Engineering

Bachelor of Engineering (Honours) (3707)

Mechanical & Manufacturing Engineering (MANFBH)

T1 Entry 2024 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 1	**DESN1000** Engineering Design and Innovation	**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D	**Free Elective Course**	**MANF4150** Design of Intelligent Manufacturing Systems
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MATH2089** Numerical Methods and Statistics	**MECH3110** Mechanical Design 1	**MANF4430** Reliability and Maintenance Engineering
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MMAN2700** Thermodynamics	**MANF4100** Design and Analysis of Product-Process Systems	**MMAN4951** (4 UoC) Research Thesis A
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MMAN2300** Engineering Mechanics 2	**MANF3510** Process Technology and Automation	**MANF4611** Process Modelling and Simulation
	MMAN1130 Design and Manufacturing	**ENGG2400** Mechanics of Solids 1	**DESN3000** Strategic Design Innovation	**General Education Course**
		***Free Elective Course**	**MMAN3200** Linear Systems and Control	**MMAN4952** (4 UoC) Research Thesis B
Term 3	**ENGG1300** Engineering Mechanics	**DESN2000** Engineering Design and Professional Practice	**MMAN4400** Engineering Management	**MMAN4953** (4 UoC) Research Thesis C
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**ENGG2500** Fluid Mechanics for Engineers	**General Education Course**	**Discipline Elective Course**
	ELEC1111 Electrical Circuit Fundamentals			**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.

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

Engineering

Bachelor of Engineering (Honours) (3707)

Mechanical & Manufacturing Engineering (MANFBH)

T2 Entry 2024 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 2	**Free Elective Course**	**MMAN1130** Design and Manufacturing	**MANF3510** Process Technology and Automation	**MANF4611** Process Modelling and Simulation
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MMAN2300** Engineering Mechanics 2	**DESN3000** Strategic Design Innovation	**General Education Course**
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**ENGG2400** Mechanics of Solids 1	**MMAN3200** Linear Systems and Control	**MMAN4951** (4 UoC) Research Thesis A
Term 3	**ENGG1811** Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**DESN2000** Engineering Design and Professional Practice	**MMAN4400** Engineering Management	**Discipline Elective Course**
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**ENGG2500** Fluid Mechanics for Engineers	**MATH2089** Numerical Methods and Statistics	**Discipline Elective Course**
	ENGG1300 Engineering Mechanics		**General Education Course**	**MMAN4952** (4 UoC) Research Thesis B
Term 1	**ELEC1111** Electrical Circuit Fundamentals	**MMAN2700** Thermodynamics	**MANF4100** Design and Analysis of Prod1uct-Process Systems	**MANF4150** Design of Intelligent Manufacturing Systems
	DESN1000 Engineering Design and Innovation	**MECH3110** Mechanical Design 1	**MANF4430** Reliability and Maintenance Engineering	**MMAN4953** (4 UoC) Research Thesis C
		MATH2019 Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D		**Free 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.

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

Engineering

Bachelor of Engineering (Honours) (3707)

Mechanical & Manufacturing Engineering (MANFBH)

T3 Entry 2024 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 3	**DESN1000** Engineering Design and Innovation	**DESN2000** Engineering Design and Professional Practice	**MMAN4400** Engineering Management	**Discipline Elective Course**
	ELEC1111 Electrical Circuit Fundamentals	**ENGG2500** Fluid Mechanics for Engineers	**Discipline Elective Course**	**General Education Course**
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**ENGG1300** Engineering Mechanics	**General Education Course**	**MMAN4951** (4 UoC) Research Thesis A
Term 1	**MATH1131** Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D	**MECH3110** Mechanical Design 1	**MANF4150** Design of Intelligent Manufacturing Systems
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MATH2089** Numerical Methods and Statistics	**MANF4100** Design and Analysis of Product-Process Systems	**MANF4430** Reliability and Maintenance Engineering
		MMAN2700 Thermodynamics		**MMAN4952** (4 UoC) Research Thesis B
Term 2	**MMAN1130** Design and Manufacturing	**MMAN2300** Engineering Mechanics 2	**MANF3510** Process Technology and Automation	**MANF4611** Process Modelling and Simulation
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**ENGG2400** Mechanics of Solids 1	**DESN3000** Strategic Design Innovation	**MMAN4953** (4 UoC) Research Thesis C
	***Free Elective Course**		**MMAN3200** Linear Systems and Control	**Free 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.

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