Engineering

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

Aerospace Engineering (AEROAH) / Computer Science (COMPA1)

T1 Entry 2025 Sample Plan

Year 1	
Term 1	**COMP1511** Programming Fundamentals
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	COMP1531 Software Engineering Fundamentals
	COMP1521 Computer Systems Fundamentals
Term 3	**DESN1000** Introduction to Engineering Design and Innovation
	ENGG1300 Engineering Mechanics

Year 2	
Term 1	**MATH2019** Engineering Mathematics 2E
	COMP2521 Data Structures and Algorithms
	ELEC1111 Electrical Circuit Fundamentals
Term 2	**MMAN1130** Design and Manufacturing
	ENGG2400 Mechanics of Solids 1
Term 3	**ENGG2500** Fluid Mechanics for Engineers
	DESN2000 Engineering Design and Professional Practice
	MMAN2300 Engineering Mechanics 2

Year 3	
Term 1	**MATH2089** Numerical Methods and Statistics
	MMAN2700 Thermodynamics
	MMAN3200 Linear Systems and Control
Term 2	**AERO3110** Aerospace Design 1
	DESN3000 Strategic Design Innovation
Term 3	**COMP3900** Computer Science Project
	COMP2511 Object-Oriented Design and Programming
	COMP3121 Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis

Year 4	
Term 1	**AERO3410** Aerospace Structures
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion
Term 2	**Computing Elective**
	Computing Elective
Term 3	**AERO4110** Aerospace Design 2
	COMP4920 Professional Issues and Ethics in Information Technology
	Computing Elective

Year 5	
Term 1	**MMAN4951** Research Thesis A
	AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics
	Computing Elective
Term 2	**MMAN4952** Research Thesis B
	Computing Elective
	Discipline Elective
Term 3	**MMAN4953** Research Thesis C
	Recommended Discipline Elective*
	Discipline Elective

NOTES

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

***At least 6 UOC of discipline electives must be chosen from the "recommended discipline elective" list.**

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.
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Engineering

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

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T2 Entry 2025 Sample Plan

Year 1	
Term 2	**COMP1511** Programming Fundamentals
	MATH1131① Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
Term 3	**MMAN1130** Design and Manufacturing
	ENGG1300 Engineering Mechanics
	DESN1000 Introduction to Engineering Design and Innovation
Term 1	**COMP1531** Software Engineering Fundamentals
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B

Year 2	
Term 2	**COMP2521** Data Structures and Algorithms
	ENGG2400 Mechanics of Solids 1
	COMP1521 Computer Systems Fundamentals
Term 3	**DESN2000** Engineering Design and Professional Practice
	ELEC1111 Electrical Circuit Fundamentals
	ENGG2500 Fluid Mechanics for Engineers
Term 1	**MATH2019** Engineering Mathematics 2E
	MATH2089 Numerical Methods and Statistics

Year 3	
Term 2	**MMAN2300** Engineering Mechanics 2
	AERO3110 Aerospace Design 1
Term 3	**COMP3900** Computer Science Project
	COMP4920 Professional Issues and Ethics in Information Technology
	MMAN2700 Thermodynamics
Term 1	**AERO3410** Aerospace Structures
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion

Year 4	
Term 2	**MMAN3200** Linear Systems and Control
	COMP2511 Object-Oriented Design and Programming
	DESN3000 Strategic Design Innovation
Term 3	**AERO4110** Aerospace Design 2
	Computing Elective
	Computing Elective
Term 1	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis
	AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics

Year 5	
Term 2	**MMAN4951** Research Thesis A
	Computing Elective
	Discipline Elective*
Term 3	**MMAN4952** Research Thesis B
	Discipline Elective
	Computing Elective
Term 1	**MMAN4953** Research Thesis C
	Discipline Elective
	Computing Elective

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

①Students can take MATH1131 or MATH1141 depending on term offerings. *At least 6 UOC of discipline electives must be chosen from the "recommended discipline elective" list.

Engineering

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T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 3	**COMP1511** Programming Fundamentals	**DESN1000** Introduction to Engineering Design and Innovation	**DESN2000** Engineering Design and Professional Practice	**COMP3900** Computer Science Project	**MMAN4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**ELEC1111** Electrical Circuit Fundamentals	**MATH2089** Numerical Methods and Statistics	**COMP4920** Professional Issues and Ethics in Information Technology	**AERO4110** Aerospace Design 2
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**Discipline Elective**	**MMAN2700** Thermodynamics	**Discipline Elective***	**Computing Elective**
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MATH2019** Engineering Mathematics 2E	**AERO3410** Aerospace Structures	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**MMAN4952** Research Thesis B
	COMP1531 Software Engineering Fundamentals	**ENGG2400** Mechanics of Solids 1	**AERO3630** Aerodynamics	**MMAN3200** Linear Systems and Control	**AERO4620** Dynamics of Aerospace Vehicles, Systems and Avionics
		ENGG2500 Fluid Mechanics for Engineers	**AERO3660** Flight Performance and Propulsion		**Computing Elective**
Term 2	**COMP1521** Computer Systems Fundamentals	**MMAN2300** Engineering Mechanics 2	**DESN3000** Strategic Design Innovation	**AERO3110** Aerospace Design 1	**MMAN4953** Research Thesis C
	ENGG1300 Engineering Mechanics	**COMP2521** Data Structures and Algorithms	**COMP2511** Object-Oriented Design and Programming	**Computing Elective**	**Computing Elective**
	MMAN1130 Design and Manufacturing			**Computing Elective**	**Discipline Elective**

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

***At least 6 UOC of discipline electives must be chosen from the "recommended discipline elective" list.**

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