

Engineering

Bachelor of Engineering (Honours) (3707)

Mechanical Engineering (MECHAH)

T1 Entry 2025 Sample Plan



UNSW
SYDNEY

Year 1		Year 2		Year 3		Year 4	
Term 1	DESN1000 Engineering Design and Innovation	Term 1	MATH2019 Engineering Mathematics 2E OR MATH2018 Engineering Mathematics 2D	Term 1	MECH3110 Mechanical Design 1	Term 1	MMAN4951 (4 UoC) Research Thesis A
	PHYS1121 Physics 1A OR PHYS1131 (Higher) Physics 1A		MATH2089 Numerical Methods and Statistics		MMAN3400 Mechanics of Solids 2		Discipline Elective Course
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A				General Education Course		Discipline Elective Course
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	MMAN2300 Engineering Mechanics 2	Term 2	DESN3000 Strategic Design Innovation	Term 2	MMAN4952 (4 UoC) Research Thesis B
	MMAN1130 Design and Manufacturing		ENGG2400 Mechanics of Solids 1		MECH3610 Advanced Thermofluids		MECH4100 Mechanical Design 2
	ENGG1811 Computing for Engineers OR COMP1511 Programming Fundamentals OR COMP1911 Computing 1A		*Free Elective Course		MMAN3200 Linear Systems and Control		Recommended Discipline Elective Course
Term 3	ENGG1300 Engineering Mechanics	Term 3	DESN2000 Engineering Design & Professional Practice	Term 3	Recommended Discipline Elective Course	Term 3	MMAN4953 (4 UoC) Research Thesis C
	ELEC1111 Electrical Circuit Fundamentals		ENGG2500 Fluid Mechanics for Engineers		General Education Course		Free Elective Course
			MMAN2700 Thermodynamics				Recommended Discipline Elective Course

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

*MATS1110 is recommended Free Elective Course to be attempted during year 1. At least 18 UOC of discipline electives must be chosen from the "recommended elective list" in the handbook.

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

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T2 Entry 2025 Sample Plan



UNSW
SYDNEY

Year 1		Year 2		Year 3		Year 4	
Term 2	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A	Term 2	MMAN1130 Design and Manufacturing	Term 2	DESN3000 Strategic Design Innovation	Term 2	MMAN4951 (4 UoC) Research Thesis A
	MATH1131 Mathematics 1A		MMAN2300 Engineering Mechanics 2		MECH3610 Advanced Thermofluids		MECH4100 Mechanical Design 2
	ENGG1811 Computing for Engineers <u>OR</u> COMP1511 Programming Fundamentals <u>OR</u> COMP1911 Computing 1A		ENGG2400 Mechanics of Solids 1		MMAN3200 Linear Systems and Control		Recommended Discipline Elective Course
Term 3	ENGG1300 Engineering Mechanics	Term 3	DESN2000 Engineering Design & Professional Practice	Term 3	General Education Course	Term 3	MMAN4952 (4 UoC) Research Thesis B
	MATH1231 Mathematics 1B		ENGG2500 Fluid Mechanics for Engineers		Recommended Discipline Elective Course		Free Elective Course
	DESN1000 Engineering Design and Innovation		*Free Elective Course				Recommended Discipline Elective Course
Term 1	MMAN2700 Thermodynamics	Term 1	MATH2089 Numerical Methods and Statistics	Term 1	MECH3110 Mechanical Design 1	Term 1	MMAN4953 (4 UoC) Research Thesis C
	MATH2019 Engineering Mathematics 2E <u>OR</u> MATH2018 Engineering Mathematics 2D		ELEC1111 Electrical Circuit Fundamentals		MMAN3400 Mechanics of Solids 2		Discipline Elective Course
					General Education Course		Discipline Elective Course

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T3 Entry 2025 Sample Plan



UNSW
SYDNEY

Year 1		Year 2		Year 3		Year 4	
Term 3	DESN1000 Engineering Design and Innovation	Term 3	DESN2000 Engineering Design & Professional Practice	Term 3	General Education Course	Term 3	MMAN4951 (4 UoC) Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ENGG1300 Engineering Mechanics		Discipline Elective Course		Free Elective Course
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		ENGG2500 Fluid Mechanics for Engineers				Recommended Discipline Elective Course
Term 1	ELEC1111 Electrical Circuit Fundamentals	Term 1	MATH2019 Engineering Mathematics 2E <u>OR</u> MATH2018 Engineering Mathematics 2D	Term 1	MECH3110 Mechanical Design 1	Term 1	MMAN4952 (4 UoC) Research Thesis B
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		MATH2089 Numerical Methods and Statistics		MMAN3400 Mechanics of Solids 2		Recommended Discipline Elective Course
	MMAN2700 Thermodynamics				General Education Course		Discipline Elective Course
Term 2	MMAN1130 Design and Manufacturing	Term 2	MMAN2300 Engineering Mechanics 2	Term 2	DESN3000 Strategic Design Innovation	Term 2	MMAN4953 (4 UoC) Research Thesis C
	ENGG1811 Computing for Engineers <u>OR</u> COMP1511 Programming Fundamentals <u>OR</u> COMP1911 Computing 1A		ENGG2400 Mechanics of Solids 1		MECH3610 Advanced Thermofluids		MECH4100 Mechanical Design 2
			*Free Elective Course		MMAN3200 Linear Systems and Control		Recommended Discipline Elective Course

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