

**Bachelor of Engineering (Electrical and Electronic) (Honours), Master of Engineering (Mechanical) 5.5 years 198 units  
2024 Study Planner**



Science & Engineering

**Semester 1 Start:**

First Level	Semester 1	<b>ENGR1711</b> Engineering Design	<b>ENGR1721</b> Engineering Programming	<b>PHYS1101</b> Physics 1A	<b>MATH1121</b> Mathematics 1A
	Semester 2	<b>ENGR1201</b> Electronics	<b>ENGR1401</b> Professional skills	<b>ENGR1722</b> Engineering Materials and Systems	<b>MATH1122</b> Mathematics 1B
Second Level	Semester 1	<b>ENGR2711</b> Engineering Mathematics	<b>ENGR2731</b> Electronic Circuits	<b>ENGR2751</b> Fluid Mechanics	<b>ENGR2781</b> Mechanical Design Project
	NS2	<b>ENGR2703</b> Mechanical Practice Certificate (0 points)			
	Semester 2	<b>COMP2711</b> Computer Programming 2	<b>ENGR2712</b> Automation and Industrial Control	<b>ENGR2722</b> Signals and Systems	<b>ENGR2771</b> Dynamics
Third Level	Semester 1	<b>ENGR2741</b> Mechanics and Structures	<b>ENGR2752</b> Mechanics of Machines	<b>ENGR3711</b> Control Systems	Year 3 Major Topic
	NS1	<b>ENGR2705</b> Working in Secure and Sensitive Professions (0 points)			
	Semester 2	<b>ENGR2702</b> Electrical Circuits and Applications	<b>ENGR2772</b> Sensors and Actuators	<b>ENGR2812</b> Engineering Materials 2	<b>PHYS2712</b> Thermodynamics and Energy Systems
Fourth Level	Semester 1	<b>ENGR8881</b> Applied Thermo-Fluid Dynamics GE	<b>ENGR9811</b> Solid Mechanics GE	Year 3 Major Topic	Year 3 Major Topic
	NS1	<b>ENGR3750</b> Workplace Preparation (0 units)			
	Semester 2	<b>ENGR9704</b> Engineering Management	<b>ENGR3700</b> Engineering Practicum (13.5 units) <b>OR</b> <b>ENGR3710</b> International Engineering Practicum (13.5 units)		

Fifth Level	Semester 1	<b>ENGR7811</b> Advanced Mechanical Design	Year 3 or 4 Major Topic	Year 3 or 4 Major Topic	Year 3 or 4 Major Topic
	Semester 2	<b>STEM9003</b> Research Methods for Engineering and ICT Masters	<b>STEM9100A</b> Masters Research Project (4.5/13.5 units)	<b>ENGR9742</b> Systems Engineering	<b>ENGR7762</b> Renewable Energy Systems <b>OR</b> <b>ENGR7891</b> Fatigue and Fracture Analysis
Sixth Level	Semester 1	<b>STEM9100B</b> Masters Research Project (4.5/13.5 units)	<b>STEM9100C</b> Masters Research Project (4.5/13.5 units)	Year 3 or 4 Major Topic	Year 3 or 4 Major Topic
	Semester 2				

### Semester 2 Start:

First Level	Semester 2	<b>ENGR1201</b> Electronics	<b>ENGR1401</b> Professional skills	<b>ENGR1722</b> Engineering Materials and Systems	<b>MATH1121</b> Mathematics 1A
	Semester 1	<b>ENGR1711</b> Engineering Design	<b>ENGR1721</b> Engineering Programming	<b>PHYS1101</b> Physics 1A	<b>MATH1122</b> Mathematics 1B
	NS2	<b>ENGR2703</b> Mechanical Practice Certificate (0 points)			
Second Level	Semester 2	<b>COMP2711</b> Computer Programming 2	<b>ENGR2712</b> Automation and Industrial Control	<b>ENGR2722</b> Signals and Systems	<b>ENGR2771</b> Dynamics
	NS1	<b>ENGR2705</b> Working in Secure and Sensitive Professions (0 points)			
	Semester 1	<b>ENGR2711</b> Engineering Mathematics	<b>ENGR2731</b> Electronic Circuits	<b>ENGR2751</b> Fluid Mechanics	<b>ENGR2781</b> Mechanical Design Project
Third Level	Semester 2	<b>ENGR2702</b> Electrical Circuits and Applications	<b>ENGR2772</b> Sensors and Actuators	<b>ENGR2812</b> Engineering Materials 2	<b>PHYS2712</b> Thermodynamics and Energy Systems
	NS1	<b>ENGR3750</b> Workplace Preparation (0 units)			

	Semester 1	<b>ENGR2741</b> Mechanics and Structures	<b>ENGR2752</b> Mechanics of Machines	<b>ENGR3711</b> Control Systems	Year 3 Major Topic
Fourth Level	Semester 2	<b>ENGR9704</b> Engineering Management	<b>ENGR3700 Engineering Practicum (13.5 units)</b> <b>OR</b> <b>ENGR3710 International Engineering Practicum (13.5 units)</b>		
	Semester 1	<b>ENGR8881</b> Applied Thermo-Fluid Dynamics GE	<b>ENGR9811</b> Solid Mechanics GE	Year 3 Major Topic	Year 3 Major Topic
Fifth Level	Semester 2	<b>STEM9003</b> Research Methods for Engineering and ICT Masters	<b>STEM9100A</b> Masters Research Project (4.5/13.5 units)	<b>ENGR9742</b> Systems Engineering	<b>ENGR7762</b> Renewable Energy Systems <b>OR</b> <b>ENGR7891</b> Fatigue and Fracture Analysis
	Semester 1	<b>ENGR7811</b> Advanced Mechanical Design	Year 3 or 4 Major Topic	Year 3 or 4 Major Topic	Year 3 or 4 Major Topic
Sixth Level	Semester 2	<b>STEM9100B</b> Masters Research Project (4.5/13.5 units)	<b>STEM9100C</b> Masters Research Project (4.5/13.5 units)	Year 3 or 4 Major Topic	Year 3 or 4 Major Topic
	Semester 1				

**Key:**

Core Topics	Compulsory topic
Option Topics	A choice from a list of specified topics (please refer to course rule)
Major Topics	A topic from the Engineering major selected

Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official [Course Rule](#).
- Topic information for all topics, including pre-requisites can be found on the [Topic Page](#)
- General enrolment assistance is available via [Ask Flinders](#)
- For specific course advice e-mail: [courseadvice.SE@flinders.edu.au](mailto:courseadvice.SE@flinders.edu.au)