Engineering
Bachelor of Engineering (Honours) / Science (3767)
Aerospace Engineering (AEROAH) / Materials Science (MATSB1)
T1 Entry 2025 Sample Plan

UNSW SYDNEY

	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
	MATH2019 Engineering Mathematics 2E
	MATS1192 Introduction to Materials Science and Engineering
Term 2	**ENGG2400** Mechanics of Solids 1
	MATS2004 Mechanical Behaviour of Materials
	CHEM1011 Chemistry 1A: Atoms, Molecules and Energy
Term 3	**DESN2000** Engineering Design and Professional Practice
	MMAN2300 Engineering Mechanics 2

	Year 3
Term 1	**MATS2001** Physical Properties of Materials
	MATS2003 Materials Characterisation
	AERO3410 Aerospace Structures
Term 2	**AERO3110** Aerospace Design 1
	DESN3000 Strategic Design Innovation
	MMAN3200 Linear Systems and Control
Term 3	**ENGG2500** Fluid Mechanics for Engineers
	MATH2089 Numerical Methods and Statistics

	Year 4
Term 1	**MATS3001** Micromechanisms of Mechanical Behaviour of Metals
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion
Term 2	**MATS2008** Thermodynamics and Phase Equilibria
	Recommended Discipline Elective*
Term 3	**MATS2009** Transport Processes in Materials Engineering
	SCIF1000 Skills in Science
	Employability Experience Course

	Year 5
Term 1	**MMAN4951** Research Thesis A
	AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics
	MATS3002 Fundamentals of Ceramic Processing
Term 2	**MMAN4952** Research Thesis B
	MATS3004 Polymer Science and Engineering 1
	Employability Experience Course
Term 3	**MMAN4953** Research Thesis C
	SCIF3010 (0 UoC) Graduation Portfolio
	AERO4110 Aerospace Design 2
	Discipline Elective

NOTES

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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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T2 Entry 2025 Sample Plan

Year 1

Term	Course
Term 2	**MATH1131** Mathematics 1A
Term 2	**PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A
Term 2	**ENGG1811** Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A
Term 2	**SCIF0000** (0 UoC) Introduction to University
Term 3	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
Term 3	**ENGG1300** Engineering Mechanics
Term 3	**DESN1000** Introduction to Engineering Design and Innovation
Term 1	**ELEC1111** Electrical Circuit Fundamentals
Term 1	**MATS1192** Introduction to Materials Science and Engineering

Year 2

Term	Course
Term 2	**ENGG2400** Mechanics of Solids 1
Term 2	**MMAN1130** Design and Manufacturing
Term 2	**MATS2004** Mechanical Behaviour of Materials
Term 3	**DESN2000** Engineering Design and Professional Practice
Term 3	**ENGG2500** Fluid Mechanics for Engineers
Term 3	**MMAN2300** Engineering Mechanics 2
Term 1	**CHEM1011** Chemistry 1A: Atoms, Molecules and Energy OR **CHEM1031** Higher Chemistry 1A: Atoms, Molecules and Energy
Term 1	**MATS2003** Materials Characterisation

Year 3

Term	Course
Term 2	**MATS2008** Thermodynamics and Phase Equilibria
Term 2	**Discipline Elective**
Term 3	**MATH2089** Numerical Methods and Statistics
Term 3	**MATS2009** Transport Processes in Materials Engineering
Term 3	**MMAN2700** Thermodynamics
Term 1	**MATS2001** Physical Properties of Materials
Term 1	**MATS3001** Micromechanisms of Mechanical Behaviour of Metals
Term 1	**MATH2019** Engineering Mathematics 2E

Year 4

Term	Course
Term 2	**AERO3110** Aerospace Design 1
Term 2	**DESN3000** Strategic Design Innovation
Term 2	**MMAN3200** Linear Systems and Control
Term 3	**SCIF1000** Skills in Science
Term 3	**Employability Experience Course**
Term 1	**AERO3410** Aerospace Structures
Term 1	**AERO3630** Aerodynamics
Term 1	**AERO3660** Flight Performance and Propulsion

Year 5

Term	Course
Term 2	**MMAN4951** Research Thesis A
Term 2	**MATS3004** Polymer Science and Engineering 1
Term 2	**Recommended Discipline Elective***
Term 3	**MMAN4952** Research Thesis B
Term 3	**AERO4110** Aerospace Design 2
Term 3	**Employability Experience Course**
Term 1	**MMAN4953** Research Thesis C
Term 1	**AERO4620** Dynamics of Aerospace Vehicles, Systems and Avionics
Term 1	**MATS3002** Fundamentals of Ceramic Processing
Term 1	**SCIF3010** (0 UoC) Graduation Portfolio

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T3 Entry 2025 Sample Plan

	Year 1
Term 3	**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 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	ELEC1111 Electrical Circuit Fundamentals
	CHEM1011 Chemistry 1A: Atoms, Molecules and Energy OR **CHEM1031** Higher Chemistry 1A: Atoms, Molecules and Energy
Term 2	**MMAN1130** Design and Manufacturing
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A

	Year 2
Term 3	**ENGG2500** Fluid Mechanics for Engineers
	ENGG1300 Engineering Mechanics
	DESN2000 Engineering Design and Professional Practice
Term 1	**MMAN2700** Thermodynamics
	MATS1192 Introduction to Materials Science and Engineering
	MATH2019 Engineering Mathematics 2E
Term 2	**MMAN2300** Engineering Mechanics 2
	ENGG2400 Mechanics of Solids 1

	Year 3
Term 3	**MATH2089** Numerical Methods and Statistics
	Recommended Discipline Elective*
Term 1	**AERO3410** Aerospace Structures
	MATS2001 Physical Properties of Materials
	MATS2003 Materials Characterisation
Term 2	**DESN3000** Strategic Design Innovation
	AERO3110 Aerospace Design 1
	MATS2004 Mechanical Behaviour of Materials

	Year 4
Term 3	**SCIF1000** Skills in Science
	MATS2009 Transport Processes in Materials Engineering
Term 1	**MATS3001** Micromechanisms of Mechanical Behaviour of Metals
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion
Term 2	**MATS2008** Thermodynamics and Phase Equilibria
	MMAN3200 Linear Systems and Control
	Employability Experience Course

	Year 5
Term 3	**MMAN4951** Research Thesis A
	AERO4110 Aerospace Design 2
	Discipline Elective
Term 1	**MMAN4952** Research Thesis B
	AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics
	MATS3002 Fundamentals of Ceramic Processing
Term 2	**MMAN4953** Research Thesis C
	MATS3004 Polymer Science and Engineering 1
	SCIF3010 (0 UoC) Graduation Portfolio
	Employability Experience Course

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