Engineering
Bachelor of Engineering (Honours) (3707)
Mechatronic Engineering (MTRNAH)
T1 Entry 2024 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**	**MMAN3200** Linear Systems and Control	**Term 1**	**MTRN3020** Modelling and Control of Mechatronic Systems
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**MATH2089** Numerical Methods and Statistics		**Discipline Elective Course**		**MTRN4010** Advanced Autonomous Systems
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**ELEC2141** Digital Circuit Design		**Free Elective Course**		**MMAN4951** (4 UoC) Research Thesis A
Term 2	**MATH1231** Mathematics 1B 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)

At least 6 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.

Engineering
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Mechatronic Engineering (MTRNAH)
T2 Entry 2024 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4
Term 2	**PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A	**Term 2**	**COMP1531** Software Engineering Fundamentals	**Term 2**	**MMAN2300** Engineering Mechanics 2	**Term 2**	**MTRN3100** Robot Design
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D		**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 Mathematics 1B 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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Engineering
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Mechatronic Engineering (MTRNAH)
T3 Entry 2024 Sample Plan

Year 1		Year 2		Year 3		Year 4	
Term 3	**PHYS1121** Physics 1A 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 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D		**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 Mathematics 1B 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)

At least 6 UOC of discipline electives must be chosen from the "recommended elective list" in the handbook.

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