Engineering

Bachelor of Engineering (Honours) (3707)

Mechatronic Engineering (MTRNAH)

T1 Entry 2023 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4
Term 1	**DESN1000** Engineering Design and Innovation	Term 1	**MATH2018** OR **MATH2019** Engineering Mathematics 2D (2E)	Term 1	**MMAN3200** Linear Systems and Control	Term 1	**MTRN3020** Modelling and Control of Mechatronic Systems
	PHYS1121 OR **PHYS1131** (Higher) Physics 1A		**MATH2089** Numerical Methods and Statistics		**Discipline Elective Course**		**MTRN4010** Advanced Autonomous Systems
	MATH1131 OR **MATH1141** (Higher) Mathematics 1A		**ELEC2141** Digital Circuit Design		**Free Elective Course**		**MMAN4951** (4 UoC) Research Thesis A
Term 2	**MATH1231** OR **MATH1241** (Higher) Mathematics 1B	Term 2	**COMP1531** Software Engineering Fundamentals	Term 2	**MTRN3100** Robot Design	Term 2	**MTRN4230** Robotics
	MMAN1130 Design and Manufacturing		**MMAN2300** Engineering Mechanics 2		**DESN3000** Strategic Design Innovation		**Free Elective Course**
			ENGG2400* Mechanics of Solids 1		**General Education Course**		**MMAN4952** (4 UoC) Research Thesis B
Term 3	**COMP1511** Programming Fundamentals	Term 3	**DESN2000** Engineering Design and Professional Practice	Term 3	**MTRN3500** Computing Applications in Mechatronics Systems	Term 3	**General Education Course**
	ENGG1300 Engineering Mechanics		**MTRN2500** Computing for Mechatronic Engineers		**Discipline Elective Course**		**Discipline Elective Course**
	ELEC1111 Electrical Circuit Fundamentals						**MMAN4953** (4 UoC) Research Thesis C

NOTES

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

*ENGG2400 or **ENGG2500** (Term 1 or 3) or **MMAN2700** (Term 1)

**This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.
At least 6 UOC of discipline electives must be chosen from the "recommended elective list".**

Engineering

Bachelor of Engineering (Honours) (3707)
Mechatronic Engineering (MTRNAH)
T2 Entry 2023 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4
Term 2	**PHYS1121 OR PHYS1131** (Higher) Physics 1A	**Term 2**	**COMP1531** Software Engineering Fundamentals	**Term 2**	**MMAN2300** Engineering Mechanics 2	**Term 2**	**MTRN3100** Robot Design
	MATH1131 OR MATH1141 (Higher) Mathematics 1A		**MATH2018 OR MATH2019** Engineering Mathematics 2D (2E)		**DESN3000** Strategic Design Innovation		**MTRN4230** Robotics
	MMAN1130 Design and Manufacturing		**ENGG2400*** Mechanics of Solids 1		**General Education Course**		**MMAN4951** (4 UoC) Research Thesis A
Term 3	**DESN1000** Engineering Design and Innovation	**Term 3**	**MATH2089** Numerical Methods and Statistics	**Term 3**	**MTRN3500** Computing Applications in Mechatronics Systems	**Term 3**	**Discipline Elective Course**
	COMP1511 Programming Fundamentals		**DESN2000** Engineering Design and Professional Practice		**Free Elective Course**		**Discipline Elective Course**
	ENGG1300 Engineering Mechanics		**MTRN2500** Computing for Mechatronic Engineers		**General Education Course**		**MMAN4952** (4 UoC) Research Thesis B
Term 1	**ELEC1111** Electrical Circuit Fundamentals	**Term 1**	**ELEC2141** Digital Circuit Design	**Term 1**	**MMAN3200** Linear Systems and Control	**Term 1**	**MTRN3020** Modelling and Control of Mechatronic Systems
	MATH1231 OR MATH1241 (Higher) Mathematics 1B		**Free Elective Course**		**Discipline Elective Course**		**MTRN4010** Advanced Autonomous Systems
							MMAN4953 (4 UoC) Research Thesis C

NOTES

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

***ENGG2400 or ENGG2500** (Term 1 or 3) **or** **MMAN2700** (Term 1)*

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for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G

Engineering

Bachelor of Engineering (Honours) (3707)
Mechatronic Engineering (MTRNAH)
T3 Entry 2023 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4
Term 3	PHYS1121 OR PHYS1131 (Higher) Physics 1A	**Term 3**	ENGG1300 Engineering Mechanics	**Term 3**	MTRN2500 Computing for Mechatronic Engineers	**Term 3**	MTRN3500 Computing Applications in Mechatronics Systems
	MATH1131 OR MATH1141 (Higher) Mathematics 1A		MATH2018 OR MATH2019 Engineering Mathematics 2D (2E)		**Free Elective Course**		**Discipline Elective Course**
	COMP1511 Programming Fundamentals		DESN2000 Engineering Design and Professional Practice		**General Education Course**		MMAN4951 (4 UoC) Research Thesis A
Term 1	DESN1000 Engineering Design and Innovation	**Term 1**	COMP1531 Software Engineering Fundamentals	**Term 1**	MMAN3200 Linear Systems and Control	**Term 1**	MTRN3020 Modelling and Control of Mechatronic Systems
	ELEC1111 Electrical Circuit Fundamentals		ELEC2141 Digital Circuit Design		**General Education Course**		MTRN4010 Advanced Autonomous Systems
	MATH1231 OR MATH1241 (Higher) Mathematics 1B		MATH2089 Numerical Methods and Statistics		**Discipline Elective Course**		MMAN4952 (4 UoC) Research Thesis B
Term 2	**Free Elective Course**	**Term 2**	MMAN2300 Engineering Mechanics 2	**Term 2**	MTRN3100 Robot Design	**Term 2**	MTRN4230 Robotics
	MMAN1130 Design and Manufacturing		ENGG2400* Mechanics of Solids 1		DESN3000 Strategic Design Innovation		**Discipline Elective Course**
							MMAN4953 (4 UoC) Research Thesis C

NOTES

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

*ENGG2400 or ENGG2500 (Term 1 or 3) or MMAN2700 (Term 1)

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