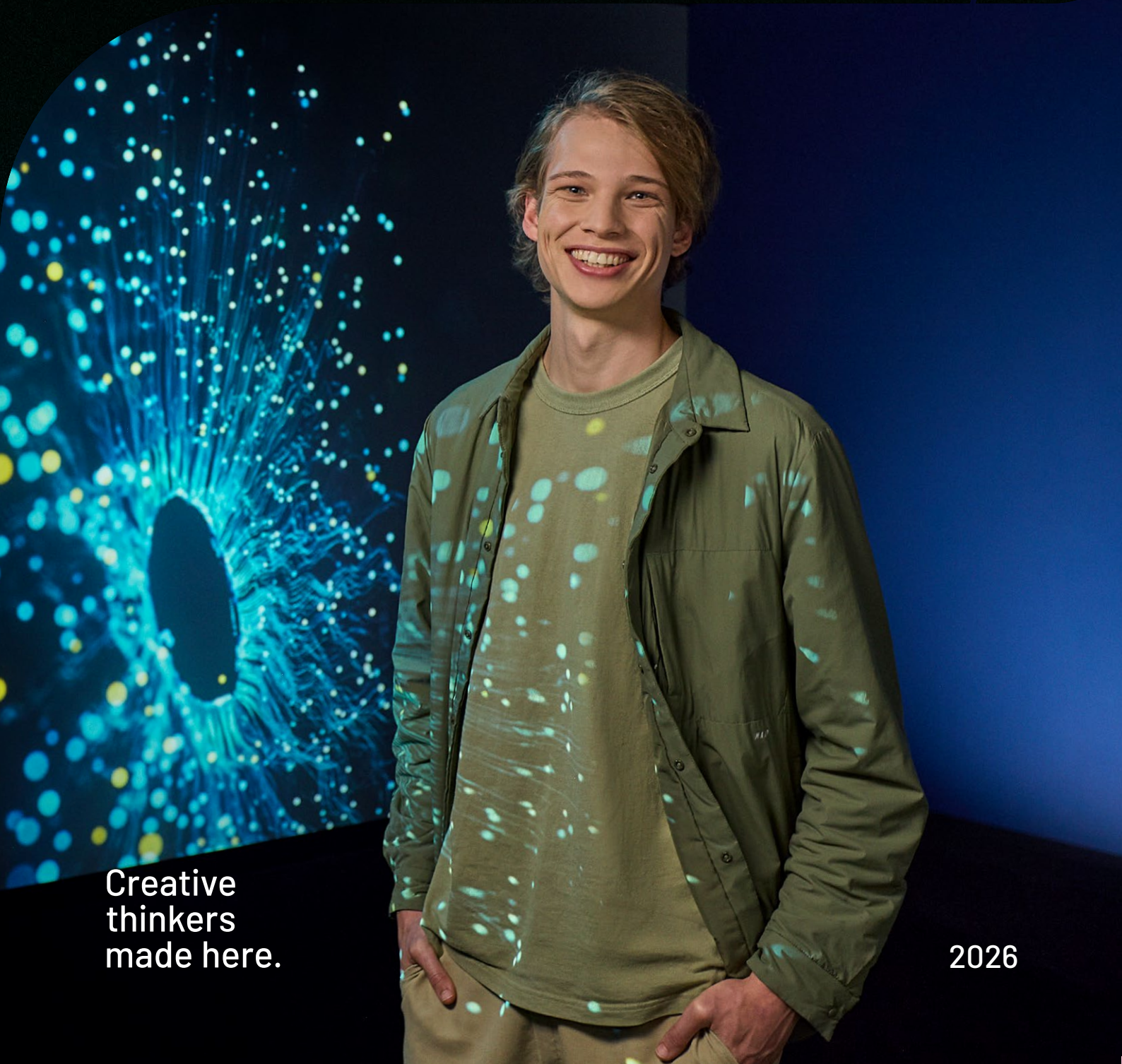# ECU
EDITH COWAN UNIVERSITY

Careers in Science

Analytical Chemist
Botanist
Computer Programmer
Conservation Field Officer
Counter Terrorism Consultant

Cyber Security Analyst
Data Scientist
Environmental Consultant
Intelligence Officer
IT Specialist

Medical Physicist
Marine Scientist
Security Consultant
Software Engineer

Creative thinkers made here.

2026

Shape the future

Creative thinking.
It's essential for tackling challenges.
Seizing opportunities.
For today.
But more importantly, tomorrow.
Creativity is how we move forward.
It sparks innovation.
In every industry.
And at ECU, it's at the core of
everything we do.

Creative thinkers made here.

At ECU, we recognise and respect the significance of Aboriginal and Torres Strait Islander peoples' communities, cultures and histories.

We also acknowledge and respect the Noongar people as the traditional custodians of the land on which our campuses are located.

ECU City opening in 2026

ECU City represents the future of university education – a place where technology, industry and creativity meet to deliver the creative thinkers the world needs.

Located at the heart of Perth's commercial, cultural and entertainment districts, ECU City will feature state-of-the-art spaces for study and collaboration, cutting-edge learning and technology facilities, and world-leading performance venues.

ECU City will open to students from semester one, 2026.

→ Find out more —
ecu.edu.au/degrees/ecu-city

Why study at ECU?

There are so many good reasons to choose ECU for study. Here are some of the better ones.

Get career ready while you study

During your studies, we'll help you build your personal brand to prepare you for a new career.

Travel overseas as part of your studies

In lots of courses, you'll have opportunities like study exchanges with other unis, study tours and more.

Know you'll be supported

We'll help you adjust to your new life as a student, whatever your study or personal challenges.

Get practical experience outside the classroom

You'll quickly turn theory into practice with work experience opportunities like internships, practicums and more.

Industry partnerships open doors to you

Exciting internship or prac placements through our partnerships with IBM, West Coast Eagles, state-wide schools, hospitals and more.

Become a creative thinker

Creative thinking is a skill that's highly valued by employers and we'll help you make it your superpower.

Experience 5-star teaching and student support

Your lecturers and tutors will help you get the best out of yourself and will introduce you to new networks and possible employers.

Gain specialised skills

Our courses allow you to specialise in and gain expertise in a core discipline.

Apply for a scholarship

Our scholarships are awarded to students from all kinds of backgrounds and for all kinds of reasons. It's not just the academically brilliant ones. This includes people who've had a challenging life without the same opportunities as others. A scholarship can help you realise your ambitions by paying for fees, textbooks and living expenses.

→ Find out more —
ecu.edu.au/scholarships

Top rated university

THE World University Rankings Young 2024 TOP 100

Ranked in the world's top 100 universities under 50 years old.

QILT Quality Indicators for Learning and Teaching

The top public university in Australia for undergraduate overall experience.

Rated 5 stars for undergraduate teaching quality for 18 straight years in a row.

Start your career

It's not unusual for uni students to be unsure about careers or what course to study. Here are some ways to help you decide what to study.

Try our 5-minute Career Finder quiz

This quiz might surprise you with a suggested career direction and courses that take you there.

→ Take the quiz —
ecu.edu.au/study/career-finder

Check out our study areas

Our eight study areas cover courses that lead to different careers and industries.

→ Find out more —
ecu.edu.au/degrees/study-areas

Parents' guide to university study

Whether your child is the first in the family to go to university or you've been here before, this little guide will help you understand some of the mysteries of higher education.

→ Download the guide —
ecu.edu.au/industry/career-counsellor-resources

Come to an event

Visit one of our campuses and attend an Open Day or information session.

→ Find out more —
ecu.edu.au/events

Life as a student

It doesn't matter if you've just left high school or you haven't been a student for a few years, study at uni is a whole new world.

The good news is, no matter what your study challenges, we're ready to help you succeed.

Adjusting to study whatever your situation

At ECU, we'll support you through your studies whatever your personal circumstances.

Our Access and Inclusion team will work with you to identify reasonable adjustments to your study and uni life.

This includes if you have a medical condition or disability or have responsibilities for caring for a family member in a similar situation. It might also include ensuring you can continue to observe any cultural or religious practices.

Adjusting to academic life

Learning at university can be a bit daunting to begin with, but we've got you covered whatever help you need.

That includes help with preparing assignments, help with researching or referencing, help with online study and loads more. You can even get a peer leader in your first semester!

Free counselling service

If you need to discuss any personal issues that may be affecting your ability to study, we have a free, professional and confidential counselling service.

Career advice and job skills

You can get support and resources to help you plan your future career, as well as find work or volunteering experience while you're a student.

This includes career-based workshops, industry events, one-to-one career advice and more.

Student health services

All ECU campuses have health centres with doctors (GPs), nurses and allied health services to assist you if you need them.

Sport and fitness

Staying active can help sharpen your mind and reduce the stress of assignments and exams.

ECU has fantastic sport and fitness facilities, designed to support your health and wellbeing. You can also join group fitness classes tailored for everyone, or drop into fun social sports and competitive representative events.

Childcare for parents

If you're a student with children, our campuses provide short term care (Crèche) and long term care (Day Care) at select locations.

Wellbeing and mental health

The Living Room is a safe and inclusive space where you can drop in to have a relaxed chat with a trained peer who understands the journey you are going on as a student.

Do you identify as an Aboriginal or Torres Strait Islander?

If that's your background and you'd like assistance with choosing a university entry pathway, please let us know.

Our team at the Centre for Indigenous Australian Education and Research, called Kurongkurl Katitjin, can also help you better understand and adapt to university life.

And we provide services on campus like:

- Nala Karla Student Rooms and facilities
- Tutorial Assistance
- Elder-in-Residence Program

Find out more —
ecu.edu.au/indigenous

Travel overseas while you study

University study is way more than lectures, reading and assignments. As a student, you might also have opportunities to travel overseas as part of your studies, where you can immerse yourself in a new culture and develop lasting friendships.

Not only will this look good on your résumé, but it's also an excellent opportunity for you to challenge yourself and broaden your horizons.

Student exchange

This is a program where you apply to study units related to your university course for one or two semesters in another country.

ECU has partnerships with 90 institutions in 35 countries around the world, so there's plenty to choose from.

Go on a study tour

Overseas study tours are possible during your time at ECU, and they usually run for one to two weeks.

You'll join a group of classmates and learn in another country, while developing your cultural communication skills. And having fun!

International Dual Degrees

UNIVERSITY OF **PORTSMOUTH**

Study in the UK

ECU has a partnership with the University of Portsmouth in the UK that provides students from each university with the opportunity to spend a year in the other campus as part of their studies.

This leads to you graduating with a unique dual degree in disciplines such as Biomedical Science, Cybercrime, Security and Intelligence, Environmental Science, Psychological Science, Exercise and Sports Science, Media and Communication and Global Sport Business.

The number of courses is expected to grow, but it's another way you can spend time in another country, build contacts and experience, and have two degrees on your résumé.

→ Find out more —
ecu.edu.au/uni-portsmouth

Careers in Science

Some of the fastest growing jobs in Australia require people with qualifications in Sustainability, Cyber Security, and Data Science*. ECU's Science courses can lead you to these in-demand careers.

Our science degree offers a wide choice of majors, that can lead to distinctly different careers in fields such as environmental science, chemistry, sustainability, physics, marine biology, data science and more.

Or if you're interested in computing and security, ECU offers industry-renowned courses in cyber security, computer science, information technology, software engineering, and counter terrorism security & intelligence.

Our world-class teaching, combined with our practical learning approach and close industry links, will provide you with endless career opportunities in Australia and internationally.

* Source: LinkedIn jobs rise 2023-2025

Work Integrated Learning

We believe the sooner you start working in the field you've chosen, the better prepared you'll be when you graduate. Which is why ECU's School of Science provides a number of Work Integrated Learning (WIL) opportunities including internships, industry projects completed on-campus, short term placements or industry/community volunteering. Through ECU's WIL program you might have an opportunity to undertake an internship with one of ECU's many partners, such as global giant IBM. IBM offers paid internships to some students while they're studying, with the chance of employment when they graduate.

"During my internship at IBM I got to work on and develop products that are being used by the client now."

Jakub Antoniewicz
ECU Computer Science graduate

→ **Watch Jakub and Darren discuss their IBM experience.**

5 Reasons to Choose Science at ECU

International Reputation
Only Australian university that is an International Cybersecurity Center of Excellence.

Range of Scholarships
A variety of scholarships valued upto $15000.

Industry Networking
Many opportunities to meet and network with industry including the Annual Science Careers Fair.

Advanced Facilities
Equipped with the latest technology including multiple super labs. Also ECU has the only multimillion dollar Security Operations Centre at an Australian university.

Work Integrated Learning
Students get real world experience through internships, work experience and industry projects.

Science courses

We live in challenging times. Now is the time for people with scientific mindsets to step up. If you're interested in science, but not sure about a direction to go in, our science degree gives you the flexibility to explore subjects that could change the world. This could be your chance to rethink how the world works and to help build a better one.

ECU's exciting Bachelor of Science degree offers a variety of diverse majors to choose from, giving you the opportunity to specialise in a discipline of your choice . You can then multi-skill by selecting from a range of optional units, creating a unique graduating skillset to increase your career options.

You'll get the opportunity to learn in the field, or in state-of-the-art superlabs in a Science building that features the largest permanent periodic table in the world.

As a Science graduate you could be employed across a wide range of organisations including agrochemical, automotive or aerospace industries, banking, conservation organisations, defence, education, energy and government.

Depending upon your chosen major your job title could be Analytical Chemist, Environmental Consultant, Data Scientist, Modelling Analyst, Environmental Management Officer, Horticultural Project Officer, Marine Scientist, Freshwater Biologist, Medical Physicist or Sustainability Practitioner.

"The units I studied were closely aligned to real world applications."

Scott Hazelden
ECU Science (Environmental Management) graduate

Bachelor of Science

Indicative ATAR: 70
Minimum Duration: 3 years
Location: Joondalup, South West*
Study Mode: Full-time, Part-time

* Students studying on the South West (Bunbury) campus study a major in Environmental Management and Conservation Biology.

Overview

Have a favourite science subject? In this course, you can major in one of nine diverse subjects, and choose a minor area of study from a range of options. Create a unique course and study what you love. Or use your first year to find out what you really like. In your final year, you'll have the opportunity to gain work experience via a semester long professional placement, the only one of its kind in Australia! This course also provides a strong pathway into the Master of Teaching course for those aspiring to become science or mathematics teachers.

Majors you can study in this course

- Chemistry
- Conservation Biology
- Data Science
- Environmental Management
- Environmental Management and Conservation Biology
- Horticulture
- Marine and Freshwater Science
- Mathematics
- Physics
- Sustainability.

Industry Experience

Students have the opportunity to seek a Work Integrated Learning placement with an industry partner relevant to the Science and Mathematics discipline.

Career Opportunities

Science graduates are employed across a wide range of organisations. These include agrochemical companies, automotive and aerospace industries, banking, computing, consultancies, conservation organisations, defence, education, energy, environmental departments, environmental consulting, export, government, health, healthcare, IT, land and water management, materials, meteorology, mining, natural heritage, parks and gardens, sport, technology, industries dealing with conservation of biodiversity, environmental impact assessment and management and rehabilitation of specific ecosystems (such as wetlands, forests, coastlines and arid regions), species conservation programs, and environmental planning.

See more course information —
ecu.edu.au/courses/M04

Majors

Chemistry

Step into the experimental and ever-evolving world of analytical chemistry. Develop analytical and instrumentation skills as you learn the diverse methods used to investigate the chemical nature of substances in a range of applications, from pure laboratory analysis to environmental investigations and monitoring and medical applications.

Conservation Biology

Biodiversity starts with diverse thinking. In this major, you'll learn the knowledge and skills required to help protect our precious ecosystems, including the ability to analyse complex interplays between humans and the natural world and devise approaches to important conservation issues.

Data Science

Delve into the world of Data Science and discover key insights about the world around you. Learn the skills to visualise and analyse data, use machine learning to find patterns in data, make predictions or recommendations across a range of industries including health and medical, environmental, research and business sectors. This major focuses on your numeracy and analytical skills, setting you up to be competitive in the data scientist and data analyst fields.

→ **Find out more about how big data is creating big opportunities for students**

Environmental Management

Ready to play a key role in our environmental future? In this major, you'll develop a specialisation in the core areas of environmental management including the sustainable management of natural areas and urban landscapes. Learn the biological and physical aspects of our environment and unlock the skills needed to manage it. This major also covers multidisciplinary topics including scientific, economic, legal and societal issues.

Environmental Management and Conservation Biology

In this major, you will develop a specialisation in the core areas of environmental management and conservation biology, including the sustainable management of natural areas and urban landscapes. You will learn the biological and physical aspects of our environment and gain the knowledge and skills required to help protect and manage our precious ecosystems, including the ability to analyse complex interplays between humans and the natural world and devise approaches to important conservation issues. This major also covers multidisciplinary topics including scientific, economic, legal and societal issues.

Horticulture

Grow your knowledge in the innovative field of horticulture, including plant propagation, sustainable production and postharvest biology and technology of horticultural produce. This major has a strong emphasis on both laboratory and field experiences, as well as industry engagement, to consolidate theoretical knowledge and practical skills and prepare you for professional practice.

"My course was very hands-on and included multiple field trips as part of my studies, and a 'Work Integrated Learning Placement', working with a marine consulting employer. There I was exposed to many aspects of the marine consulting industry, learning from the experience of professionals and gaining invaluable insights and advice not covered in textbooks."

Bree Elliott
ECU Science
(Marine and Freshwater Science) student

Marine and Freshwater Science

Take your marine and freshwater science knowledge to new depths and learn the skills to make a real difference, from biodiversity to biological and physical processes to the management and understanding of water-based ecosystems. You can apply this degree in the management of marine parks and inland aquatic areas, environmental impact assessment and conservation of marine and freshwater fauna and flora.

→ **Find out how Bree dove into an ocean of possibilities**

Physics

Explore the science of everything with a major in Physics. Learn the analytical and problem-solving skills that industry is looking for, with strong emphasis on scientific instrumentation, measurement and analytical skills. You'll also experience a practical understanding of physics through a range of exciting laboratory-based programs and projects.

Mathematics

Go beyond the numbers and take theory into the real world as you develop your understanding in the core areas of applied mathematics, including calculus, statistics, mathematical modelling and linear algebra. This major will give you the necessary background to do higher studies in areas of applied mathematics and statistics and to engage with multidisciplinary teams to solve problems in diverse contexts such as economics, health, engineering, and science.

Sustainability

Now more than ever, our world needs sustainability. In this major, you'll develop the interdisciplinary knowledge needed to be the change, and apply that knowledge to nature conservation, impact assessment and natural resource management. Studies include an emphasis on field-based exercises, including an exciting project to enrich your understanding of ecologically sustainable processes on land and in water.

→ **Find out how Amber is pursuing a sustainable career**

"The degree I am studying is interesting as the course is so broad, therefore it can lead to many different future career options."

Andrew Denton
ECU South West Environmental Management and Conservation Biology student

Science at ECU South West

The Bachelor of Science is also offered at ECU's South West Campus in Bunbury with a bespoke major in environmental management and conservation biology. Students gain a balance between theory and practical learning with many fieldwork opportunities available in the environmentally diverse South West region. In addition, the internships and work integrated learning opportunities prepare graduates for careers in conservation of biodiversity and environmental management in government and private organisations, many of which already have a presence in the region.

With state-of-the-art equipment and a course structure that mirrors what is offered at ECU Joondalup, South West students are guaranteed a quality tertiary education, with the ability to easily transition between campuses if desired. Scholarships are available for those interested in studying this course in the South West.

→ Find out more —
ecu.edu.au/ecu-south-west

Bachelor of Environmental Science

Indicative ATAR: 70
Minimum Duration: 3.5 years
Location: Joondalup*
Study Mode: Full-time, Part-time
*Years 1 and 2 on-campus at ECU. Year 3 on-campus at UoP, UK. Final semester on-campus at ECU.

Overview

In this exciting international dual degree, you'll gain a grounding in the biological, chemical, physical and social aspects of the environment and the knowledge and skills used in its management.

It involves two and a half years' study at ECU and one at the University of Portsmouth, UK. That's two degrees – a Bachelor of Environmental Science from ECU and a BSc (Hons) Environmental Science and Management from the University of Portsmouth (UK). You'll also have the chance to do fieldwork in the Mediterranean.

Career Opportunities

The strong management focus of this course will prepare you for careers in government agencies and industries that deal with conservation of biodiversity, environmental impact assessment, environmental planning and the management and rehabilitation of specific ecosystems such as wetlands, forests, coastlines and arid regions. Your job title could be Ecotourism Officer, Environmental Management Officer, Land Management Officer, Environmental Consultant, or Environmental Educator.

→ See more course information —
ecu.edu.au/courses/W89

Computing & Security

Skills in computing are highly sought after all over the world. Businesses need people like you to come up with original ideas and solutions that add value. The future looks good if you're interested in a career in computer science, cyber security, software development, information technology or counter terrorism security and intelligence.

5 Reasons to Choose Computing & Security at ECU:

ECU is the only Australian university that is an International Cybersecurity Center of Excellence.

ECU has the only multimillion dollar Security Operations Centre at an Australian university.

Many work experience, industry projects and internship oppotunities including at Local Government and local and global businesses like IBM.

The IBM Future Lab located at ECU Joondalup campus helps train West Australian students for jobs in Artificial Intelligence (AI), sustainability and energy transition.

High-tech computing and cyber security labs equipped with the latest technology.

Bachelor of Computer Science

Indicative ATAR: 70
Minimum Duration: 3 years
Location: Joondalup, Online
Study Mode: Full-time, Part-time

Overview

Thinking about a career in computing? This course will introduce you to programming principles, systems analysis and computer security and more in your first year. You'll move into advanced topics like AI and choose a major subject in cyber security or software engineering, in the last 2 years. You'll also have an opportunity to undertake complex computer science projects, both independently and in teams. Graduate with skills that are in demand.

Majors you can study in this course

- Cyber Security
- Software Engineering

Industry Experience

Students have the opportunity to seek a Work Integrated Learning placement with an industry partner, equivalent to one semester of full-time study.

Career Opportunities

The course will provide you with a range of career options, including as a Computer Programmer, Application Developer, Systems Analyst, Software Engineer, Software Designer or a Technical Program Manager.

Professional Recognition

This course is accredited by the Australian Computer Society.

→ See more course information —
ecu.edu.au/courses/U65

Majors

Cyber Security

This major focuses on both the practical and theoretical dimensions of cyber security across a range of fundamental areas. These include network security and vulnerability assessment, information security, digital forensics, cryptography and ethical hacking.

Software Engineering

This major reflects the modern engineering approach to developing software. It covers all areas of the systems development life-cycle, including analysis, design, implementation and testing.

Bachelor of Information Technology

Indicative ATAR: 70
Minimum Duration: 3 years
Location: Joondalup, Online
Study Mode: Full-time, Part-time

Overview

This course is similar to Computer Science (Code U 65) until your second year. In your first year, you'll be introduced to concepts including programming, mathematics, networking, databases and computer security. You'll then develop advanced skills in IT that include web development, data management and visualisation in an enterprise context, IT security management and project management. You'll also tackle complex IT projects – either with peers or on your own.

Industry Experience

Students have the opportunity to seek a Work Integrated Learning placement with an industry partner, equivalent to one semester of full-time study.

Career Opportunities

The course will provide you with a range of career options, including as a Computer Support Officer, Systems Analyst, IT Consultant, Systems Administrator, Software Support Officer, Project Manager, Systems Integrator, Data Analyst.

Professional Recognition

This course is accredited by the Australian Computer Society.

See more course information —
ecu.edu.au/courses/U67

Bachelor of Science (Cyber Security)

Indicative ATAR: 70
Minimum Duration: 3 years
Location: Joondalup, Online
Study Mode: Full-time, Part-time

Overview

Cyber security is huge at ECU. In fact, we're the only Australian university recognised as an International Cybersecurity Centre of Excellence.

Cyber security skills are in demand across the world. In this course you'll study network security and vulnerability assessment, information security policy and governance, digital forensics, and ethical hacking. You'll also delve into network enabled devices like smartphones, tablet devices, and the Internet of Things.

Industry Experience

Students have the opportunity to seek a Work Integrated Learning placement with an industry partner, equivalent to one semester of full-time study.

Career Opportunities

This course will prepare you for careers in cyber security, including areas such as network security, digital forensics, vulnerability assessment, security risk assessment, penetration testing, threat hunting, and incident response. Your new job title could be Cyber Security Analyst, Network Security Engineer, Digital Forensic Practitioner, Information Security Auditor, Security Consultant, Software Auditor or Systems Administrator (Security).

Professional Recognition

This course is accredited by the Australian Computer Society.

See more course information —
ecu.edu.au/courses/Y89

"My university life was wonderful. I gained lots of experience, including teaching school students, creating events for my computing cohort through the Computing and Student Security Association, and even providing security consultations to businesses in Western Australia."

Sheida Sabeti
Bachelor of Science (Cyber Security) graduate

Bachelor of Counter Terrorism Security and Intelligence

Indicative ATAR: 70
Minimum Duration: 3 years
Location: Joondalup, Online
Study Mode: Full-time, Part-time

Overview

Want to make the world a safer place? In this course, which offers a choice of eight major subjects, you'll study terrorism and international security, intelligence foundations and much more. You'll learn how to use technology to secure assets, protect critical and national infrastructure and employ security management techniques. And after the first year, you'll specialise in countering terrorism threats.

Majors you can study in this course

- Aviation
- Criminology
- Cyber Security
- Data Science
- Historical and Political Studies
- Law in Business
- Management
- Professional Studies

Career Opportunities

When you graduate, you'll have career options in national security, corporate security, defence, intelligence, government, policing and law enforcement, homeland security, justice, criminology, critical infrastructure protection, threat and risk assessment, security consultancy, corporate intelligence, counter terrorism, and security analysis. Your choice of major subject and possibly a minor subject will influence your specific career direction.

"ECU's great reputation for offering industry recognised courses and job-ready graduates was a key factor in my decision to undertake study here. During my course I got the opportunity to represent the university at two major industry conferences. This allowed me to develop critical networks in Federal and State law enforcement, as well as private industry."

Samuel Bettison
ECU Cybercrime Security and Intelligence graduate

See more course information —
ecu.edu.au/courses/Y14

Majors

Aviation

Interested in entering the aviation industry but in a non-flying role? This major will provide you with a broad professional education and introduction to the core industry activity of flying people and freight from point-to-point.

Criminology

If you have an interest in criminology and justice this major will give you an understanding of the criminal justice system, offenders, policing and corrections in a contemporary environment. It also includes skills required for employment, such as Indigenous cultural responsiveness.

Cyber Security

This major focuses on both the practical and theoretical dimensions of cyber security across a range of areas such as network security and vulnerability assessment, information security, digital forensics, cryptography and ethical hacking.

Data Science

This major focuses on your numeracy and analytical skills. You'll gain statistical expertise in analysing and visualising simple and complex data sets from a variety of sources, such as disease markers, genomic data and business data sets. As a graduate, you'll be competitive in the data science job market in computing, business or science fields.

Historical and Political Studies

In this major, you'll examine the ideas, structures and processes that drive society at both the national and international level. You'll explore the nature of contemporary political challenges and the role of leadership, the media, corporate interests, public opinion and grassroots political movements in framing and addressing these challenges.

Law in Business

A sound understanding of commercial law and the ability to manage legal risk is a skill valued by employers everywhere. In this major, you'll study the foundations of law including legal framework, legal process, legal writing and research, torts and trade practices, competition and consumer protection law. You can also tailor the major to suit your area of interest by choosing three electives.

Management

This major teaches you the skills to take the lead and succeed in managerial positions in any business. There is a focus on organisational behaviour, human resource management, ethics, leadership and strategy. You'll also develop skills in critical and innovative thinking, problem-solving, teamwork and communications to open doors to a variety of employment options.

Professional Studies

In this major you'll study units relating to the corporate environment, including management, business analytics, governance and project management. You'll then be placed for one semester with one of ECU's business and industry partners to undertake a project that will meet specific corporate security objectives. This will enhance your employability opportunities when you graduate.

→ ECU student Claudia got the opportunity to complete an internship at Western Power. Find out more about her experience and how it helped her on her career path:

Bachelor of Science (Cybercrime, Security and Intelligence)

Indicative ATAR: 70

Minimum Duration: 3.5 years

Location: Joondalup*

Study Mode: Full-time, Part-time

*Years 1 and 2 on-campus at ECU. Year 3 on-campus at UoP, UK. Final semester on-campus at ECU.

Overview

This exciting international dual degree involves two and a half years' study at ECU and one at the University of Portsmouth, UK. You'll learn about security risk management, technology for protecting assets, counterterrorism, crime prevention and cybercrime. And you'll be awarded two degrees – an ECU Bachelor of Science (Cybercrime, Security and Intelligence) and a Bachelor of Science (Hons) Counter Terrorism, Intelligence and Cybercrime from the University of Portsmouth.

Career Opportunities

When you graduate, you'll have career options in national security, corporate security, defence, intelligence, government, policing and law enforcement, homeland security, justice, criminology, critical infrastructure protection, threat and risk assessment, security consultancy, corporate intelligence, counter terrorism, and security analysis. Your job title could be as a Security Analyst, Intelligence Analyst, Counter Terrorism Consultant, Security and Risk Manager, Intelligence Officer, Strategic Risk Analyst or an Intelligence Profiler.

"I chose ECU for its connections with industry, commitment to outreach programs and unique specialisations offered."

Elliot Rosignoli
ECU Cybercrime Security and Intelligence student

→ See more course information —
ecu.edu.au/courses/W87

→ Find out about Cybercrime student Jacob Oskam who has just spent a year studying in the UK

Double down on your career

Having a university double degree is like creating your own brand.

Studying a double degree is a great way of keeping your options open and can demonstrate a higher level of expertise to future employers.

A double degree also gives you the flexibility to tailor your study and create your own niche. It's a kind of employability superpower.

Bachelor of Science / Bachelor of Commerce

This double degree equips students with the theory, practical experience, and employability skills to become business professionals and scientists. Researching, analysing and explaining interactions between people, business and their environments are examples of skills that are developed. Practical experience in leadership, teamwork, self-assessment, critical thinking, communication and problem-solving improve career perspectives, providing an industry-relevant learning experience that meets the needs of a variety of complex, competitive and dynamic global environments.

→ See more course information —
ecu.edu.au/courses/W27

Bachelor of Engineering Honours / Bachelor of Science

This double degree program provides students with the opportunity to become qualified engineers with a strong background in a complementary branch of applied science.

There is a growing demand in high-technology industries and research centres for engineers with multidisciplinary skills in technology, management, and relevant sciences. This program broadens the overall knowledge of students in areas which are complementary to their technical skills. It offers a high level of flexibility as students are able to choose from a number of engineering and science specialist areas to select a combination that best suits their personal career aspirations.

→ See more course information —
ecu.edu.au/courses/W32

Bachelor of Engineering (Computer Systems) Honours / Bachelor of Computer Science

While specialising in the engineering discipline areas of electronic systems, computer systems and communication systems, this double degree broadens the overall knowledge of students in areas which are complementary to their engineering skills.

There is a growing demand in high technology industries and research centres, especially in the areas of robotics, data science, cyber security and telecommunications, for engineers with knowledge and professional skills in project management, software development and relevant areas of engineering.

→ See more course information —
ecu.edu.au/courses/Y64

"What surprised me about my course was how much the units relate to the current environment and industry trends and how up-to-date the case studies we cover are."

Leanne Goh
ECU Computer Science student

Postgraduate courses in Science

Postgraduate courses are what you might choose to study after you graduate with a Bachelor degree – for example the Bachelor of Science.

There are different types of postgrad courses and different reasons why people study them.

Some, like Graduate Certificate courses can be completed in a short time, allowing you to add to your existing skills in your field, or even help you change career direction with new skills.

If you think you'd like to explore your chosen field in greater depth, including some research, then a Master or a PhD degree are the postgraduate courses you could study.

Our research aims to find positive solutions to real-world problems.

→ See more course information —
ecu.edu.au/science

Research

For researchers we offer:

Masters programs (2 years*)
A major research project resulting in a thesis, plus some specialist coursework units.

PhD programs (3 years*)
A substantial research project and thesis, available for any research in a range of fields.

PhD programs – Integrated (4 years*)
A substantial research project and thesis, available for any research in a range of fields. ECU encourages interdisciplinary research that may span multiple research fields and Schools.

*Full-time or part-time equivalent.

Research Postgraduate Courses

- Master of Computing and Security by Research
- Master of Science by Research
- Doctor of Philosophy
- Doctor of Philosophy (Integrated)

Coursework

For those with degrees in any discipline (or the required amount of relevant work experience) seeking to upgrade skills or gain qualifications in a new discipline, we offer Graduate Certificate (0.5 years*), Graduate Diploma (1 year*) and Master (2 years*) courses. These flexible courses have been designed to meet the needs of industry, government and consulting sectors. We offer a range of entry pathways into these programs.

Coursework Postgraduate Courses

The following postgraduate coursework courses are on offer:

- Graduate Certificate of Cyber Security
- Graduate Certificate in Data Science
- Graduate Certificate in Environmental Assessment and Management
- Graduate Diploma in Environmental Science
- Master of Computer Science
- Master of Cyber Security
- Master of Data Science
- Master of Environmental Science
- Master of Environmental Studies
- Master of Horticultural Science
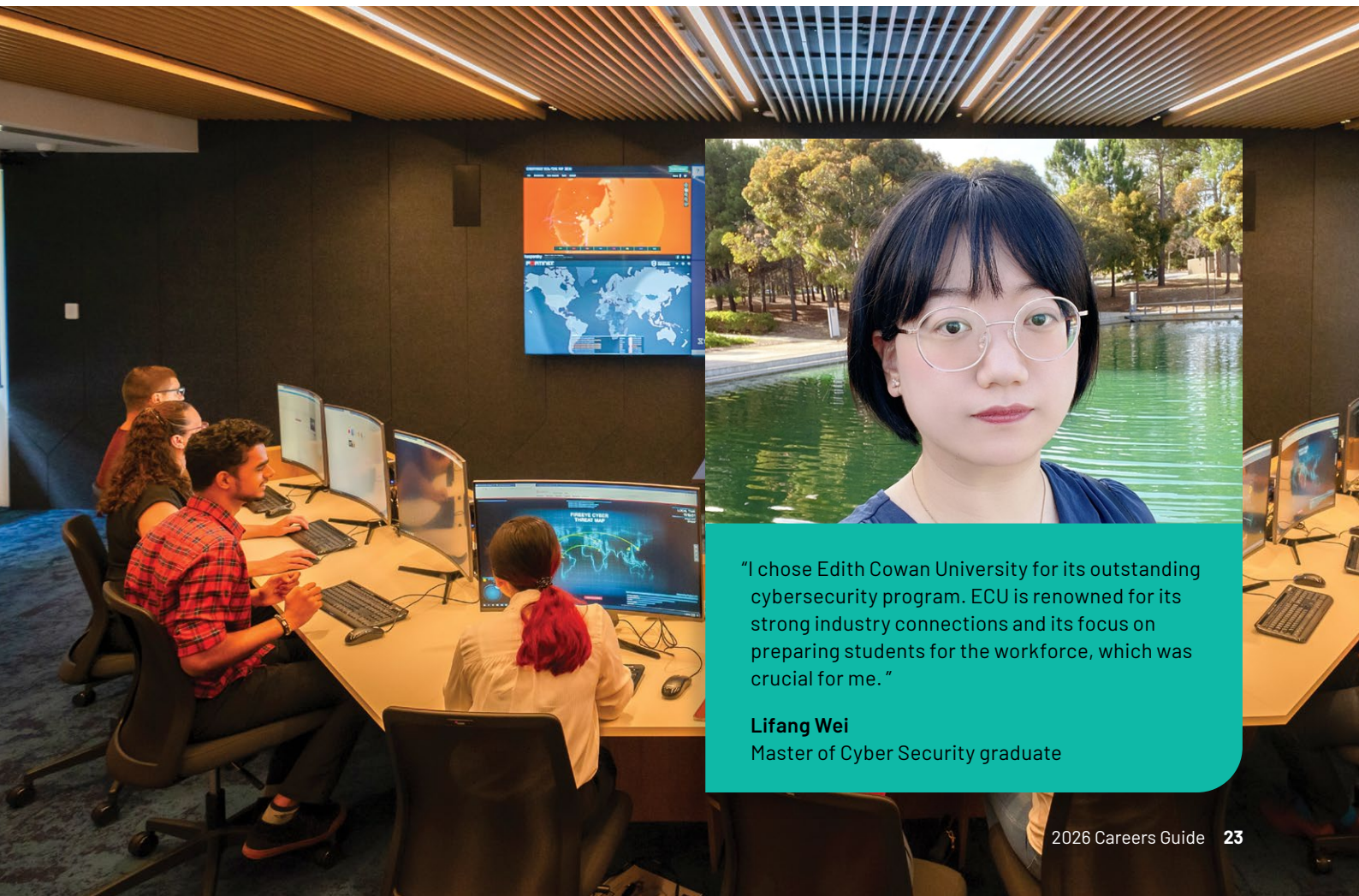
"I chose Edith Cowan University for its outstanding cybersecurity program. ECU is renowned for its strong industry connections and its focus on preparing students for the workforce, which was crucial for me."

Lifang Wei
Master of Cyber Security graduate

What pathway can you take?

If you don't have an ATAR, or you do but got a lower ATAR than expected, you still have pathway options into university courses.

For some of these pathways, you may need to have completed WACE or meet English competency requirements.

University Preparation pathway*

Our free UniPrep course is recommended for students who didn't get the ATAR result they were hoping for, or don't have an ATAR. This short enabling course is even available over the summer break, from November to January, in time to start uni in Semester 1.

→ Find out more —
ecu.edu.au/uniprep

Experience Based Entry pathway

This pathway allows school leavers and other applicants to be considered for entry to an undergraduate course by providing a portfolio of evidence that proves your ability to succeed in higher education.

→ Find out more —
ecu.edu.au/experience

VET pathway

If you've completed or started a VET course at a TAFE or another training organisation, this pathway is for you. A completed Cert IV or higher might make you eligible to go straight into an undergraduate course.

→ Find out more —
ecu.edu.au/pathways

What are you studying this year?

4+ ATAR subjects

ATAR pathway

Apply for an ECU undergraduate course

3+ ATAR subjects & 1 general subject

Experience Based Entry pathway

Apply for an ECU undergraduate course

Certificate IV/ Diploma

VET pathway

Apply for an ECU course

General subjects only

UniPrep pathway

Apply for one of ECU's UniPrep courses

Notes
1. All Year 12 students applying for ECU courses need to apply via TISC, meet English competency requirements and achieve WACE.
2. Depending on your current school, you may qualify for an adjustment to your ATAR (higher). Ask us about this.
* This pathway also applies to Year 12 students completing a recognised university enabling program that leads straight into an undergraduate course.

How to apply

Application options can vary, depending upon your situation and your chosen pathway.

Australian universities have 4 standard categories that cover student applications. These are:

- Recent secondary education (typically most school leavers)

- Work and life experience (people who left secondary education 2+ years ago, haven't studied a VET course and have professional or work experience)

- Vocational education and training (VET) – includes TAFE students and other VET providers

- Higher education student (people who may have studied a higher ed course or completed a bridging or enabling course)

We won't try to explain these here, but we suggest you visit our Applying page and see which category is your best fit. The page also details your different entry requirements and options.

If you're ready to apply now, don't forget to have scanned copies of qualifications, your résumé or other required paperwork, ready to upload.

→ Find out more — **ecu.edu.au/apply**

Become an ECU student in 6 steps

1 **Choose your course**
Consider having a back-up course in case you've applied for a popular course, and it's oversubscribed. You can apply for up to 3 courses at once.

2 **Check course entry requirements**
Some courses have special admission or 'inherent' requirements so check these too.

3 **Check the application date**
Don't miss the deadline for your chosen course(s).

4 **Apply for a scholarship**
These are awarded to all kinds of people, not just high achievers. You can do this when you apply for a course.

5 **Have your paperwork ready and go online**
You'll need scanned copies of other qualifications, your résumé or other required paperwork ready to upload.

6 **Accept your offer**
If you're successful, we'll send you an offer of a place. We hope you accept it and become an ECU student!

If you'd rather talk to us about applying for courses, we'd love to hear from you.

Call 134 328 or drop into your nearest ECU campus.

It all started with Edith Cowan

The Edith Cowan story holds a special place not just at ECU, but in Australian history.

She influenced the course of education in Australia, paving the way for many people to access education they could previously only dream of.

It's why we didn't just take Edith's name. We embraced everything she stood for.

Before she became the first woman elected to an Australian Parliament, everyone told her it would be a tough nut to crack. So she celebrated by giving her fellow members a gumnut brooch, known today as the 'tough nut'.

We love this story so much, we've included the gum leaf as part of our new logo. It is our pledge to carry on her beliefs and continue to transform the way we learn.

Creative thinkers made here.

At a glance

Greening ECU

Edith Cowan University is committed to reducing the environmental impact associated with its operations by conducting its activities in a socially and environmentally responsible manner. This includes implementing strategies and technologies that minimise waste of resources and demonstrate environmentally sensitive development, innovation and continuous improvement.

Disclaimer

Every effort has been made to ensure that the information in this publication is correct at the time of production. The information is subject to change from time to time and the University requests the right to add, vary or discontinue courses and impose limitations on enrolment in any course. The publication constitutes an expression of interest and is not to be taken as a firm offer or understanding. This publication is intended for Australian citizens and permanent residents only. Some information contained in this publication may not be applicable to international students.

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