

Internationally recognised



Ranked
in the
world's
top

1%

and

1st

in Western
Australia
(ARWU 2017)

1st

in Australia for
Agricultural Sciences, Biological
Sciences, Environmental
Science and Engineering, and
Marine/Ocean Engineering
(ARWU 2018)

Ranked in the world's

TOP
40

Agriculture and Forestry, Anatomy
and Physiology, and Exercise and
Sports Science (QS 2017)



Globally recognised course structure
aligned with the leading European, Asian and North
American universities



GROUP
OF EIGHT
AUSTRALIA
MEMBER

Where will your science studies take you?

Research shows that:

- one-third of graduates pursue a professional science or science-related career
- one-third of graduates use science as a launch pad to gain employment in areas where a generic skills base is highly valued
- one-third of graduates move into science-research careers or pursue a career in academia with a research organisation

UWA alumni become world leaders

Nobel Laureate
Professor
Barry Marshall
Mecca Cosmetica
founder
Jo Horgan

CEO Greenpeace
Australia Pacific
David Ritter

Former Prime Minister
Bob Hawke
and many more...



2nd in Australia for graduate
starting salary (Good
Universities Guide 2018)



THE UNIVERSITY OF
WESTERN
AUSTRALIA

Contact us

Faculty of Science

Science Student Office

Tel: +61 8 6488 7333

Online enquiries: ask.uwa.edu.au

science.uwa.edu.au

Faculty of Engineering and Mathematical Sciences

Tel: +61 8 6488 3061

Email: enquiries-ems@uwa.edu.au
ecm.uwa.edu.au

Faculty of Health and Medical Sciences

Tel: +61 8 6488 8500

Email: enquiries-hms@uwa.edu.au
meddent.uwa.edu.au

The University of Western Australia

Perth WA 6009, Australia

Tel: +61 8 6488 3061

uwa.edu.au



THE UNIVERSITY OF
WESTERN
AUSTRALIA

Science

Career choices in science

Advancing knowledge, fulfilling potential

Why science at UWA can change your life

In 2003, **Nobel Laureate Richard E Smalley** outlined humanity's top 10 problems for the next 50 years – five of them need to be tackled with science: energy, water, food, environment and disease.

The innovative teaching and research at UWA is helping to address these problems.

Why study science at UWA?

- **UWA is successful.** It's a world-class educational destination, the State's leading university and Australia's highest-ranked university internationally for Agricultural Sciences, Biological Sciences and Environmental Science.
- **You'll experience academic excellence,** international partnerships and the opportunity for international student exchange, as well as a vibrant social and community life, with more than 140 clubs and societies, all set in the

magnificent grounds of Western Australia's first university.

- **UWA has great facilities,** from state-of-the-art laboratories and a high-tech science library, to cafés and great sporting and recreation amenities.
- **Science at UWA can launch you into an amazing career.** UWA graduates have great employment opportunities and higher starting salaries – the second-highest in the country (The Good Universities Guide).

- **UWA offers greater flexibility.** You can also choose to major in a second subject, selecting from the University's many diverse areas of study.
- **An extensive range of student services** is available to support you both academically and personally.
- **UWA's Student Exchange Program** allows you to see the world while you study.

After completing a science major at UWA, you'll not only have specialist knowledge in your chosen field, you'll have gained other skills and knowledge too. The practical skills you'll learn and the experiences you'll have here can be applied to all areas of life. These broader skills are invaluable to those who choose a career in science, but are also transferable, offering value to a wide range of professions. With many organisations looking to gain an edge over their competitors by creating new products and services or improving existing ones, science graduates can be

employed across a range of industries. The in-demand skills you will gain include:

- critical thinking
- problem solving
- research and scientific methodology
- the ability to work both independently and as part of a team
- written and oral presentation techniques
- IT experience
- communication and interpersonal expertise
- creative thinking
- the capacity to apply knowledge to new situations

Studying science at UWA sets you up for the careers of the future

- | | | | | |
|---|--|--|---|---|
| <ul style="list-style-type: none">• Agricultural Economist• Agronomist• Anatomist• Animal Scientist• Biochemist• Biologist• Biomechanic• Biophysicist• Biotechnologist• Botanist• Chemist• Clinical Psychologist• Computer Programmer• Conservation Biologist• Cryptographer• Engineer | <ul style="list-style-type: none">• Environmental Officer• Evolutionary Botanist• Exercise Physiologist• Geneticist• Geochemist• Geographer• Geologist• Geophysicist• Health Professional• Human Resources Manager• Immunologist• Journalist• Land Rehabilitation Officer• Marine Biologist | <ul style="list-style-type: none">• Marine Scientist• Mathematical Scientist• Medical Professional• Meteorologist• Microbiologist• Molecular Biologist• Museum Curator• Nanotechnologist• Optometrist• Palaeontologist• Parasitologist• Petroleum Geoscientist• Pharmacist• Pharmacologist• Physicist• Plant Biochemist | <ul style="list-style-type: none">• Plant Breeder• Plant Geneticist• Psychologist• Radio Astronomer• Research Scientist• Restoration Ecologist• Science Communicator• Science Teacher• Social Researcher• Software Engineer• Soil Chemist• Sport Psychologist• Sports Coach• Sports Scientist• Stratigrapher• Statistician | <ul style="list-style-type: none">• Systems Analyst• Taxonomist• Toxicologist• Urban and Regional Planner• Virologist• Wildlife Consultant• Wildlife Manager• Wildlife Researcher• Zoologist• and many more... |
|---|--|--|---|---|

Postgraduate study is required for some of these careers.
For more information, visit study.uwa.edu.au



Science can change the world

UWA scientists are at the cutting edge of science research

Undergraduate majors in science

- Agricultural Science
- Anatomy and Human Biology
- Biochemistry and Molecular Biology
- Botany
- Chemistry
- Computer Science
- Conservation Biology
- Data Science
- Engineering Science
- Environmental Science
- Exercise and Health
- Genetics
- Geographical Sciences
- Geology
- Marine Science
- Mathematics and Statistics
- Microbiology and Biology
- Natural Resource Management
- Neuroscience
- Physics
- Physiology
- Psychological Science
- Psychology (double major)
- Science Communication (second major only)
- Sport Science
- Sport Science, Exercise and Health (double major)
- Zoology



Sarah Lau

Communications Manager, Department of Water (WA); Bachelor of Science (Science Communication)

← "At the Department of Water, we manage Western Australia's water resources sustainably, to ensure water now and for the future. As the Communications Manager, I develop engaging ways to share our science and communicate the importance and relevance of our work to people across the State. I love the flexibility and diversity of my career, which has included working at Scitech and UWA in science communication and performance roles. My science degree and specialisation in science communication have been very valuable. I can honestly say that the knowledge I gained, and the skills I practised, I continue to use every day in my line of work."



Jacqueline Alderson

Assoc/Professor,
School of Human Sciences

← "I teach in the exciting science of biomechanics or the 'mechanics of motion', which combines science, engineering, maths and computing. Biomechanics can be seen all around us; from improving the performance of elite athletes and reducing AFL knee injuries, to improving function in people with disabilities."

Science is transformative

Studying science at UWA can change your world



Ashley Marino

Bachelor of Science (Marine Science)

← "The most enjoyable parts of my degree are the people and the teachings of global affairs. Throughout my course, my perspective of the world has been broadened. I've learnt a lot about global environmental issues and the challenges other people face from unfair circumstances, and there are a lot more selfless people in the world than I realised. Travelling the world, volunteering time and money to assist the relocation or conservation of endangered species would be the ultimate rewarding goal. Starting first on Australian soil, I aspire to help rehabilitate degraded ecosystems that have been exploited for natural resources. Our society relies on the natural environment to provide everything in our lives; now the situation is reversed and the preservation of our environment depends on us. Assisting this responsibility is my future career plan."



Megan Lovatt

Bachelor of Science (Chemistry)

↑ "For as long as I can remember I always wanted to study science, but it wasn't until Year 10 that I discovered my keen interest in chemistry. In Years 11 and 12, not only was it my favourite subject but it was the one I scored highest in. Chemistry is one of those fields that is relevant in so many areas of modern science; the range of knowledge and potential job opportunities are endless. The thought of discovering something new, making a scientific breakthrough or even inventing something that could impact so many lives is exciting to me."



Jasmine Rose Begovich

Bachelor of Science (Physiology)

← "I've always loved not just learning things about the world around me but discovering how they work and why. A major in Physiology has been the perfect mix of both form and function of the human body, delving not only into the basics of anatomy but understanding how each system works together and deals with stress. UWA allowed me to tailor my degree to exactly what I wanted. I'm studying both Physics and Physiology, which may be seen as a strange combination, but for me it has given me a more holistic and in-depth experience into how the world works across all areas. The best part of the Physiology major is having the opportunity to be the subject of our own experiments. It takes concepts that may seem quite isolated, far away in a textbook, and allows you to see how it can impact your own body function firsthand, giving me a much deeper understanding of concepts."



Yong Xiang Yeo

PhD and Master in Clinical Neuropsychology

↑ "I am very interested in how the brain works, and how it relates to behaviour and how we function as humans. By learning about neuropsychology, I want to be able to help improve the lives of individuals with brain-related disorders through cognitive rehabilitation. The combined course I am undertaking has a very good reputation and is not offered in many universities in Australia, let alone the State. The lectures and course units are well planned and the structure is varied, giving good exposure to this broad field. The course coordinators are very helpful, approachable and understanding, and I feel I am getting a high standard of education in preparation for the future. I hope to be able to learn and retain the knowledge from the course, as well as learn from the experiences the course provides."

Science is satisfying

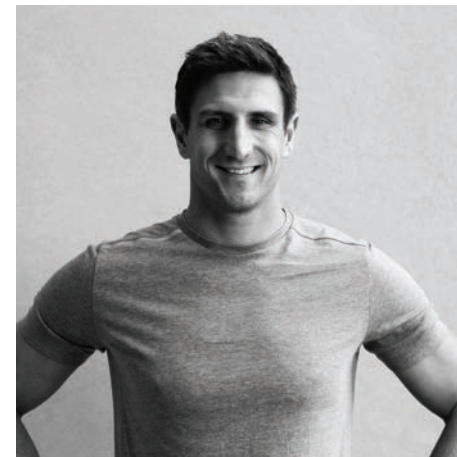
Science at UWA can launch you into an amazing career

Matthew Pavlich

President of the AFL Players Association/
Co-founder and Director of PickStar/Director of PMY Group

Bachelor of Science (Exercise and Health)

→ "While at UWA I learnt some valuable skills in time management. Juggling study with a full-time football career taught me to compartmentalise my different commitments and be 100 per cent focused on each task when required. Learning anatomy and exercise physiology was also directly beneficial to me, being an athlete. Having that thorough understanding of how my body works helped me enormously in getting the best out of my elite preparation and performance. More recently, the MBA units and the related in-class experiences have given me better business skills and are complementing the practical team dynamics, culture and leadership I have gained from my football career."



Ming Fung Chua

Bachelor of Science (Agricultural Science and Conservation Biology)

→ "The one thing I enjoyed most about my course was the opportunity to attend the 16th International Students Summit in Tokyo with a classmate. It was the best opportunity to network with students from other top agricultural universities and experience Japanese culture. We had a field trip down to Aoki, Nagano, and it gave us hands-on experience of harvesting rice and mushrooms while up on a mountain. I made so many friends and now I am sure we will be working together in the future to solve major agricultural challenges."



Pieter Poot

Senior Lecturer in Plant Ecophysiology and Conservation Biology, School of Biological Sciences

→ "I have always been fascinated by the beauty and diversity of our natural world. What traits determine whether a species can be successful in a particular habitat and what determines whether a species is rare or common? Why do some habitats or regions in the world have so much more biodiversity than others? Being one of the coordinators of the Conservation Biology major, I can combine my passion for teaching with that for furthering our understanding of our natural world, which will ultimately help to manage and conserve our threatened species and communities."



Shaun Collin

Comparative Neurobiologist, Professor/WA Premier's Research Fellow,
School of Biological Sciences and UWA Oceans Institute

→ "From an early age I always saw myself as working in the field of marine biology. However, it was not until much later that I also became interested in neuroscience and decided to integrate these two interesting fields in order to explore how and why aquatic animals are able to survive in such a large range of different environments."



Thomas Windsor

Bachelor of Science (Botany)

↑ "I decided to pursue botany at UWA because of its location within an incredibly biodiverse and unique region of Australia. Being able to participate in field trips to dune systems in Lesueur National Park and even up to the Pilbara, with staff and scientists who live and breathe their research, has been among the best experiences of my degree. The most enjoyable part of my degree has been the opportunity to volunteer within the School of Biological Sciences. The research staff and students are super-generous and accommodating to undergrads who demonstrate a little initiative and enthusiasm."

Science facilities

UWA Farm Ridgefield

Students and researchers have access to field facilities at UWA Farm Ridgefield near Pingelly. The 1600-hectare property raises crops and is a research site for several projects, including research on biodiversity and ecology, carbon storage and greenhouse gas emissions. UWA Farm Ridgefield is home to the Future Farm 2050 Project (ioa.uwa.edu.au/future-farm-2050), and is the focus of the first Critical Zone Observatory in the Southern Hemisphere.

Plant growth facilities

Students and researchers have access to plant growth facilities on campus. A well-equipped field station is also located close to campus and includes irrigation, glasshouses, phytotron, PC2 containment facilities and a plant quarantine facility.

Bayliss Building

This five-storey building is a thriving centre for world-class research and teaching in biomolecular sciences and chemistry, with advanced labs and cutting-edge instrumentation on every level. It's the largest building on campus and features an impressive DNA double-helix design.

Centre for Sleep Science

The Centre for Sleep Science boasts five bedrooms equipped with state-of-the-art recording and analysis equipment for laboratory-based research and sleep studies. The base for a number of postgraduate sleep-training courses at UWA, the centre also contains training and seminar rooms, and offices for staff and students.

Robin Winkler Clinic

The Robin Winkler Clinic is a clinical psychology and clinical neuropsychology unit linked to the School of Psychological Science at The University of Western Australia. Under the expert supervision of experienced clinical psychologists and clinical neuropsychologists, provisionally registered postgraduate clinical psychology and clinical neuropsychology trainees carry out individual and group therapy treatment, neuropsychological assessment and rehabilitation for children, adolescents, adults and seniors.

Reid Library

Home to more than a million books, UWA's Reid Library is the largest academic library in Western Australia. Recent renovations doubled the number of collaborative student spaces and improved the facilities, technology and access available, as well as delivering a brand new café.

Barry J Marshall Library

UWA's hub for science students and researchers, this library is named after the University's Nobel Prize-winning professor. It features collaborative areas, soundproofed study rooms, multimedia suites and a café on site.

For more stories from UWA science graduates or to find out more about careers in science and UWA's Faculty of Science, visit science.uwa.edu.au