

# Bachelor of Engineering (Honours) (3707)

## Mechanical Engineering (MECHAH)

### T1 Entry 2023 Sample Plan



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

<b>NOTES</b>	Compulsory Training Component: There is a program requirement of 60 days approved <a href="#">Industrial Training</a> ENGG4999
	<b>This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.</b> <b>*MATS1110 is recommended Free Elective Course to be attempted during year 1.</b>
	<b>At least 18 UOC of discipline electives must be chosen from the "recommended elective list".</b>

# Bachelor of Engineering (Honours) (3707)

## Mechanical Engineering (MECHAH)

### T2 Entry 2023 Sample Plan



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

**NOTES**

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

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

**\*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".**

# Bachelor of Engineering (Honours) (3707)

## Mechanical Engineering (MECHAH)

### T3 Entry 2023 Sample Plan



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

**NOTES**

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

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

**\*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".**