

**Bachelor of Engineering (Robotics) (Honours),
Master of Engineering (Electrical and
Electronic)
2023 Study Planner**



Science & Engineering

Semester 1:

First Level	Semester 1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	PHYS1101 Physics 1A	MATH1121 Mathematics 1A
	Semester 2	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1722 Engineering Materials and Systems	MATH1122 Mathematics 1B
Second Level	Semester 1	ENGR2711 Engineering Mathematics	ENGR2791 Electrical Engineering Principles	ENGR2731 Electronic Circuits	ENGR2781 Mechanical Design Project or ENGR2752 Mechanics of Machines
	Semester 2	COMP2711 Computer Programming 2	ENGR2702 Electrical Circuits and Machines	ENGR2722 Signals and Systems	ENGR2772 Sensors and Actuators
Third Level	Semester 1	ENGR3701 Computer Organisation and Design	ENGR3731 Communication Systems	ENGR3721 Signal Processing	ENGR3771 Robotic Systems
	Semester 2	ENGR2712 Automation and Industrial Control	ENGR2771 Dynamics	ENGR9742 Systems Engineering	Elective Topic (4.5 units)
Fourth Level	Semester 1	ENGR7732 Estimation and Machine Learning	ENGR7761 Computer Vision	ENGR9721 Control Systems GE	Minor: Year 4 Option topic (4.5 units)
	NS1	ENGR3750 Workplace Preparation (0 units)			
	Semester 2	ENGR9704 Engineering Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
Fifth level	Semester 1	STEM9003 Research Methods for Engineering and ICT Masters	STEM9100A Masters Research Project (4.5/13.5 units)	Minor: Year 5 Option Topic (4.5 units)	Minor: Year 5 Option Topic (4.5 units)
	Semester 2	STEM9100B Masters Research Project (4.5/13.5 units)	STEM9100C Masters Research Project (4.5/13.5 units)	ENGR7712 Autonomous Systems	Minor: Year 5 Option Topic (4.5 units)

Semester 2:

First Level	Semester 2	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1722 Engineering Materials and Systems	MATH1121 Mathematics 1A
	Semester 1	ENGR1721 Engineering Programming	PHYS1101 Physics 1A	ENGR1711 Engineering Design	MATH1122 Mathematics 1B
Second Level	Semester 2	COMP2711 Computer Programming 2	ENGR2702 Electrical Circuits and Machines	ENGR2722 Signals and Systems	ENGR2772 Sensors and Actuators
	Semester 1	ENGR2711 Engineering Mathematics	ENGR2791 Electrical Engineering Principles	ENGR2731 Electronic Circuits	ENGR2781 Mechanical Design Project or ENGR2752 Mechanics of Machines
Third Level	Semester 2	ENGR2712 Automation and Industrial Control	ENGR2771 Dynamics	ENGR9742 Systems Engineering	Elective Topic (4.5 units)
	Semester 1	ENGR3701 Computer Organisation and Design	ENGR3731 Communication Systems	ENGR3721 Signal Processing	ENGR3771 Robotic Systems
	NS1	ENGR3750 Workplace Preparation (0 units)			
Fourth Level	Semester 2	ENGR9704 Engineering Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
	Semester 1	ENGR7732 Estimation and Machine Learning	ENGR7761 Computer Vision	ENGR9721 Control Systems GE	Minor: Year 4 Option topic (4.5 units)
Fifth level	Semester 2	STEM9003 Research Methods for Engineering and ICT Masters	STEM9100A Masters Research Project (4.5/13.5 units)	ENGR7712 Autonomous Systems	Minor: Year 5 Option Topic (4.5 units)
	Semester 1	STEM9100B Masters Research Project (4.5/13.5 units)	STEM9100C Masters Research Project (4.5/13.5 units)	Minor: Year 5 Option Topic (4.5 units)	Minor: Year 5 Option Topic (4.5 units)

Key:

Core Topics	Compulsory topic
Option Topics	A choice from a list of specified topics (please refer to course rule)
Minor Topic	A topic from the Engineering minor selected
Elective	Any topic offered by the University at the appropriate year level, provided entry and course requirements are met

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