

Science

2019 Offerings

- Applied Chemistry
- Biological Sciences
- Chemistry
- Computer Science
- Conservation & Wildlife Biology
- Counter Terrorism Security & Intelligence
- Cyber Security
- Data Science
- Environmental Management
- Information Technology
- Interdisciplinary Studies
- Marine & Freshwater Biology
- Mathematics
- Mathematics & Planning
- Physics
- Science
- Security Management
- Software Engineering
- Sustainability



School of Science at Edith Cowan University

The School of Science at Edith Cowan University (ECU) offers a range of courses in the areas of science as well as computing and security. When it comes to studying science and the environment, ECU's research and teaching are world-class. You'll find a range of practical degrees that can lead to distinctly different careers in fields such as marine and freshwater biology, conservation and wildlife biology, environmental management, physics, chemistry, mathematics, data science, and more.

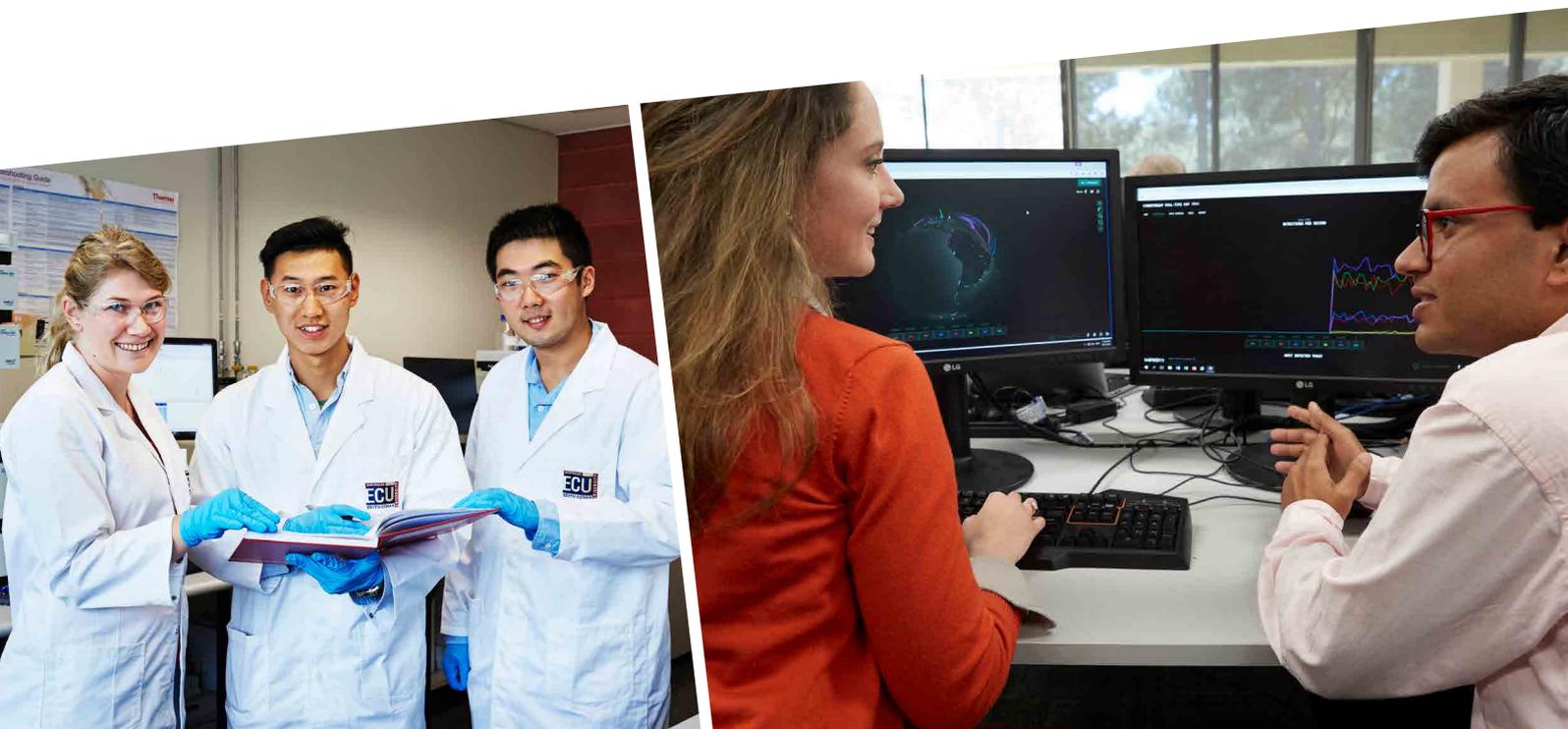
Computing and Cyber Security at ECU

ECU is a recognised leader in Cyber Security education and research, and in 2017 was recognised by the Australian Federal Government as one of just two Academic Centres of Cyber Security Excellence in Australia, and the only one in Western Australia.

Two of our staff are Interpol recognised cyber crime experts. ECU will also play a key role in the Federal Government funded \$139 million Cyber Security Cooperation Research Centre, which will have its Head Office at the ECU Joondalup Campus. Our cyber security research and education team is one of the best in Australia.

Science at ECU

ECU provides a learning environment where you can thrive. When it comes to studying science and the environment, ECU's teaching and research are world-class. You'll find a range of practical degrees that can lead to distinctly different careers in fields such as marine and freshwater biology, conservation and wildlife biology, environmental management, mathematics, data science, physics, chemistry and more. You can choose to specialise in specific fields or multi-skill across a combination of majors to increase your career options.





Advanced Labs

At ECU's School of Science, students have access to labs equipped with the latest technology, from state-of-the-art mass spectrometry analytical equipment to the latest in computer technology. We have made multimillion dollar investments in technology to ensure that students get to learn on the latest equipment, so they can hit the ground running when they graduate.

Computing & Information Systems Best in Australia

We've been rated Australia's top university for overall education experience in the Computing & Information Systems discipline in the 2018 QILT ratings.

Professional Accreditations and Alliances



We offer courses that are professionally accredited by the Australian Computer Society (ACS).

Industry Partners

Many of our courses offer direct links with industry and organisations; here are some examples of where our students have undertaken work projects or professional experience:

- Astron Environmental Services
- Biostat (fauna consulting)
- BMT Oceanica
- Department of Fire and Emergency Services (DFES)
- Department of Biodiversity, Conservation and Attractions
- Forest Products Commission
- Hydrobiology

Employment Opportunities

It is estimated there will be a shortfall of more than 1.5 million cyber security professionals around the world by 2020. Meanwhile almost 20 per cent of positions in the sector in Australia will go unfilled because of a lack of trained professionals.

"I worked with the WA Police to create software that will have real community benefits."

I was really impressed with the number of computing labs and the 24/7 accessibility at ECU. Not only did they provide me with all the resources I needed to succeed at university, the atmosphere allowed me to make great friends and enjoy my study.

I didn't expect to be able to work for real clients during my time at uni, so was surprised when I was given the opportunity to develop software for the WA Police Air Wing.

We developed a mobile phone app that could assist police in search and rescue missions. We were able to work with them on the design and then able to test the app in the field using the Police helicopter. The experience and recognition has been invaluable.

Laurence Da Luz
ECU Computer Science graduate



Courses

Our flexible courses and world class teaching, combined with our Work Integrated Learning Program and close industry links, will provide you with endless possibilities in Australia and internationally.

Visit ecugetready.com.au/science for more information on our Science offerings.

Undergraduate Courses

- **Bachelor of Computer Science**

Majors: • Cyber Security • Software Engineering

- **Bachelor of Counter Terrorism Security and Intelligence**

Majors: • Biological Sciences • Criminology • Cyber Security • Law in Business • Management • Politics and International Relations • Professional Studies

- **Bachelor of Information Technology**

Majors: • Cyber Security • Software Engineering

- **Bachelor of Science (Cyber Security)**

- **Bachelor of Science (Security)**

- **Bachelor of Science**

Majors: • Addiction Studies • Applied Chemistry • Aviation • Biological Sciences • Computer Science • Conservation Biology • Data Science • Environmental Management • Health Promotion • Human Biology • Marine and Freshwater Science • Mathematics • Nutrition • Occupational Safety and Health • Physics • Sports Science

- **Bachelor of Science/Bachelor of Commerce**

Science Majors: • Addiction Studies • Applied Chemistry • Aviation • Biological Sciences • Computer Science • Conservation Biology • Data Science • Environmental Management • Health Promotion • Human Biology • Marine and Freshwater Science • Mathematics • Nutrition • Occupational Safety and Health • Physics • Sports Science

Business Majors: • Accounting • Event Management • Finance • Hotel Management • Human Resource Management • International Business • Law in Business • Management • Marketing • Project Management • Sport Business • Tourism and Hospitality Management

- **Bachelor of Science (Biological Sciences)**

- **Bachelor of Science (Conservation and Wildlife Biology)**

- **Bachelor of Science (Environmental Management)**

- **Bachelor of Science (Marine and Freshwater Biology)**

- **Bachelor of Sustainability**

Majors: • Developing Sustainable Communities • Humanities and Arts • Sustainable Business Management • Sustainable Environments

Postgraduate Courses

- **Master of Computer Science**

- **Master of Science (Computer Science) by Research**

- **Graduate Certificate of Cyber Security**

- **Graduate Diploma of Cyber Security**

- **Master of Cyber Security**

- **Master of Environmental Science**

- **Master of Science (Biological Sciences) by Research**

- **Master of Science (Chemistry) by Research**

- **Master of Science (Environmental Management) by Research**

- **Master of Science (Interdisciplinary Studies) by Research**

- **Master of Science (Mathematics and Planning) by Research**

- **Doctor of Philosophy**

- **Doctor of Philosophy (Integrated)**

Why Study at ECU?

We equip you with the confidence and practical skills to deal with whatever challenges may come your way, no matter where you are in the world. We have direct links with industry and organisations, which means you get hands-on experience while you're studying. Our degrees are internationally recognised and a considerable number of courses are professionally accredited by a variety of national and international organisations. Your learning extends beyond the classroom with our practicum, work integrated learning, and internships.

Perth

Perth is the capital city of Western Australia, which is the largest state in Australia and The Economist Intelligence Unit (2004-2017) has rated Perth one of the top 10 most liveable cities in the world for the past 14 years.



Getting Around Perth

Perth has a modern and safe public transport network that is convenient and accessible for students.

- **Free bus service:** Perth, Fremantle and Joondalup city zones have a free bus service.
- **Discount:** Full-time students receive between 40% and 45% discount on all public transport.

Visit the Transperth website transperth.wa.gov.au for more information



Population

Perth: 2 million
Western Australia: 2.58 million
Australia: 24 million

Rankings



Most Satisfied Students

Ranked the top public university in Australia for most satisfied students in the 2017 and 2018 QILT survey results.



Times Higher Education

Ranked 101-150 in the Times Higher Education (THE) Young University Rankings for 2018.



Five-Star Teaching Quality

Five star rating for teaching quality for 11 years in a row in the Good University Guide.



International Scholarships

Our scholarships provide you with a **20%** fee reduction off your tuition fees for the duration of your course, worth up to **\$27,200**.

Visit ecu.edu.au/international-scholarships for more information.

Our changing world needs a university to change with it.

A university where courses composed with industry deliver the most relevant knowledge and skills.

So be the graduate the changing world needs.

And **get ready** at ECU.

Contact

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W international.ecu.edu.au

Find us at

-  ECUjourney
-  edithcowanuni
-  edithcowanuniversity



Visit vr.ecu.edu.au to take a virtual tour of our campuses and facilities.

Information correct as of 28 August 2018.

