

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



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	ELEC1111 Electrical Circuit Fundamentals	Term 1	ELEC2134 Circuits and Signals	Term 1	ELEC3106 Electronics	Term 1	TELE3113 Analogue and Digital Communications	Term 1	ELEC4951 Research Thesis A
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		ELEC2141 Digital Circuit Design		ELEC3115 Electromagnetic Engineering		ELEC4122 Strategic Leadership and Ethics		PHYS3112 Experimental and Computational Physics
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		PHYS2111 Quantum Physics		MATH2301 Mathematical Computing				PHYS3113 Thermal Physics and Statistical Mechanics
	SCIF0000 (0 UoC) Introduction to University								
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	MATH2099 Mathematics 2B	Term 2	ELEC3114 Control Systems	Term 2	ELEC4952 Research Thesis B
	PHYS1231 Higher Physics 1B		PHYS2114 Electromagnetism		ELEC3105 Electrical Energy		PHYS3111 Quantum Mechanics		Employability Experience Course
			ELEC2133 Analogue Electronics		ELEC3117 Electrical Engineering Design		Discipline Elective		Physics Elective
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	COMP1521 Computer Systems Fundamentals	Term 3	ELEC3104 Digital Signal Processing	Term 3	ELEC4123 Electrical Design Proficiency	Term 3	ELEC4953 Research Thesis C
	MATH2069 Mathematics 2A		Employability Experience Course		SCIF1000 Skills in Science		Discipline Elective		Science Elective
	COMP1511 Programming Fundamentals						Disciplinary / Breadth Elective		Physics Elective
									SCIF3010 (0 UoC) Graduation Portfolio

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

Bachelor of Engineering (Honours) / Science (3767)
Electrical Engineering (ELECAH) / Physics (PHYSL1)
T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	MATH1131① Mathematics 1A	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	MATH2099 Mathematics 2B	Term 2	ELEC3105 Electrical Energy	Term 2	ELEC4951 Research Thesis A
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		COMP1521 Computer Systems Fundamentals		PHYS2114 Electromagnetism		ELEC3114 Control Systems		PHYS3111 Quantum Mechanics
	SCIF0000 (0 UoC) Introduction to University				ELEC2133 Analogue Electronics		ELEC3117 Electrical Engineering Design		Employability Experience Course
Term 3	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 3	MATH2069 Mathematics 2A	Term 3	Employability Experience Course	Term 3	ELEC3104 Digital Signal Processing	Term 3	ELEC4952 Research Thesis B
	PHYS1231 Higher Physics 1B		SCIF1000 Skills in Science		Discipline Elective		ELEC4123 Electrical Design Proficiency		Discipline Elective
	COMP1511 Programming Fundamentals		ELEC2134 Circuits and Signals						Disciplinary / Breadth Elective
Term 1	ELEC1111 Electrical Circuit Fundamentals	Term 1	MATH2301 Mathematical Computing	Term 1	ELEC3115 Electromagnetic Engineering	Term 1	ELEC3106 Electronics	Term 1	ELEC4953 Research Thesis C
	DESN1000 Introduction to Engineering Design and Innovation		PHYS2111 Quantum Physics		Physics Elective		TELE3113 Analogue and Digital Communications		PHYS3112 Experimental and Computational Physics
	ELEC2141 Digital Circuit Design		Physics Elective		Science Elective		ELEC4122 Strategic Leadership and Ethics		PHYS3113 Thermal Physics and Statistical Mechanics
									SCIF3010 (0 UoC) Graduation Portfolio

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

Bachelor of Engineering (Honours) / Science (3767)
Electrical Engineering (ELECAH) / Physics (PHYSL1)
T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	MATH2069 Mathematics 2A	Term 3	ELEC3104 Digital Signal Processing	Term 3	ELEC4123 Electrical Design Proficiency	Term 3	ELEC4951 Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		COMP1521 Computer Systems Fundamentals		SCIF1000 Skills in Science		Employability Experience Course		Discipline Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A								Discipline Elective
	SCIF0000 (0 UoC) Introduction to University								
Term 1	DESN1000 Introduction to Engineering Design and Innovation	Term 1	ELEC2134 Circuits and Signals	Term 1	ELEC3106 Electronics	Term 1	ELEC4122 Strategic Leadership and Ethics	Term 1	ELEC4952 Research Thesis B
	ELEC1111 Electrical Circuit Fundamentals		ELEC3115 Electromagnetic Engineering		TELE3113 Analogue and Digital Communications		Science Elective		PHYS3112 Experimental and Computational Physics
	ELEC2141 Digital Circuit Design		MATH2301 Mathematical Computing		PHYS2111 Quantum Physics		Disciplinary / Breadth Elective		PHYS3113 Thermal Physics and Statistical Mechanics
Term 2	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	PHYS2114 Electromagnetism	Term 2	ELEC3117 Electrical Engineering Design	Term 2	ELEC4953 Research Thesis C
	PHYS1231 Higher Physics 1B		ELEC2133 Analogue Electronics		ELEC3105 Electrical Energy		PHYS3111 Quantum Mechanics		Physics Elective
			MATH2099 Mathematics 2B		ELEC3114 Control Systems		Physics Elective		Employability Experience Course
								SCIF3010 (0 UoC) Graduation Portfolio	

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