Engineering Bachelor of Engineering (Honours) / Science (3767) Civil Engineering (CVENAH) / Physics (PHYSL1) T1 Entry 2025 Sample Plan

Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	ENGG1811 Computing for Engineers	Term 1	PHYS2111 Quantum Physics	Term 1	Employability Experience Course	Term 1	CVEN3203 Applied Geotechnics and Engineering Geology	Term 1	CVEN4050* Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ENGG2400 Mechanics of Solids 1		Physics Elective		CVEN3303 Steel Structures		PHYS3112 Experimental and Computational Physics
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		Science Elective				CVEN3501 Water Resources Engineering		PHYS3113 Thermal Physics and Statistical Mechanics
	SCIF0000 (0 UoC) Introduction to University	Term 2	MATH2121 Theory and Applications of		CVEN2002		CVEN3304	Term 2	CVEN4051
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		Differential Equations <u>OR</u> MATH2221 Higher Theory and Applications of Differential Equations	Term 2	Civil and Environmental Engineering Computations	Term 2	Concrete Structures		Thesis B
Term 2	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B <u>OR</u> PHYS1241		DESN2000 Engineering Design and Professional Practice		CVEN2101 Engineering Construction		CVEN3401 Sustainable Transport and Highway Engineering		PHYS3111 Quantum Mechanics
	Higher Physics 1B (Special) MATS1101 Engineering Materials and Chemistry		PHYS2114 Electromagnetism		CVEN2303 Structural Analysis and Modelling		CVEN3502 Water and Wastewater Engineering		Discipline Elective
	Engineering Materials and Chemistry ENGG1300 Engineering Mechanics		ENGG2500 Fluid Mechanics for Engineers		CVEN3101 Engineering Operations and Control		Discipline Elective	Term 3	Employability Experience Course
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3		Term 3	CVEN3202 Soil Mechanics	Term 3	Discipline Elective		Physics Elective
					SCIF1000 Skills in Science				SCIF3010 (0 UoC) Graduation Portfolio

ES	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.
DTE	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999
ž	*Students can take alternative thesis options with school approval. Please see the Handbook for available options and adjust study plan accordir

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Engineering Bachelor of Engineering (Honours) / Science (3767) Civil Engineering (CVENAH) / Physics (PHYSL1)

T2 Entry 2025 Sample Plan

Year 1			Year 2	Year 3		Year 4		Year 5	
Term 2	ENGG1811 Computing for Engineers	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2 Term 3	CVEN2002 Civil and Environmental Engineering Computations	Term 2 Term 3	CVEN3304 Concrete Structures	Term 2 Term 3	CVEN4051 Thesis B
	MATH1131 Mathematics 1A		PHYS2114 Electromagnetism		CVEN2101 Engineering Construction		CVEN3401 Sustainable Transport and Highway Engineering		PHYS3111 Quantum Mechanics
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		MATH2121 Theory and Applications of Differential Equations <u>OR MATH2221</u> Higher		CVEN2303 Structural Analysis and Modelling		CVEN3502 Water and Wastewater Engineering		Physics Elective
	SCIF0000 (0 UoC) Introduction to University		Theory and Applications of Differential Equations MATH2069		CVEN3101				
	ENGG1300	Term 3	Math2069 Mathematics 2A		Engineering Operations and Control		Employability Experience Course		Discipline Elective
Term	Engineering Mechanics MATS1101		Discipline Elective		CVEN3202 Soil Mechanics		Discipline Elective		Employability Experience Course
3	Engineering Materials and Chemistry				SCIF1000 Skills in Science				Physics Elective
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B <u>OR</u> PHYS1241 Higher Physics 1B (Special)		ENGG2400 Mechanics of Solids 1	Term 1	ENGG2500 Fluid Mechanics for Engineers	Term 1	CVEN4050* Thesis A	Term 1	PHYS3112 Experimental and Computational Physics
Term 1	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 1	PHYS2111 Quantum Physics		CVEN3203 Applied Geotechnics and Engineering Geology		CVEN3303 Steel Structures		PHYS3113 Thermal Physics and Statistical Mechanics
	DESN1000 Introduction to Engineering Design and Innovation		Science Elective				CVEN3501 Water Resources Engineering		SCIF3010 (0 UoC) Graduation Portfolio
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Engineering Bachelor of Engineering (Honours) / Science (3767) Civil Engineering (CVENAH) / Physics (PHYSL1) T3 Entry 2025 Sample Plan

NOTES

Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	MATS1101 Engineering Materials and Chemistry	Term 3	MATH2069 Mathematics 2A		ENGG2500 Fluid Mechanics for Engineers	Term 3	CVEN3202 Soil Mechanics	Term 3	Physics Elective
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		SCIF1000 Skills in Science	Term 3	CVEN3101 Engineering Operations and Control		Employability Experience Course		Discipline Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A				CVEN2303 Structural Analysis and Modelling		Physics Elective		Discipline Elective
	SCIF0000 (0 UoC) Introduction to University	Term 1	PHYS2111		CVEN3501	_	CVEN3303 Steel Structures		CVEN4050*
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		Quantum Physics		Water Resources Engineering				Thesis A
Term	PHYS1221 Physics 1B <u>OR</u>		MATH2018 Engineering Mathematics 2D ORTermMATH2019 Engineering Mathematics 2E1	Employability Experience Course	Term 1	CVEN3203 Applied Geotechnics and Engineering Geology	Term 1	PHYS3112 Experimental and Computational Physics	
1	PHYS1231 Higher Physics 1B DESN1000 Introduction to Engineering Design and		ENGG2400 Mechanics of Solids 1						PHYS3113 Thermal Physics and Statistical Mechanics
	Innovation		CVEN2002 Civil and Environmental Engineering Computations		PHYS2114		CVEN3502		CVEN4051
	ENGG1811 Computing for Engineers			Electromagnetism		Water and Wastewater Engineering		Thesis B	
Term 2	ENGG1300 Engineering Mechanics	Term 2	CVEN2101 Engineering Construction	Term 2	CVEN3304 Concrete Structures	Term 2	PHYS3111 Quantum Mechanics	Term 2	Discipline Elective
			DESN2000 Engineering Design and Professional Practice		MATH2121 Theory and Applications of Differential Equations <u>OR MATH2221 Higher</u> Theory and Applications of Differential Equations		CVEN3401 Sustainable Transport and Highway Engineering		SCIF3010 (0 UoC) Graduation Portfolio

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

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