

# Bachelor of Engineering (Honours) / Commerce (3764)

## ROBOTICS AND MECHATRONICS ENGINEERING (MTRNBH) / FINANCE (FINSA1)

### T1 Entry 2025 Sample Plan



UNSW  
SYDNEY

Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
Term 1	<b>DESN1000</b> Engineering Design and Innovation	Term 1	<b>MATH2019</b> Engineering Mathematics 2E <b>OR</b> <b>MATH2018</b> Engineering Mathematics 2D	Term 1	<b>MTRN3210</b> Feedback Control Systems	Term 1	<b>MTRN3020</b> Modelling and Control of Mechatronic Systems	Term 1	<b>MMAN4951</b> (4 UoC) Research Thesis A	Term 1	<b>Discipline Elective</b>
	<b>PHYS1121</b> Physics 1A <b>OR</b> <b>PHYS1131</b> (Higher) Physics 1A		<b>MATH2089</b> Numerical Methods and Statistics		<b>COMM1100</b> Business Decision Making		<b>MTRN4010</b> Advanced Autonomous Systems		<b>FINS2618</b> Capital Markets & Institution		<b>Finance Level 3 Elective</b>
	<b>MATH1131</b> Mathematics 1A <b>OR</b> <b>MATH1141</b> Higher Mathematics 1A		<b>ELEC2141</b> Digital Circuit Design						<b>FINS3616</b> International Business Finance		<b>COMM3999</b> (0 UoC) myBCom Graduation Portfolio
Term 2	<b>MATH1231</b> Mathematics 1B <b>OR</b> <b>MATH1241</b> Higher Mathematics 1B	Term 2	<b>COMP2521</b> Data Structures and Algorithms	Term 2	<b>MTRN3100</b> Robot Design	Term 2	<b>DESN3000</b> Strategic Design Innovation	Term 2	<b>MMAN4952</b> (4 UoC) Research Thesis B	Term 2	<b>Finance Level 3 Elective</b>
	<b>COMP1511</b> Programming Fundamentals		<b>MMAN2300</b> Engineering Mechanics 2		<b>COMM1120</b> Collab. and Innov. in Business		<b>COMM1180</b> Value Creation		<b>Business Elective</b>		<b>Prescribed WIL Course*</b>
	<b>COMM0999</b> (0 UOC) MyBCOM Blueprint		<b>ENGG2400</b> Mechanics of Solids 1 <b>OR</b> <b>ENGG2500</b> Fluid Mechanics for Engineers <b>OR</b> <b>MMAN2700</b> Thermodynamics		<b>COMM1140</b> Financial Management		<b>MTRN4230</b> Robotics		<b>Discipline Elective</b>		
Term 3	<b>ENGG1300</b> Engineering Mechanics	Term 3	<b>DESN2000</b> Engineering Design & Professional Practice	Term 3	<b>MTRN3500</b> Computing Applications in Mechatronics Systems	Term 3	<b>COMM1190</b> Data, Insights and Decisions	Term 3	<b>MMAN4953</b> (4 UoC) Research Thesis C	Term 3	
	<b>ELEC1111</b> Electrical Circuit Fundamentals		<b>MTRN2500</b> Computing for Mechatronic Engineers		<b>COMM1150</b> Global Business Environments		<b>FINS2615</b> Intermediate Business Finance		<b>Finance Elective</b>		
	<b>MMAN1130</b> Design and Manufacturing		<b>COMM1999</b> (0 UoC) myBCom First Year Portfolio		<b>COMM1170</b> Organisational Resources		<b>FINS2624</b> Portfolio Mgmt		<b>Discipline Elective</b>		

#### NOTES

**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 engineering discipline electives must be chosen from the "recommended elective list" in the handbook.

\*Please see the Handbook for information regarding available Prescribed WIL Courses and the requirements of this component. Engineering Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

# Bachelor of Engineering (Honours) / Commerce (3764)

## ROBOTICS AND MECHATRONICS ENGINEERING (MTRNBH) / FINANCE (FINSA1)

### T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
Term 3	<b>MATH1131</b> Mathematics 1A <b>OR</b> <b>MATH1141</b> Higher Mathematics 1A	Term 3	<b>DESN2000</b> Engineering Design & Professional Practice	Term 3	<b>COMM1100</b> Business Decision Making	Term 3	<b>COMM1170</b> Organisational Resources	Term 3	<b>MMAN4951</b> (4 UoC) Research Thesis A	Term 3	<b>Discipline Elective</b>
	<b>PHYS1121</b> Physics 1A <b>OR</b> <b>PHYS1131</b> Higher Physics 1A		<b>ENGG1300</b> Engineering Mechanics		<b>COMM1120</b> Collab. and Innov. in Business		<b>COMM1180</b> Value Creation		<b>FINS2615</b> Intermediate Business Finance		<b>Discipline Elective</b>
	<b>COMP1511</b> Programming Fundamentals		<b>MTRN2500</b> Computing for Mechatronic Engineers		<b>MTRN3500</b> Computing Applications in Mechatronics Systems		<b>COMM1190</b> Data, Insights and Decisions		<b>Finance Elective</b>		<b>COMM3999</b> (0 UoC) myBCom Graduation Portfolio
Term 1	<b>DESN1000</b> Engineering Design and Innovation		Term 1	<b>COMM0999</b> (0 UOC) MyBCOM Blueprint	Term 1	<b>MTRN3210</b> Feedback Control Systems	Term 1	<b>MTRN3020</b> Modelling and Control of Mechatronic Systems	Term 1	<b>MMAN4952</b> (4 UoC) Research Thesis B	Term 1
	<b>ELEC1111</b> Electrical Circuit Fundamentals	<b>ELEC2141</b> Digital Circuit Design		<b>COMM1140</b> Financial Management		<b>MTRN4010</b> Advanced Autonomous Systems		<b>FINS2624</b> Portfolio Mgmt		<b>Prescribed WIL Course*</b>	
	<b>MATH1231</b> Mathematics 1B <b>OR</b> <b>MATH1241</b> Higher Mathematics 1B	<b>MATH2089</b> Numerical Methods and Statistics		<b>COMM1150</b> Global Business Environments		<b>COMM1999</b> (0 UoC) myBCom First Year Portfolio		<b>Business Elective</b>			
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>MTRN4230</b> Robotics	Term 2	<b>MMAN4953</b> (4 UoC) Research Thesis C	Term 2	
	<b>COMP2521</b> Data Structures and Algorithms		<b>ENGG2400</b> Mechanics of Solids 1 <b>OR</b> <b>ENGG2500</b> Fluid Mechanics for Engineers <b>OR</b> <b>MMAN2700</b> Thermodynamics		<b>MTRN3100</b> Robot Design		<b>FINS2618</b> Capital Markets & Institution		<b>FINS3616</b> International Business Finance		<b>Finance Level 3 Elective</b>
							<b>Discipline Elective</b>				

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