



Australian
National
University

Selection Rank: **85**

UAC Code: **108316E**

Prerequisites: **Mathematics**

Duration: **4 year full-time**

CRICOS Code: **108316E**

Bachelor of Engineering (Honours) in Software Engineering

Built on a multidisciplinary systems approach, the Bachelor of Engineering (Honours) in Software Engineering will prepare you to design and build systems that influence everyday life.

The unique systems engineering approach covers both the technical aspects of professional practice, innovation and research, as well as the complex socio-technical context of everyday applications.

You will apply your lived experience and knowledge to explore approaches ranging from uncertainty and risk, design, modern management practices, ethics and communication.

As part of this program, you will:

- Build software systems that address complex problems faced every day in a number of fields, including transport, communications, finance, medicine, science, entertainment, and the arts.
- Gain first-hand industry experience in your final year research project and build a toolkit of problem solving, analysis and design skills.
- Access experts in the field and develop your own startup to further enhance your innovation and entrepreneurial skills.
- Take part in 60 days of practical work experience.

Degree structure

● Elective course

Year	Semester 1	Semester 2
1	Mathematics and Applications	Foundations of Computing
	Discovering Engineering	Structured Programming
	Programming as Problem Solving	Choose from; Introduction to Mechanics, Introduction to Electronics or Relational Databases
	Discrete Mathematical Models	Elective Course
2	Engineering Design 2: Systems Approaches for Design	Engineering Design 3: Systems Approaches for Analysis
	Introduction to Data Management, Analysis and Security	Software Engineering
	Computer Organisation and Program Execution	Systems, Networks, and Concurrency
	Software Design Methodologies	Elective Course
3	Engineering Design 4A: Systems Approaches for Management	Engineering Design 4B: Systems Approaches for Operations
	Software Engineering Project	Software Engineering Project
	Elective Course	Algorithms
	Elective Course	Elective Course
4	Final year project	Final year project
	Managing Software Quality and Process	Human-Computer Interaction
	Digital Systems and Microprocessors	Elective Course
	Elective Course	Elective Course



Matilda

Bachelor of Engineering (Honours) & Bachelor of Science – Flexible Double Degree

"During my studies I had the opportunity to work with Project Everest Ventures in Timor-Lest on a solar-panel project in the rural and urban community. Getting to work with other engineering and business students from across Australian universities on a project in a different country gave me so much knowledge and really changed my perspective on what I want from a career in engineering."

Careers

Our unique systems engineering approach will equip you with sought after skills. As a qualified Software Engineer, you will be able to apply your expertise across a diverse range of professions and organisations such as Defence and Government, Tech and Startups, Finance, Consulting, Communications and Media, and many more.

Contact us

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ANU College of Engineering and Computer Science**

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Connect with us on social media @anucecs



For the latest admission information and program requirements, visit programandcourses.anu.edu.au