Bachelor of Engineering (Honours) / Computer Science (3785)
Environmental Engineering (CVENBH) / Computer Science (COMPA1)
T1 Entry 2025 Sample Plan

UNSW SYDNEY

Year 1		
Term 1	BIOS1301 Ecology, Sustainability and Environmental Science	
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A	
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A	
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	
	COMP1511 Programming Fundamentals	
Term 3	COMP1521 Computer Systems Fundamentals	
	CHEM1011 Chemistry 1A: Atoms, Molecules and Energy	
	DESN1000 Introduction to Engineering Design and Innovation	

Year 2		
Term 1	COMP1531 Software Engineering Fundamentals	
	MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E	
Term 2	COMP2521 Data Structures and Algorithms	
	DESN2000 Engineering Design and Professional Practice	
	CVEN2701 Water and Atmospheric Chemistry	
Term 3	COMP2511 Object-Oriented Design and Programming	
	CEIC2009 Material and Energy Balances in the Chemical Process Industry	
	CVEN1701 Climate Change and Environmental Sustainability	

Year 3		
Term		

ENGG4999

Students can take CHEM1011 or CHEM1811 depending on term offerings.   Students can take alternative thesis options with school approval. Please see the Handbook for available options and adjust study plan accordingly.

Engineering

Bachelor of Engineering (Honours) / Computer Science (3785)
Environmental Engineering (CVENBH) / Computer Science (COMPA1)
T2 Entry 2025 Sample Plan

Year 1

Term 2	COMP1511 Programming Fundamentals
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A
	MATH1131 Mathematics 1A
Term 3	CVEN1701 Climate Change and Environmental Sustainability
	COMP1531 Software Engineering Fundamentals
	DESN1000 Introduction to Engineering Design and Innovation
Term 1	CHEM1011 Chemistry 1A: Atoms, Molecules and Energy OR CHEM1811 Engineering Chemistry 1A
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B

Year 2

Term 2	DESN2000 Engineering Design and Professional Practice
	COMP2521 Data Structures and Algorithms
	COMP1521 Computer Systems Fundamentals
Term 3	CEIC2009 Material and Energy Balances in the Chemical Process Industry
	ENGG2500 Fluid Mechanics for Engineers
Term 1	MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E
	BIOS1301 Ecology, Sustainability and Environmental Science
	Discipline Elective

Year 3

Term 2	CVEN2002 Civil and Environmental Engineering Computations
	CVEN2701 Water and Atmospheric Chemistry
	COMP2511 Object-Oriented Design and Programming
Term 3	CVEN3101 Engineering Operations and Control
	CVEN3202 Soil Mechanics
Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis
	COMP3900 Computer Science Project
	CVEN3203 Applied Geotechnics and Engineering Geology

Year 4

Term 2	CVEN3402 Transport Engineering and Environmental Sustainability
	CVEN3502 Water and Wastewater Engineering
Term 3	CVEN3702 Solid Wastes and Contaminant Transport
	COMP4920 Professional Issues and Ethics in Information Technology
	Computing Elective
Term 1	CVEN4050 Thesis A
	CVEN3501 Water Resources Engineering
	CVEN3701 Environmental Frameworks, Law and Economics

Year 5

Term 2	CVEN4051 Thesis B
	CVEN4701 Planning Sustainable Infrastructure
	Computing Elective
Term 3	Computing Elective
	Computing Elective
	Discipline Elective
Term 1	Discipline Elective
	Discipline Elective

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

Students can take MATH1131 or MATH1141 depending on term offerings. Students can take alternative thesis options with school approval. Please see the Handbook for available options and adjust study plan accordingly.