

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

Civil Engineering (CVENAH) / Computer Science (COMPA1)

T1 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	COMP2521 Data Structures and Algorithms	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 Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		MATH2019 Engineering Mathematics 2E		COMP3900 Computer Science Project		CVEN3303 Steel Structures		Computing Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		ENGG2400 Mechanics of Solids 1				CVEN3501 Water Resources Engineering		Computing Elective
Term 2	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 2	MATS1101 Engineering Materials and Chemistry	Term 2	CVEN2002 Civil and Environmental Engineering Computations	Term 2	CVEN3304 Concrete Structures	Term 2	CVEN4051 Thesis B
	COMP1521 Computer Systems Fundamentals		DESN2000 Engineering Design and Professional Practice		CVEN2101 Engineering Construction		CVEN3401 Sustainable Transport and Highway Engineering		Disciplinary Elective
	COMP1531 Software Engineering Fundamentals		Computing Elective		CVEN2303 Structural Analysis and Modelling		CVEN3502 Water and Wastewater Engineering		Computing Elective
Term 3	ENGG1300 Engineering Mechanics	Term 3	ENGG2500 Fluid Mechanics for Engineers	Term 3	CVEN3101 Engineering Operations and Control	Term 3	Disciplinary Elective	Term 3	Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		COMP2511 Object-Oriented Design and Programming		CVEN3202 Soil Mechanics		Disciplinary Elective		Computing Elective
					COMP4920 Professional Issues and Ethics in Information Technology				

NOTES

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

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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T2 Entry 2024 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	CVEN3304 Concrete Structures	Term 2	CVEN4051 Thesis B
	MATH1131 ^① Mathematics 1A		MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		CVEN2101 Engineering Construction		CVEN3401 Sustainable Transport and Highway Engineering		Computing Elective
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		ENGG2400 Mechanics of Solids 1		CVEN2303 Structural Analysis and Modelling		CVEN3502 Water and Wastewater Engineering		Disciplinary Elective
Term 3	ENGG1300 Engineering Mechanics	Term 3	COMP2521 Data Structures and Algorithms	Term 3	CVEN3101 Engineering Operations and Control	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	Disciplinary Elective
	MATS1101 Engineering Materials and Chemistry		Disciplinary Elective		CVEN3202 Soil Mechanics		Disciplinary Elective		Computing Elective
Term 1	COMP1521 Computer Systems Fundamentals	Term 1	MATH2019 Engineering Mathematics 2E	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	CVEN4050 ^② Thesis A	Term 1	Computing Elective
	COMP1531 Software Engineering Fundamentals		ENGG2500 Fluid Mechanics for Engineers		COMP3900 Computer Science Project		CVEN3303 Steel Structures		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		COMP2511 Object-Oriented Design and Programming		CVEN3203 Applied Geotechnics and Engineering Geology		CVEN3501 Water Resources Engineering		

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	①Students can take MATH1131 or MATH1141 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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T3 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	COMP2521 Data Structures and Algorithms	Term 3	ENGG2500 Fluid Mechanics for Engineers	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	Computing Elective
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MATS1101 Engineering Materials and Chemistry		CVEN3101 Engineering Operations and Control		Computing Elective		Disciplinary Elective
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A				CVEN3202 Soil Mechanics		Disciplinary Elective		
Term 1	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 1	COMP2511 Object-Oriented Design and Programming	Term 1	COMP3900 Computer Science Project	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	CVEN4050 Thesis A
	COMP1531 Software Engineering Fundamentals		MATH2019 Engineering Mathematics 2E		CVEN3501 Water Resources Engineering		CVEN3303 Steel Structures		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		ENGG2400 Mechanics of Solids 1				CVEN3203 Applied Geotechnics and Engineering Geology		Computing Elective
Term 2	COMP1521 Computer Systems Fundamentals	Term 2	CVEN2002 Civil and Environmental Engineering Computations	Term 2	CVEN2303 Structural Analysis and Modelling	Term 2	CVEN3502 Water and Wastewater Engineering	Term 2	CVEN4051 Thesis B
	ENGG1300 Engineering Mechanics		CVEN2101 Engineering Construction		CVEN3304 Concrete Structures		Disciplinary Elective		Disciplinary Elective
			DESN2000 Engineering Design and Professional Practice		CVEN3401 Sustainable Transport and Highway Engineering				Computing Elective

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