

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

Environmental Engineering (CVENBH) / Computer Science (COMPA1)  
T1 Entry 2024 Sample Plan



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

<b>NOTES</b>	<b>This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.</b>
	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 2024 Sample Plan



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

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

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T3 Entry 2024 Sample Plan



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

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