selecting courses and the path to university.

Think ahead

Use the back page of this booklet to help you plan things out and stay organised throughout the process.

Come and chat to us

Use every opportunity to speak to our team about all things university related. You can come along to our career expos, campus tours and key events like Schools Visit Days and Open Days.

Visit newcastle.edu.au/study to learn more.



WHY UNI?

There are lots of reasons why university is a great next step. Studying at university is a chance to pursue a career in an area that excites you. Gain knowledge, real-world experience and make life-long friends.

A university degree not only sets you up for a successful career, it teaches you how to tackle problems from different angles and think outside the box. It prepares you for a future full of possibilities.

More career opportunities and higher salaries

A university degree means you can pursue a career in a specialised field of your choice. These positions often have higher salaries and more opportunity for career progression.

Pursue your passion

Studying at university means you can tailor your studies around things you're passionate about. Many degrees allow you to choose a major, meaning you specialise in a particular area of interest as part of your degree.

Go global

Our degrees are focused on real-world, global experience. You might choose to study part of your degree overseas – and you'll graduate qualified to work all around the world.

It's flexible and fun

University is not like school. You take control of your learning and can design your own timetable. It's also a place to make new friends and have fun at social events and activities.

Check out [#UniNewcastle](https://twitter.com/UniNewcastle) to see what life at our uni looks like.

CAREER IDEAS

	YOU LIKE	YOU COULD STUDY	YOU COULD BE
	Business Studies, Economics, Maths	ACCOUNTING AND FINANCE	Accountant, Economist, Financial Planner, Investment Banker, Mortgage Broker, Stockbroker
	Art, Business Studies, Design and Technology, Economics, Geography, Maths, Physics	ARCHITECTURE, BUILDING AND CONSTRUCTION	Architect, Building Certifier, Drafter, Product Designer, Project Manager, Property Developer
	Business Studies, English, Geography, Languages, Maths	BUSINESS AND ENTREPRENEURSHIP	Account Manager, Business Development Officer, Entrepreneur, Human Resources Officer, Marketing Officer, Sports Development Officer
	Art, Design and Technology, Drama, Movies and Television, Writing, Music and Social Media	COMMUNICATION AND CREATIVE INDUSTRIES	Animator, Artist, Copywriter, Filmmaker, Graphic Designer, Journalist, Multimedia Designer, Musician, Public Relations Officer
	Biology, Community and Family Studies, Geography, Health and Physical Education, Maths, Society and Culture	COMMUNITY SERVICES	International Aid Worker, Migrant Support Officer, Policy Developer, Social Worker, Town Planner, Youth Worker, Environmental Manager, Human Geographer
	Business Studies, Design and Technology, English, Industrial Technology, Information Technology, Maths, Physics	COMPUTING, MATHS AND TECHNOLOGY	Computer Game Developer, Computer Scientist, Meteorologist, Renewable Energy Project Officer, Risk Analyst, Web Developer
	Art, Design and Technology, Drama, English, Geography, Health and Physical Education, History, Maths, Music, Science	EDUCATION	English as a Second Language Teacher, Learning and Development Consultant, Sport and Recreation Officer, Special Education Teacher, Teacher
	Business Studies, Chemistry, Design and Technology, Engineering Studies, Industrial Technology, Maths, Physics, Science	ENGINEERING	Computer Architect, Environmental Impact Consultant, Prosthetics Designer, Robotics Engineer, Satellite Engineer, Structural Engineer, Surveyor, Urban Development Engineer
	Biology, Chemistry, Food Technology, Health and Physical Education, Maths, Science, Physics	HEALTH AND MEDICAL SERVICES	Dental Therapist, Dietitian, Doctor, Exercise Scientist, Food Scientist, Midwife, Nuclear Medicine Technologist, Nurse, Occupational Therapist, Pharmacist, Physiotherapist, Podiatrist, Psychologist, Radiographer, Speech Pathologist, Surgeon
	Business Studies, Economics, English, Languages, Legal Studies, Media and Entertainment Studies	LAW	Contracts Manager, Industrial Relations Officer, International Aid Worker, Lawyer, Lobbyist, Political Adviser
	Agriculture, Biology, Business Studies, Chemistry, Earth and Environmental, Economics, Science, Geography, Health and Physical Education, Information Technology, Marine Science, Maths, Physics	SCIENCE AND THE ENVIRONMENT	Botanist, Microbiologist, Climate Change Analyst, Climate Scientist, Data Analyst, Food Scientist, Forensic Chemist, Geologist, Marine Biologist, Mathematician, Meteorologist, Medicinal Chemist, Physicist, Researcher, Scientific Journalist, Statistician, Wildlife Conservationist
	Art, English, Geography, History, Languages, Music, Religion, Society and Culture	SOCIETY AND CULTURE	Cultural Heritage Conservationist, Community Development Worker, Demographer, Historian, Media Analyst, Translator

DEGREES

DEGREE NAME	2019 SR	DURATION (YEARS)*	A = ASSUMED KNOWLEDGE R = RECOMMENDED STUDIES	LOCATION	COMBINED DEGREE OPTIONS
ACCOUNTING AND FINANCE					
Bachelor of Commerce	62.45	3	R: Mathematics	NC, CC	Bachelor of Business, Bachelor of Innovation and Entrepreneurship, Bachelor of Laws (Honours)
ARCHITECTURE, BUILDING AND CONSTRUCTION					
Bachelor of Construction Management (Building) (Honours)	60.00	4	R: English (Standard) or English (Advanced) and Mathematics	N, O	
Bachelor of Design (Architecture)	80.45	3	R: English (Standard) or English (Advanced) and History (Ancient or Modern), plus at least one of Visual Arts, Design and Technology or Industrial Technology	N	
BUSINESS AND ENTREPRENEURSHIP					
Bachelor of Business	61.40	3	R: Mathematics	NC, CC	Bachelor of Chemical Engineering (Honours), Bachelor of Civil Engineering (Honours), Bachelor of Commerce, Bachelor of Computer Systems Engineering (Honours), Bachelor of Development Studies, Bachelor of Electrical and Electronic Engineering (Honours), Bachelor of Environmental Science and Management, Bachelor of Food Science and Human Nutrition, Bachelor of Information Technology, Bachelor of Innovation and Entrepreneurship, Bachelor of Laws (Honours), Bachelor of Mechanical Engineering (Honours), Bachelor of Mechatronics Engineering (Honours), Bachelor of Surveying (Honours)
Bachelor of Innovation and Entrepreneurship Combined	See website for specific SR	4	R: Mathematics	N, NC	Bachelor of Arts, Bachelor of Business, Bachelor of Commerce, Bachelor of Creative Industries, Bachelor of Laws (Honours), Bachelor of Science
COMMUNICATION AND CREATIVE INDUSTRIES					
Bachelor of Communication	64.50	3	A: English (Standard) or English (Advanced)	N	Bachelor of Laws (Honours)
Bachelor of Creative Industries	60.60	3	A: English (Standard) or English (Advanced) R: At least one of Advanced English, Drama, Design and Technology, Information Processes and Technology, Music, Software Design and Development, Video and Digital Imaging, Visual Arts	NC	Bachelor of Innovation and Entrepreneurship
Bachelor of Music	N/A	3	A: Music 1 or demonstrated musical experience or qualification equivalent to Music 1 or AMEB (Grade 6 to 8 pass)	NC	Bachelor of Arts
Bachelor of Natural History Illustration	66.45	3	R: At least one of Visual Arts, Textiles and Design, Design and Technology, Senior Science, Biology or Geography	NC	
Bachelor of Visual Communication Design	63.60	3	R: At least one of Visual Arts, Textiles & Design, Design and Technology or Industrial Technology	NC	
COMMUNITY SERVICES					
Bachelor of Development Studies	78.30	3		N	Bachelor of Business, Bachelor of Global Indigenous Studies, Bachelor of Laws (Honours), Bachelor of Social Science
Bachelor of Social Science	60.90	3	R: English (Advanced) for all majors, Mathematics for Psychology Studies major	N, CC	Bachelor of Development Studies, Bachelor of Laws (Honours)
Bachelor of Social Work (Honours)	73.00	4	R: English (Standard or Advanced) and at least one of Society and Culture, Community and Family Studies or Languages.	N, CC	
COMPUTING, MATHS AND TECHNOLOGY					
Bachelor of Computer Science	75.55	3	A: Mathematics (Band 5 or above). R: Mathematics (Band E1 or above)	N	Bachelor of Computer Systems Engineering (Honours), Bachelor of Mathematics
Bachelor of Computer Systems Engineering (Honours)	80.00	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Business, Bachelor of Computer Science, Bachelor of Electrical and Electronic Engineering (Honours), Bachelor of Mathematics, Bachelor of Science (Physics major only)
Bachelor of Information Technology	62.80	4	R: English (Standard) or English (Advanced)	N, CC	Bachelor of Business
Bachelor of Mathematics	83.05	3	A: Mathematics R: Mathematics Extension 1	N	Bachelor of Chemical Engineering (Honours), Bachelor of Civil Engineering (Honours), Bachelor of Computer Science, Bachelor of Computer Systems Engineering (Honours), Bachelor of Electrical and Electronic Engineering (Honours), Bachelor of Mechanical Engineering (Honours), Bachelor of Mechatronics Engineering (Honours), Bachelor of Science
Bachelor of Mathematics (Advanced)	95.00	3	A: Mathematics R: Mathematics Extension 1	N	
Bachelor of Technology (Renewable Energy Systems)	N/A	1	A: Associate Degree of Engineering (Renewable Energy Technologies) from TAFE NSW (or equivalent).	N	
EDUCATION					
Bachelor of Education (Early Childhood and Primary)	60.40	4	A: English (Standard) or English (Advanced) and Mathematics	N, CC	
Bachelor of Education (Primary)	60.90	4	A: English (Standard) or English (Advanced) and Mathematics	N, CC	
Bachelor of Education (Secondary)	60.20	4	A: English (Standard) or English (Advanced) and Mathematics, R: English and study in the area of intended teaching specialisation. Mathematics Extension 1 (for Mathematics major).	N, CC	
ENGINEERING					
Bachelor of Aerospace Systems Engineering (Honours)	80.10	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	
Bachelor of Chemical Engineering (Honours)	81.35	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Business, Bachelor of Mathematics, Bachelor of Science (Chemistry of Advanced Materials major only)
Bachelor of Civil Engineering (Honours)	79.30	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1 (Band E1 or above)	N	Bachelor of Business, Bachelor of Environmental Engineering (Honours), Bachelor of Mathematics, Bachelor of Surveying (Honours)
Bachelor of Electrical and Electronic Engineering (Honours)	81.35	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Business, Bachelor of Computer Systems Engineering (Honours), Bachelor of Mathematics, Bachelor of Mechatronics Engineering (Honours), Bachelor of Science (Physics)
Bachelor of Engineering (Mining Transfer program)	80.95	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	
Bachelor of Environmental Engineering (Honours)	84.75	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Civil Engineering (Honours), Bachelor of Science (Environmental Remediation major only)
Bachelor of Mechanical Engineering (Honours)	80.05	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Business, Bachelor of Mechatronics Engineering (Honours), Bachelor of Mathematics, Bachelor of Science (Physics major only)
Bachelor of Mechatronics Engineering (Honours)	80.90	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Business, Bachelor of Electrical and Electronic Engineering (Honours), Bachelor of Mechanical Engineering (Honours), Bachelor of Mathematics, Bachelor of Science (Physics major only)
Bachelor of Medical Engineering (Honours)	78.05	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	
Bachelor of Renewable Energy Engineering (Honours)	83.75	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	
Bachelor of Software Engineering (Honours)	82.15	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	
Bachelor of Surveying (Honours)	78.75	4	A: Mathematics (Band 5 or above). At least one science-related subject (Physics or Chemistry preferred), R: Mathematics Extension 1	N	Bachelor of Business, Bachelor of Civil Engineering (Honours)
HEALTH AND MEDICAL SERVICES					
Bachelor of Biomedical Science	77.35	3	R: Mathematics General or Mathematics and Chemistry and at least one of Physics or Biology	N	
Bachelor of Exercise and Sport Science	72.20	3	A: At least two of Biology, Chemistry, Mathematics or Physics, R: Personal Development, Health and Physical Education (PDHPE)	CC	
Bachelor of Food Science and Human Nutrition	60.60	3	R: Chemistry, Biology and Mathematics	CC	Bachelor of Business
Bachelor of Medical Radiation Science (Honours) (Diagnostic Radiography)	86.30	4	A: English (Standard) or English (Advanced) and Mathematics or Physics	N	
Bachelor of Medical Radiation Science (Honours) (Nuclear Medicine)	72.70	4	A: English (Standard) or English (Advanced) and Mathematics or Physics	N	
Bachelor of Medical Radiation Science (Honours) (Radiation Therapy)	74.00	4	A: English (Standard) or English (Advanced) and Mathematics or Physics	N	
Bachelor of Medical Science and Doctor of Medicine (Joint Medical Program)	N/A	5	R: English (Standard) or English (Advanced)	N	
Bachelor of Midwifery	A+C*	3	A: English (Band 4 or higher), Mathematics (General) plus Biology or Chemistry	N	
Bachelor of Nursing	74.50 (NC) 69.10 (CC)	3	R: English (Standard) or English (Advanced), Mathematics (General) plus Biology	N, CC	
Bachelor of Nutrition and Dietetics (Honours)	77.30	4	R: Chemistry	N	
Bachelor of Occupational Therapy (Honours)	85.60	4	R: Biology and Mathematics	N	
Bachelor of Oral Health Therapy	79.60	3	R: Chemistry and Biology	CC	
Bachelor of Pharmacy (Honours)	72.00	4	A: Extension Mathematics (Extension 1 or 2) or Mathematics (Band 5 or 6), English (Advanced), Chemistry and Physics	N	
Bachelor of Physiotherapy (Honours)	96.50	4	A: Chemistry, English (Advanced) and at least one of Physics or Biology	NC	
Bachelor of Podiatry	72.30	3	A: Chemistry and Mathematics	CC	
Bachelor of Psychological Science	62.50	3	A: Mathematics, R: Biology	N, CC	
Bachelor of Psychological Science (Advanced)	95.00	3	A: Mathematics, R: Biology	N, CC	
Bachelor of Public and Community Health	N/A	3		CC	
Bachelor of Speech Pathology (Honours)	77.10	4	R: Biology, Chemistry, Mathematics and English (Advanced)	N	
LAW					
Bachelor of Laws (Honours) Combined	90.30	5		N, NC	Bachelor of Arts, Bachelor of Business, Bachelor of Commerce, Bachelor of Communication, Bachelor of Development Studies, Bachelor of Global Indigenous Studies, Bachelor of Innovation and Entrepreneurship, Bachelor of Science, Bachelor of Social Science
SCIENCE AND THE ENVIRONMENT					
Bachelor of Biotechnology	64.05	3	A: Mathematics and Chemistry, R: Physics	N	
Bachelor of Coastal and Marine Science	N/A	3	A: Mathematics, R: At least one of Biology, Chemistry or Earth and Environmental Science	N, CC	
Bachelor of Environmental Science and Management	64.70	3	A: Mathematics and at least one of Chemistry, Biology or Earth and Environmental Science	N, CC	Bachelor of Business
Bachelor of Science	60.25	3	A: Mathematics, R: At least one of Biology, Chemistry, Physics or Earth and Environmental Science	N, CC	Bachelor of Arts, Bachelor of Chemical Engineering (Honours), Bachelor of Computer Systems Engineering (Honours), Bachelor of Electrical and Electronic Engineering (Honours), Bachelor of Environmental Engineering (Honours), Bachelor of Innovation and Entrepreneurship, Bachelor of Mathematics, Bachelor of Mechanical Engineering (Honours), Bachelor of Mechatronics Engineering (Honours), Bachelor of Laws (Honours)
Bachelor of Science (Advanced)	95.00	3	A: Mathematics, R: At least one of Biology, Chemistry, Physics or Earth and Environmental Science	N, CC	
SOCIETY AND CULTURE					
Bachelor of Arts	60.20	3	R: English (Advanced) for all majors, Mathematics for Psychology Studies major	N, CC, O	Bachelor of Innovation and Entrepreneurship, Bachelor of Laws (Honours), Bachelor of Music, Bachelor of Science
Bachelor of Global Indigenous Studies	61.35	3		N, O	Bachelor of Development Studies, Bachelor of Laws (Honours)
Diploma in Languages	N/A	2 (Part-time only)		N	

*Subject to final University approval

N/A Selection criteria other than, or in addition to, the ATAR were used.

A+C = ATAR + other selection criteria.

^ Durations listed are full-time. Part-time options may be available for selected degrees.

NB: The 2019 Selection Ranks listed in this brochure are an indication only and change each year according to the number of places available and demand. All degrees are subject to routine review; this may result in changes to degree and course offerings.

A = Assumed Knowledge

HSC subjects you should have studied before starting your degree. Teaching will begin on the basis that you have this knowledge.

R = Recommended Studies

HSC subjects that are related to the degree. These subjects are not compulsory but you may find that they help you prepare for your university studies.

YOUR PATH TO UNI

WHAT'S AN ATAR?

ATAR stands for Australian Tertiary Admission Rank. It's a number between 0.00 and 99.95 that ranks how you perform in the HSC compared to other students.

SELECTION RANK (SR)

The Selection Rank (SR) is a combination of ATAR and adjustment points (previously called bonus points). Admission to most tertiary courses is based on a Selection Rank.

HELPFUL TIPS

Your ATAR is calculated partly based on your exam results, so it's not possible to work it out in advance – but there are things you can do to focus on getting a good ATAR:

1. Your English marks are considered first in your ATAR calculation, so great English results are worth a lot.
2. After English, the calculation includes the next best eight units. Choose subjects you like and know you are going to do well in. Some subjects are scaled differently to others. Find out more about how different subjects are scaled at uac.edu.au
3. Don't overthink it. Put your efforts into studying and you will see the rewards.

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YEAR 10

WHAT ARE YOU INTERESTED IN?

Use the study areas in this brochure to narrow down options.

CREATE A LIST

Check Assumed Knowledge and Recommended Studies and create a list of possible HSC subjects.

CHOOSE WISELY

Choose HSC subjects that will give you the best possible ATAR. Use our ATAR Tips for help.

YEAR 11

HIGH PERFORMING STUDENT?

Complete first year university subjects while at school and reduce your study time.

newcastle.edu.au/highperformers

SIGN UP

Join our mailing list for information and updates heading into Year 12.

newcastle.edu.au/signup

BOOST YOUR CHANCES

Start planning your pathway into university by considering adjustment points and entry schemes.

newcastle.edu.au/entryschemes

YEAR 12

SCHOLARSHIPS

Without support, attending university can sometimes seem impossible. Look into our available scholarships. Options range from \$500 to \$15,000.

newcastle.edu.au/scholarships

APPLY

Applications are open now! Apply via UAC.

uac.edu.au

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