Engineering

Bachelor of Engineering (Honours) / Computer Science (3785) <u>Telecommunications (TELEAH) / Computer Science (COMPA1)</u> T1 Entry 2025 Sample Plan

Year 1		Year 2		Year 3			Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	ELEC2134 Circuits and Signals	Term 1	ELEC3115 Electromagnetic Engineering		COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	ELEC4951 Research Thesis A	
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ELEC2141 Digital Circuit Design		ELEC3106 Electronics	Term 1	TELE3113 Analogue and Digital Communications		Computing Elective	
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		ELEC1111 Electrical Circuit Fundamentals		COMP2521 Data Structures and Algorithms		ELEC4122 Strategic Leadership and Ethics		Computing Elective	
	COMP1531 Software Engineering Fundamentals	Term 2	DESN2000 Engineering Design and Professional Practice		ELEC3117 Electrical Engineering Design		Discipline Elective	Term 2	ELEC4952 Research Thesis B	
Term 2	COMP1521 Computer Systems Fundamentals		ELEC2133 Analogue Electronics	Term 2	ELEC3114 Control Systems	Term 2	Breadth Elective		Discipline Elective	
			MATH2099 Mathematics 2B						Discipline Elective	
	PHYS1231 Higher Physics 1B	Term 3	MATH2069 Mathematics 2A		TELE3118 Network Technologies		COMP3900 Computer Science Project	Term 3	ELEC4953 Research Thesis C	
Term 3	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		COMP2511 Object-Oriented Design and Programming	Term 3	ELEC4123 Electrical Design Proficiency	Term 3	COMP4920 Professional Issues and Ethics in Information Technology		Computing Elective	
	DESN1000 Introduction to Engineering Design and Innovation				ELEC3104 Digital Signal Processing		TELE3119 Trusted Networks		Computing Elective	

IES	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.
LON	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

Information is correct as of October 2024 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G



Engineering

Bachelor of Engineering (Honours) / Computer Science (3785) <u>Telecommunications (TELEAH) / Computer Science (COMPA1)</u> T2 Entry 2025 Sample Plan

Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP2521 Data Structures and Algorithms	Term 2	ELEC2133 Analogue Electronics	Term 2	ELEC3117 Electrical Engineering Design	Term 2	ELEC4951 Research Thesis A
	MATH1131① Mathematics 1A		DESN2000 Engineering Design and Professional Practice		MATH2099 Mathematics 2B		ELEC3114 Control Systems		Computing Elective
	PHYS1121@ Physics 1A								Computing Elective
Term 3	COMP1531 Software Engineering Fundamentals	Term 3	MATH2069 Mathematics 2A		COMP4920 Professional Issues and Ethics in Information Technology	Term 3	TELE3118 Network Technologies	Term 3	ELEC4952 Research Thesis B
	COMP1521 Computer Systems Fundamentals		ELEC2141 Digital Circuit Design	Term 3	ELEC3104 Digital Signal Processing		TELE3119 Trusted Networks		Discipline Elective
			ELEC1111 Electrical Circuit Fundamentals		Computing Elective		ELEC4123 Electrical Design Proficiency		Discipline Elective
	PHYS1231 Higher Physics 1B		COMP2511 Object-Oriented Design and Programming		ELEC3115 Electromagnetic Engineering	Term 1	TELE3113 Analogue and Digital Communications	Term 1	ELEC4953 Research Thesis C
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	ELEC2134 Circuits and Signals	Term 1	ELEC4122 Strategic Leadership and Ethics		Computer Science Project		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		Breadth Elective	ELEC3106 Electronics		COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis		Computing Elective	

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	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999							
	OStudents can take MATH1131 or MATH1141 depending on term offerings @Students can take PHYS1121 or PHYS1131 depending on term offerings []							

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Engineering

Bachelor of Engineering (Honours) / Computer Science (3785) <u>Telecommunications (TELEAH) / Computer Science (COMPA1)</u> T3 Entry 2025 Sample Plan

Year 1		Year 2		Year 3		Year 4		Year 5	
	COMP1511 Programming Fundamentals	Term 3	COMP2521 Data Structures and Algorithms	Term 3	COMP2511 Object-Oriented Design and Programming		TELE3118 Network Technologies	Term 3	ELEC4951 Research Thesis A
Term 3	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		MATH2069 Mathematics 2A		ELEC3104 Digital Signal Processing	Term 3	TELE3119 Trusted Networks		Computing Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		ELEC2133 Analogue Electronics				ELEC4123 Electrical Design Proficiency		Computing Elective
	PHYS1231 Higher Physics 1B		ELEC1111 Electrical Circuit Fundamentals		COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	COMP4920 Professional Issues and Ethics in Information Technology	Term 1	ELEC4952 Research Thesis B
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	ELEC2134 Circuits and Signals	Term 1	ELEC3115 Electromagnetic Engineering		TELE3113 Analogue and Digital Communications		Discipline Elective
	DESN1000 Introduction to Engineering Design and Innovation		ELEC2141 Digital Circuit Design		ELEC3106 Electronics		ELEC4122 Strategic Leadership and Ethics		Computing Elective
	COMP1521 Computer Systems Fundamentals		DESN2000 Engineering Design and Professional Practice	Term 2	ELEC3117 Electrical Engineering Design		COMP3900 Computer Science Project		ELEC4953 Research Thesis C
Term 2	COMP1531 Software Engineering Fundamentals	Term 2	MATH2099 Mathematics 2B		ELEC3114 Control Systems	Term 2	Discipline Elective	Term 2	Computing Elective
					Breadth Elective				Computing Elective

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

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