



UNSW Engineering

Bachelor of Engineering (Honours)

(Software Engineering)

What do software engineers do?

The software industry is one of the fastest growing in the world. Software engineers work with processes, methods and tools to design and develop high-quality, reliable software systems used on computers. When you study software engineering at UNSW learn to write code and design programs to meet a need or solve a problem.

Software Engineering workshops are a key feature of this degree; you'll undertake realistic projects working in teams to gain experience in all aspects of software development.

What will your study involve?

Software Engineering is more than simple programming. This degree features foundations in computing studies combined with study in

design and project management to ensure you graduate work-ready. Software Engineering workshops allow students to immerse themselves in realistic projects. You'll experience all aspects of planning and designing, as well as developing secure, reliable and efficient software.

UNSW Computer Science and Engineering

- UNSW Engineering is ranked #1 in Australia for Engineering and Technology, our school of Computer Science and Engineering is ranked #4 in Australia by QS Rankings 2024.
- UNSW Computer Science and Engineering is one of the largest schools of its kind in Australia which provides the most technically challenging computing degrees in the country.
- UNSW Computer Science and Engineering is home to five-time world robot soccer champions, the UNSW 'rUNSWift' team.

Program details

Lowest Selection Rank (2025): 92.00

Duration: Four-year embedded honours degree

Study areas: Computing, Software Engineering, Software Development, Software Process, System Design

Assumed knowledge: Mathematics Extension 1

Portfolio Entry: UNSW offers the Faculty of Engineering Admission Scheme (FEAS) which is a pathway for students interested in studying undergraduate engineering to support their academic results, find out more at unsw.to/feas

Accreditation

Your Bachelor of Engineering (Honours) degree is recognised globally, is accredited with Engineers Australia, and is also acknowledged by the Washington Accord, which lets you work in over 20 countries across the globe upon graduation.

This degree is also accredited by the Australian Computer Society.

Career options

Graduates can pursue careers in software development and computing, software engineers can work in the telecommunications, defence, security

finance, electronics, medical, power and transport industries, as well as in business.

Student Testimonials


"I love solving problems and I think programming is a really great tool for making the world a better place. Although I plan to start my own company one day, at the moment UNSW has been fantastic in getting me as much experience as possible across different fields so I can expand my future opportunities."

Khanh Nguyen,
Software Engineering
(Hons)

Example Study Plan



Year 1		Year 2		Year 3		Year 4	
Term 1	DESN1000 Engineering Design and Innovation	Term 1	SENG2021 Requirements and Design Workshop	Term 1	COMP3311 Database Systems	Term 1	COMP4951 Research Thesis A (4 UoC)
	MATH1081 Discrete Mathematics		COMP2521 Data Structures and Algorithms		SENG3011 Software Engineering Workshop 3		SENG4920 Ethics & Management
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		Free Elective Course		Discipline Elective Course		Discipline Elective Course
Term 2	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 2	COMP2041 Software Construction: Techniques and Tools	Term 2	COMP3142 Software Testing and Quality Assurance	Term 2	COMP4952 Research Thesis B (4 UoC)
	COMP1511 Programming Fundamentals		MATH2400 Finite Mathematics (3 UoC) & MATH2859 Probability, Statistics & Info (3 UoC)		COMP3331 Computer Networks & Applications		Level 4+ Discipline Elective Course
	General Education Course		DESN2000 Engineering Design and Professional Practice		Free Elective Course		Free Elective Course
Term 3	COMP1521 Computer Systems Fundamentals	Term 3	COMP2511 Object-Oriented Design & Programming	Term 3	Discipline Elective Course	Term 3	COMP4953 Research Thesis C (4 UoC)
	COMP1531 Software Engineering Fundamentals		SENG2011 Workshop on Reasoning about Programs		General Education Course		Level 4+ Discipline Elective Course
							Discipline Elective Course

NOTES	You'll be required to complete 60 days of Industrial Training throughout your degree.	 <p>Visit the Degree Finder Page here!</p>
	This degree example is indicative only and subject to change at any time without prior notice. For the latest degree information visit the relevant UNSW Handbook page at www.handbook.unsw.edu.au .	
	UNSW's new 'flex-semester' calendar is scheduled to start in 2028. For more information see https://www.unsw.edu.au/academic-calendar-project	