Engineering

Bachelor of Engineering (Honours) / Science (3767)

Aerospace Engineering (AEROAH) / Mathematics (MATHM1)

T1 Entry 2025 Sample Plan

Year 1	
Term 1	**DESN1000** Introduction to Engineering Design and Innovation
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
	SCIF0000 (0 UoC) Introduction to University
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	MMAN1130 Design and Manufacturing
Term 3	**ENGG1300** Engineering Mechanics
	ELEC1111 Electrical Circuit Fundamentals
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A

Year 2	
Term 1	**MMAN2700** Thermodynamics
	MATH2301 Mathematical Computing
Term 2	**ENGG2400** Mechanics of Solids 1
	MATH2501 Linear Algebra OR **MATH2601** Higher Linear Algebra
	MATH2801 Theory of Statistics OR **MATH2901** Higher Theory of Statistics
Term 3	**ENGG2500** Fluid Mechanics for Engineers
	DESN2000 Engineering Design and Professional Practice
	MMAN2300 Engineering Mechanics 2

Year 3	
Term 1	**Lvl 3 Non-Statistics Prescribed Elective**
	Lvl 3 Maths Prescribed Elective
Term 2	**AERO3110** Aerospace Design 1
	DESN3000 Strategic Design Innovation
	MMAN3200 Linear Systems and Control
Term 3	**MATH2521** Complex Analysis OR **MATH2621** Higher Complex Analysis
	SCIF1000 Skills in Science
	Employability Experience Course

Year 4	
Term 1	**AERO3410** Aerospace Structures
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion
Term 2	**MATH2011** Several Variable Calculus OR **MATH2111 Higher** Several Variable Calculus
	MATH2121 Theory and Applications of Differential Equations OR **MATH2221** Higher Theory and Applications of Differential Equations
Term 3	**AERO4110** Aerospace Design 2
	Science Elective
	Employability Experience Course

Year 5	
Term 1	**MMAN4951** Research Thesis A
	AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics
	Science Elective
Term 2	**MMAN4952** Research Thesis B
	Lvl 3 Non-Statistics Prescribed Elective
	Discipline Elective
Term 3	**MMAN4953** Research Thesis C
	SCIF3010 (0 UoC) Graduation Portfolio
	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.**

Engineering

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T2 Entry 2025 Sample Plan

Year 1	
Term 2	**MATH1131** Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A
	SCIF0000 (0 UoC) Introduction to University
Term 3	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	ENGG1300 Engineering Mechanics
	DESN1000 Introduction to Engineering Design and Innovation
Term 1	**ELEC1111** Electrical Circuit Fundamentals
	Science Elective

Year 2	
Term 2	**ENGG2400** Mechanics of Solids 1
	MMAN1130 Design and Manufacturing
	MATH2501 Linear Algebra OR **MATH2601** Higher Linear Algebra
Term 3	**DESN2000** Engineering Design and Professional Practice
	ENGG2500 Fluid Mechanics for Engineers
	MMAN2300 Engineering Mechanics 2
Term 1	**MMAN2700** Thermodynamics
	MATH2301 Mathematical Computing

Year 3	
Term 2	**AERO3110** Aerospace Design 1
	DESN3000 Strategic Design Innovation
	MMAN3200 Linear Systems and Control
Term 3	**MATH2521** Complex Analysis OR **MATH2621** Higher Complex Analysis
	Science Elective
Term 1	**AERO3410** Aerospace Structures
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion

Year 4	
Term 2	**MATH2011** Several Variable Calculus OR **MATH2111 Higher** Several Variable Calculus
	MATH2801 Theory of Statistics OR **MATH2901** Higher Theory of Statistics
	MATH2121 Theory and Applications of Differential Equations OR **MATH2221** Higher Theory and Applications of Differential Equations
Term 3	**AERO4110** Aerospace Design 2
	SCIF1000 Skills in Science
	Lvl 3 Maths Prescribed Elective
Term 1	**AERO4620** Dynamics of Aerospace Vehicles, Systems and Avionics
	Lvl 3 Non-Statistics Prescribed Elective

Year 5	
Term 2	**MMAN4951** Research Thesis A
	Lvl 3 Non-Statistics Prescribed Elective
	Discipline Elective*
Term 3	**MMAN4952** Research Thesis B
	Employability Experience Course
	Discipline Elective
Term 1	**MMAN4953** Research Thesis C
	SCIF3010 (0 UoC) Graduation Portfolio
	Discipline Elective
	Employability Experience Course

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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.**

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

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T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 3	**ENGG1300** Engineering Mechanics	**ENGG2500** Fluid Mechanics for Engineers	**Science Elective**	**SCIF1000** Skills in Science	**MMAN4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**DESN2000** Engineering Design and Professional Practice	**Employability Experience Course**	**Lvl 3 Non-Statistics Prescribed Elective**	**AERO4110** Aerospace Design 2
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MATH2521** Complex Analysis OR **MATH2621** Higher Complex Analysis		**Discipline Elective**	**Recommended Discipline Elective***
	SCIF0000 (0 UoC) Introduction to University				
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MMAN2700** Thermodynamics	**AERO3410** Aerospace Structures	**Lvl 3 Non-Statistics Prescribed Elective**	**MMAN4952** Research Thesis B
	ELEC1111 Electrical Circuit Fundamentals	**MATH2301** Mathematical Computing	**AERO3630** Aerodynamics	**Lvl 3 Maths Prescribed Elective**	**AERO4620** Dynamics of Aerospace Vehicles, Systems and Avionics
	DESN1000 Introduction to Engineering Design and Innovation		**AERO3660** Flight Performance and Propulsion		**Employability Experience Course**
Term 2	**MMAN1130** Design and Manufacturing	**MMAN2300** Engineering Mechanics 2	**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics	**DESN3000** Strategic Design Innovation	**MMAN4953** Research Thesis C
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**ENGG2400** Mechanics of Solids 1	**MATH2011** Several Variable Calculus OR **MATH2111 Higher** Several Variable Calculus	**AERO3110** Aerospace Design 1	**SCIF3010** (0 UoC) Graduation Portfolio
		MATH2501 Linear Algebra OR **MATH2601** Higher Linear Algebra	**MATH2121** Theory and Applications of Differential Equations OR **MATH2221** Higher Theory and Applications of Differential Equations	**MMAN3200** Linear Systems and Control	**Science 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.**