Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Mechanical Engineering (MECHAH)

T1 Entry 2025 Sample Plan

Year 1	
Term 1	**DESN1000** Engineering Design and Innovation
	PHYS1121 Physics 1A OR **PHYS1131** (Higher) Physics 1A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	MMAN1130 Design and Manufacturing
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A
Term 3	**ENGG1300** Engineering Mechanics
	ELEC1111 Electrical Circuit Fundamentals

Year 2	
Term 1	**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D
	MATH2089 Numerical Methods and Statistics
	MMAN2700 Thermodynamics
Term 2	**MMAN2300** Engineering Mechanics 2
	ENGG2400 Mechanics of Solids 1
Term 3	**DESN2000** Engineering Design & Professional Practice
	ENGG2500 Fluid Mechanics for Engineers
	ANAT2511 Fundamentals of Anatomy

Year 3	
Term 1	**MECH3110** Mechanical Design 1
	MMAN3400 Mechanics of Solids 2
	PHSL2121 Principles of Physiology A
Term 2	**DESN3000** Strategic Design Innovation
	MECH3610 Advanced Thermofluids
	MMAN3200 Linear Systems and Control
Term 3	**Recommended Discipline Elective**
	Recommended Discipline Elective

Year 4	
Term 1	**Recommended Discipline Elective**
	Biomedical Engineering Course
Term 2	**MECH4100** Mechanical Design 2
	Discipline Elective
	Discipline Elective
Term 3	**Biomedical Engineering Course**
	Biomedical Engineering Course
	Biomedical Engineering Course

Year 5	
Term 2	**BIOM4951** Research Thesis A (4 UoC)
	BIOM9410 Regulatory Requirements of Biomedical Technology
	Biomedical Engineering Course
Term 3	**BIOM4952** Research Thesis B (4 UoC)
	BIOM9420 Clinical Laboratory Science
	^Additional Elective
Term 1	**BIOM4953** Research Thesis C (4 UoC)
	Biomedical Engineering Course
	Free Elective

NOTES

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

*MATS1110 is recommended as the free elective. ^BIOM1010 Engineering in Medicine and Biology is a recommended first year elective

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Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Mechanical Engineering (MECHAH)

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 2	**ENGG1811** Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**MMAN2300** Engineering Mechanics 2	**DESN3000** Strategic Design Innovation	**MECH4100** Mechanical Design 2	**BIOM4951** Research Thesis A (4 UoC)
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**ENGG2400** Mechanics of Solids 1	**MECH3610** Advanced Thermofluids	**Recommended Discipline Elective**	**BIOM9420** Clinical Laboratory Science
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MMAN1130** Design and Manufacturing	**MMAN3200** Linear Systems and Control	**Biomedical Engineering Course**	**Biomedical Engineering Course**
Term 3	**DESN1000** Engineering Design and Innovation	**DESN2000** Engineering Design & Professional Practice	**Recommended Discipline Elective**	**Discipline Elective**	**BIOM4952** Research Thesis B (4 UoC)
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**ANAT2511** Fundamentals of Anatomy	**Recommended Discipline Elective**	**Discipline Elective**	**Biomedical Engineering Course**
	ENGG1300 Engineering Mechanics	**ENGG2500** Fluid Mechanics for Engineers			**^Additional Elective**
Term 1	**MMAN2700** Thermodynamics	**MATH2089** Numerical Methods and Statistics	**MECH3110** Mechanical Design 1	**BIOM9410** Regulatory Requirements of Biomedical Technology	**BIOM4953** Research Thesis C (4 UoC)
	MATH2019 Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D	**ELEC1111** Electrical Circuit Fundamentals	**MMAN3400** Mechanics of Solids 2	**Biomedical Engineering Course**	**Biomedical Engineering Course**
			PHSL2121 Principles of Physiology A	**Biomedical Engineering Course**	**Free Elective**

NOTES

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Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Mechanical Engineering (MECHAH)

T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 3	**DESN1000** Engineering Design and Innovation	**DESN2000** Engineering Design & Professional Practice	**ANAT2511** Fundamentals of Anatomy	**Recommended Discipline Elective**	**BIOM4951** Research Thesis A (4 UoC)
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**ENGG1300** Engineering Mechanics	**Recommended Discipline Elective**	**Discipline Elective**	**Biomedical Engineering Course**
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**ENGG2500** Fluid Mechanics for Engineers			**Biomedical Engineering Course**
Term 1	**ELEC1111** Electrical Circuit Fundamentals	**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D	**MECH3110** Mechanical Design 1	**Discipline Elective**	**BIOM4952** Research Thesis B (4 UoC)
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MATH2089** Numerical Methods and Statistics	**MMAN3400** Mechanics of Solids 2	**Biomedical Engineering Course**	**BIOM9410** Regulatory Requirements of Biomedical Technology
	MMAN2700 Thermodynamics	**Recommended Discipline Elective**	**PHSL2121** Principles of Physiology A	**Biomedical Engineering Course**	**^Additional Elective**
Term 2	**MMAN1130** Design and Manufacturing	**MMAN2300** Engineering Mechanics 2	**DESN3000** Strategic Design Innovation	**MECH4100** Mechanical Design 2	**BIOM4953** Research Thesis C (4 UoC)
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1	**ENGG2400** Mechanics of Solids 1	**MECH3610** Advanced Thermofluids	**Biomedical Engineering Course**	**BIOM9420** Clinical Laboratory Science
			MMAN3200 Linear Systems and Control	**Biomedical Engineering Course**	**Free Elective***

NOTES

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

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