



UNSW Engineering

Bachelor of Engineering (Honours) (Civil Engineering with Architecture)

What do civil engineers do?

Civil engineers construct, manage and maintain the infrastructure of modern society using mathematics, mechanics, physics and creative problem-solving. Civil engineers work on more than just buildings and bridges, for example tunnels, water supplies, airports and harbours all rely on civil engineers. This degree will build on your Civil Engineering understanding by immersing you in Architecture subjects. You'll be able to appreciate and understand architectural principles and develop your creativity, allowing you to work closely with architects to incorporate these into new and innovative designs.

What will your study involve?

You'll be inspired to become a conceptual thinker with a mix of aesthetic and structural expertise. This degree provides civil engineers with an appreciation and understanding of architectural principles, focusing

on creativity and inventiveness. Civil electives can be chosen from disciplines including structural, geotechnical, transport or water engineering, or engineering construction and management.

Students will graduate qualified and equipped to work with architects and other building professionals to produce integrated and sustainable designs.

UNSW Civil & Environmental Engineering

- 1st in Australia and 24th globally for Civil and Structural Engineering (QS Subject Rankings 2025).
- We have close links with key professional, commercial and industrial organisations, allowing us to offer exciting and innovative student-led projects and industry-based training.
- Our degrees place a strong emphasis on practical design and problem-solving.

Program details

Lowest Selection Rank (2025): 94.00

Duration: Four-year
embedded honours

Study areas: Architecture, Civil
Engineering

Assumed knowledge: HSC level
Mathematics Extension 1, Physics

Accreditation

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

Career options

Graduates can be employed by specialist structural engineering design consultants, construction and contracting companies, federal, state, and local government organisations, airport and harbour authorities, project developers, and management consultancies.

Student Testimonials

"I wanted to be able to build upon my creativity and passion for design while capitalising on my strong mathematical background, and this degree promotes a balance between analytical skills and imagination. Being able to contribute to a project and see its outcome is an extremely satisfying experience."

– Tom LY Banh
Civil Engineering with
Architecture

Example Study Plan



Year 1		Year 2		Year 3		Year 4	
Term 1	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A	Term 1	ENGG2400 Mechanics of Solids	Term 1	CVEN3303 Steel Structures	Term 1	CVEN4050 (6 UoC) Thesis A <u>OR</u> CVEN4951 (4 UoC) Research Thesis A*
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		BENV1010 Communication in the Built Environment		CVEN3501 Water Resources Engineering		ARCH1201 Architectural Design Studio 3
	ARCH1080 Intro to Architecture and Enabling Skills		ARCH1101 Architectural Design Studio 1		Built Environment Elective		CVEN3203 Applied Geotechnics
Term 2	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 2	CVEN2101 Engineering Construction	Term 2	CVEN3304 Concrete Structures	Term 2	CVEN4051 (6 UoC) Thesis B <u>OR</u> CVEN4952 (4 UoC) Research Thesis B*
	BENV1015 History of Design Thinking		CVEN2002 Engineering Computations		CVEN3502 Water and Wastewater Engineering		Built Environment Elective
	ENGG1300 Engineering Mechanics		MATH2018 Engineering Mathematics 2D		ARCH1102 Architectural Design Studio 2		
Term 3	DESN1000 Engineering Design and Innovation	Term 3	CVEN2303 Structural Analysis and Modelling	Term 3	CVEN3202 Soil Mechanics	Term 3	CVEN4953 ^A Research Thesis C ^A (4 UoC) <u>OR</u> Civil Eng Lvl 4 Discipline Elective <u>OR</u> Built Environment Elective
	Lvl 1 Engineering Elective		ENGG2500 Fluid Mechanics for Engineers		CVEN3101 Engineering Operations and Control		CVEN4701 Planning Sustainable Infrastructure
							Civil Eng Lvl 4 Discipline Elective <u>OR</u> Built Environment Elective

NOTES

You'll be required to complete 60 days of Industrial Training throughout your degree.

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>.



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Degree
Finder page
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