

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

[Robotics and Mechatronic Engineering \(MTRNBH\)](#) / [Computer Science \(COMPA1\)](#)

T1 Entry 2025 Sample Plan



Year 1	
Term 1	COMP1511 Programming Fundamentals
	MATH1131

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T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP1521 Computer Systems Fundamentals	Term 2	COMP2511 Object-Oriented Design and Programming	Term 2	MTRN3100 Robot Design
	MATH1131 Mathematics 1A		ENGG1300 Engineering Mechanics		COMP3900 Computer Science Project		MTRN4230 Robotics
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MMAN1130 Design and Manufacturing		DESN3000 Strategic Design Innovation		Computing Elective
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	Term 3	MMAN2300 Engineering Mechanics 2	Term 3	MTRN3500 Computing Applications in Mechatronics Systems
	COMP1531 Software Engineering Fundamentals		DESN2000 Engineering Design and Professional Practice		MTRN2500 Computing for Mechatronic Engineers		Recommended Discipline Elective
Term 1	ELEC1111 Electrical Circuit 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	MTRN4010 Advanced Autonomous Systems
	ELEC2141 Digital Circuit Design		ENGG2400 Mechanics of Solids 1 <u>OR</u> ENGG2500 Fluid Mechanics for Engineers <u>OR</u> MMAN2700 Thermodynamics		MTRN3210 Feedback and Control Systems		COMP4920
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		MATH2089 Numerical Methods and Statistics		MTRN3020 Modelling and Control of Mechatronic Systems		

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T3 Entry 2025 Sample Plan



Year 1		Year 2	
Term 3	COMP1511 Programming Fundamentals	Term 3	
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		
	ELEC1111 Electrical Circuit Fundamentals		
	ELEC2141 Digital Circuit Design		
Term 2	DESN1000 Introduction to Engineering Design and Innovation		
	ENGG1300 Engineering Mechanics		