Engineering
Bachelor of Engineering (Honours) / Science (3767)
Aerospace Engineering (AEROAH) / Mathematics (MATHM1)
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
- **Employability Experience Course**

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
- **Science Elective**

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

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

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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
- Science Elective

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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Engineering
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T3 Entry 2025 Sample Plan

	Year 1
Term 3	**ENGG1300** Engineering Mechanics
	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
	DESN1000 Introduction to Engineering Design and Innovation
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
	DESN2000 Engineering Design and Professional Practice
	MATH2521 Complex Analysis OR **MATH2621** Higher Complex Analysis
Term 1	**MMAN2700** Thermodynamics
	Science Elective
Term 2	**MMAN2300** Engineering Mechanics 2
	ENGG2400 Mechanics of Solids 1
	MATH2501 Linear Algebra OR **MATH2601** Higher Linear Algebra

	Year 3
Term 3	**Science Elective**
	Employability Experience Course
Term 1	**AERO3410** Aerospace Structures
	AERO3630 Aerodynamics
	AERO3660 Flight Performance and Propulsion
Term 2	**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics
	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

	Year 4
Term 3	**SCIF1000** Skills in Science
	Lvl 3 Non-Statistics Prescribed Elective
	Discipline Elective
Term 1	**Lvl 3 Non-Statistics Prescribed Elective**
	Lvl 3 Maths Prescribed Elective
Term 2	**DESN3000** Strategic Design Innovation
	AERO3110 Aerospace Design 1
	MMAN3200 Linear Systems and Control

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

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