

Bachelor of Engineering (Honours) / Computer Science (3785)

[Environmental Engineering \(CVENBH\)](#) / [Computer Science \(COMPA1\)](#)

T1 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	BIOS1301 Ecology, Sustainability and Environmental Science	Term 1	COMP1531 Software Engineering Fundamentals	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	CVEN3203 Applied Geotechnics and Engineering Geology	Term 1	CVEN4050 ② Thesis A
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E		COMP4920 Professional Issues and Ethics in Information Technology		CVEN3701 Environmental Frameworks, Law and Economics		Computing Elective
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A				ENGG2500 Fluid Mechanics for Engineers		CVEN3501 Water Resources Engineering		Computing Elective
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	COMP2521 Data Structures and Algorithms	Term 2	CVEN2002 Civil and Environmental Engineering Computations	Term 2	CVEN3502 Water and Wastewater Engineering	Term 2	CVEN4051 Thesis B
	COMP1511 Programming Fundamentals		DESN2000 Engineering Design and Professional Practice		CVEN3402 Transport Engineering and Environmental Sustainability		Discipline Elective		CVEN4701 Planning Sustainable Infrastructure
			CVEN2701 Water and Atmospheric Chemistry		COMP3900 Computer Science Project		Discipline Elective		
Term 3	COMP1521 Computer Systems Fundamentals	Term 3	COMP2511 Object-Oriented Design and Programming	Term 3	CVEN3101 Engineering Operations and Control	Term 3	CVEN3702 Solid Wastes and Contaminant Transport	Term 3	Discipline Elective
	CHEM1011 ① Chemistry 1A: Atoms, Molecules and Energy		CEIC2009 Material and Energy Balances in the Chemical Process Industry		CVEN3202 Soil Mechanics		Computing Elective		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		CVEN1701 Climate Change and Environmental Sustainability				Computing 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
	①Students can take CHEM1011 or CHEM1811 depending on term offerings. ②Students can take alternative thesis options with school approval. Please see the Handbook for available options and adjust study plan accordingly.

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T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	CVEN2002 Civil and Environmental Engineering Computations	Term 2	CVEN3402 Transport Engineering and Environmental Sustainability	Term 2	CVEN4051 Thesis B
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		COMP2521 Data Structures and Algorithms		CVEN2701 Water and Atmospheric Chemistry		CVEN3502 Water and Wastewater Engineering		CVEN4701 Planning Sustainable Infrastructure
	MATH1131 ⓐ Mathematics 1A		COMP1521 Computer Systems Fundamentals		COMP2511 Object-Oriented Design and Programming				Computing Elective
Term 3	CVEN1701 Climate Change and Environmental Sustainability	Term 3	CEIC2009 Material and Energy Balances in the Chemical Process Industry	Term 3	CVEN3101 Engineering Operations and Control	Term 3	CVEN3702 Solid Wastes and Contaminant Transport	Term 3	Computing Elective
	COMP1531 Software Engineering Fundamentals		ENGG2500 Fluid Mechanics for Engineers		CVEN3202 Soil Mechanics		COMP4920 Professional Issues and Ethics in Information Technology		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation						Computing Elective		Discipline Elective
Term 1	CHEM1011 Chemistry 1A: Atoms, Molecules and Energy OR CHEM1811 Engineering Chemistry 1A	Term 1	MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	CVEN4050 Ⓜ Thesis A	Term 1	Discipline Elective
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		BIOS1301 Ecology, Sustainability and Environmental Science		COMP3900 Computer Science Project		CVEN3501 Water Resources Engineering		Discipline Elective
			Discipline Elective		CVEN3203 Applied Geotechnics and Engineering Geology		CVEN3701 Environmental Frameworks, Law and Economics		

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	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.

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T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	CVEN1701 Climate Change and Environmental Sustainability	Term 3	CVEN3101 Engineering Operations and Control	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	Computing Elective
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		COMP2521 Data Structures and Algorithms		CEIC2009 Material and Energy Balances in the Chemical Process Industry		CVEN3202 Soil Mechanics		Computing Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A				ENGG2500 Fluid Mechanics for Engineers		CVEN3702 Solid Wastes and Contaminant Transport		Computing Elective
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	CVEN3203 Applied Geotechnics and Engineering Geology	Term 1	CVEN4050 ^① Thesis A
	COMP1531 Software Engineering Fundamentals		BIOS1301 Ecology, Sustainability and Environmental Science		CVEN3501 Water Resources Engineering		CVEN3701 Environmental Frameworks, Law and Economics		Discipline Elective
	DESN1000 Introduction to Engineering Design and Innovation		CHEM1011 Chemistry 1A: Atoms, Molecules and Energy <u>OR</u> CHEM1811 Engineering Chemistry 1A						
Term 2	COMP1521 Computer Systems Fundamentals	Term 2	COMP2511 Object-Oriented Design and Programming	Term 2	COMP3900 Computer Science Project	Term 2	CVEN4701 Planning Sustainable Infrastructure	Term 2	CVEN4051 Thesis B
	CVEN2002 Civil and Environmental Engineering Computations		CVEN2701 Water and Atmospheric Chemistry		CVEN3402 Transport Engineering and Environmental Sustainability		Discipline Elective		Discipline Elective
			DESN2000 Engineering Design and Professional Practice		CVEN3502 Water and Wastewater Engineering		Computing Elective		Computing Elective

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Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

① Students can take alternative thesis options with school approval. Please see the Handbook for available options and adjust study plan accordingly.