Computer science

ACU's Bachelor of Computer Science/ Master of Data Science double degree equips you with the technical expertise and theoretical foundation to develop real-world solutions to the challenges of tomorrow.

CRICOS Code: 117399M

Bachelor of Computer Science/ Master of Data Science

Academic requirements
Bachelor: Equivalent to an Australian Year 12 Certificate.

English requirements
IELTS: 6.0 (6.0 W&S, 5.5 L&R)
TOEFL iBT: 60 (21 W, 18 S , 8 R, 7 L)
PTE: 50 (50 W&S, 42 R&L)
CAE: 176 (min 169 in all tests)
ACU: C (63-64%)

Campus
North Sydney

Entry
February, July

Duration
4 years (full-time)

Course structure
320 credit points

Find out more
Scan QR code or got to
acu.edu.au/ computer-science

CRICOS: 00004G | PRV12008
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WHY STUDY THIS PROGRAM?

Fast-track your education: Earn both a Bachelor of Computer Science and a Master of Data Science in just four years of full-time study—faster than completing the degrees separately. This streamlined pathway accelerates your academic and professional journey.

Accelerate your career: Combine core computer science expertise with advanced data science capabilities, gaining the technical breadth and depth to stand out in high-growth, competitive tech fields.

Respond to global tech demand: Technology skills are in high demand across sectors—from healthcare and finance to cybersecurity and AI. In Australia alone, the tech workforce is projected to grow by 200% by 2030, with over 215,000 new roles forecast.*

Master emerging technologies and responsible innovation: Develop future-focused capabilities in software development, artificial intelligence, machine learning, digital twins, and data science, while also building critical expertise in cybersecurity, digital trust, and ethical innovation.

Graduate career-ready: This double degree prepares you for a wide range of in-demand roles, including data scientist, AI engineer, software developer, cybersecurity analyst, digital strategist, and many more across the global tech landscape.

*ACS Australia's Digital Pulse: A new approach to building technology skills, Deloitte, 2023

HOW IS THIS COURSE DIFFERENT TO A BACHELOR OF INFORMATION TECHNOLOGY?

While Information Technology, Computer Science, and Data Science share similarities, each focuses on distinct capabilities:

- Information Technology (IT) is centred on the practical application of technology within organisations. It covers system administration, networking, cybersecurity, and IT project management—preparing graduates to manage and implement tech solutions that support business operations.

- Computer Science provides a technical and theoretical foundation—focusing on programming, algorithms, software development, artificial intelligence, and computing theory. It equips graduates to design, build, and optimise the digital systems that power emerging technologies.

- Data Science is about extracting value from data using scientific methods, statistical modelling, machine learning, and big data tools to uncover insights and support decision-making in complex environments.

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- This vertical double degree combines Computer Science and Data Science with a future-focused lens—embedding emerging technologies like AI, digital twins, extended reality, and ethical innovation into the curriculum. You'll graduate with both deep technical skills and the strategic understanding to lead in industries shaped by rapid digital transformation.

CAREER OUTCOMES

You'll graduate ready for a range of career opportunities, including:

- Software & Application Developer
- Artificial Intelligence & Data Engineer
- Cybersecurity & Information Assurance Specialist
- Systems & Network Infrastructure Architect
- IT Management Strategist
- User Experience Designer
- Business/Data Analyst
- Game Developer

WHY STUDY AT ACU

At ACU, we're committed to more than just education — we're focused on your growth, impact, and global readiness. Our supportive learning environment ensures you have access to academic support, career development, counselling, and financial services throughout your journey.

What sets us apart is our strong focus on emerging technologies and responsible innovation. As a values-driven university, we integrate social responsibility into every course, empowering you to explore and apply technology in ways that drive meaningful change.

You'll gain future-focused skills in areas such as artificial intelligence, digital twins, extended reality, and ethical innovation, while addressing critical challenges in cybersecurity, digital trust, and data governance.

Whether you're collaborating in our Ethical Innovation Hub, tackling real-world projects, or connecting with global partners through research and mobility programs, ACU prepares you to lead with integrity and shape a better digital future.

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