

# Bachelor of Engineering (Honours) (Electrical and Electronic Engineering)

(MA1020 – Preparatory Mathematics required)

Useful study planning/enrolment resources:

- [Subject Search](#)
- [Academic Calendars](#)
- [Class Registration](#)
- [Enrolment Resources](#)

The information in the study planner is current at the time of creation may be subject to future change.

**Attention International Student visa holders:** To remain compliant with your enrolments requirements as a Student visa holder you are required to enrol in at least one On-Campus, Multi-Modal or WIL subject offering in each compulsory study period and you cannot enrol in more than one third (33%) of your total course load through online or distance learning. To complete your course within your CoE duration students must maintain sufficient subject enrolment.

If there are only Online subject offerings for you to select in a compulsory study period, contact [enrolments@jcu.edu.au](mailto:enrolments@jcu.edu.au) urgently for enrolment advice.

The College of Science and Engineering will be offering some subjects in Block 1 and Block 2 (see the [Academic Calendar](#) for Block 1 and 2 dates). International students must maintain enrolment in subjects across the whole Trimester 1 period (January – April) and can do this by enrolling in a combination of Block 1 and Block 2 subjects, and/or Trimester 1 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025	EG1000:03 Engineering 1	EG1011:03 Statics and Dynamics <i>PREREQ: Allow concurrent enrolment in PH1005</i>	EG1010:03 Process Engineering
	EG1002:03 Computing and Sensors	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	EG1012:03 Electric Circuits
	MA1020:03 Preparatory Mathematics	PH1005:03 Newtonian Physics <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, 116409 or 116309. Allow concurrent for MA1000 and MA1008</i>	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011</i>

\*Recommended studying all EG Level 1 subjects in 1<sup>st</sup> year as this provides the required knowledge to determine your major pathway (for a total of 9 subjects this year) This choice also allows for a lighter 7-subject load in 4<sup>th</sup> year when completing your thesis.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	<b>Major</b> EE2201:03 Circuit Theory <i>PREREQ: EG1012 and MA2000.</i>	<b>Major</b> CP1404:03 Programming II <i>PREREQ: CP1801 or CP1401 or CP1200 or EG1012 or CP2200 or SC1201</i>
	Select 3 credit points of any undergraduate subjects	<b>Major</b> PH2019:03 Electromagnetism and Optics <i>PREREQ: (EG1012 or PH1005) and MA1003</i>	<b>Major</b> EE2300:03 Electronics and Circuit Design <i>PREREQ: EG1012</i>
		Select 3 credit points of any undergraduate subjects	Select 3 credit points of any undergraduate subjects

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	<b>Major</b> CC2511:03 Embedded Systems Design <i>PREREQ: EG1002 or CP1300 or CP1404 or Admittance into Master of Engineering (Professional)</i>	<b>Major</b> CP1407:03 Introductory Machine Learning and Data Science	<b>Major</b> EE3400:03 Power System Analysis <i>PREREQ: EE2201 or Admittance into the Master of Engineering (Professional)</i>
	<b>BLOCK 2 (Mar-Apr)</b>	<b>Major</b> CC3501:03 Embedded Systems Design and Interfacing <i>PREREQ:(CC2511 and CP1404) or Admittance to the Master of Engineering (Professional)</i>	<b>Major</b> EE3600:03 Automatic Control 1 <i>PREREQ: EG1012 and MA2000 or Admittance into the Master of Engineering (Professional)</i>
	EG3000:03 Introduction to Systems Engineering and Project Management <i>PREREQ: EG1000 and EG1002 and EG1010 and EG1011 and EG1012 and MA1000 and MA1003 and (PH1005 or EG1001) or 36 credit points of subjects</i>		
	<b>BLOCK 2 (Mar-Apr)</b>	<b>Major</b> EE3010:03 Digital Signal Processing <i>PREREQ: 48 credit points from the Bachelor of Engineering(Hons) or Admittance to the Master of Engineering (Professional)</i>	
<b>Major</b> EE3300:03 Electronics Applications <i>PREREQ: EE2300 or Admittance to the Master of Engineering (Professional)</i>			

		Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
<b>2028</b>		<i>Time available for work placements with engineering employers</i>	EG4011:03 Thesis Part 1 of 2 <i>PREREQ: (72 credit points in 46110 or 102810 or 102809 or 116209) OR (96 credit points in 46210 or 102910 or 102909) OR (96 credit points in 103310 or 112610 or 1112609 or 116309)</i>	EG4012:03 Thesis Part 2 of 2 <i>PREREQ: EG4011</i>
		<b>BLOCK 2 (Mar-Apr)</b>		
		<b>Major</b> EE4600:03 Control System Design <i>PREREQ: EE3600 or Admission to the Master of Engineering (Professional)</i>	<b>Major</b> EE4310:03 Power Electronics <i>PREREQ: EE2201 and EE3600</i>	<b>Major</b> EE3700:03 Communications Systems Principles <i>PREREQ: EE2201</i>
		<b>BLOCK 2 (Mar-Apr)</b>		
	<b>Major</b> EE4500:03 Electrical and Electronic Systems Design Project <i>PREREQ: 48 credit points in Bachelor of Engineering, Bachelor of Engineering – Bachelor of Science or Bachelor of Engineering – Bachelor of Information Technology</i>	<b>Major</b> EE4400:03 Renewable System Integration <i>PREREQ: EE3400 or Admission to the Master of Engineering (Professional)</i>		

**COURSE HANDBOOK**

[Bachelor of Engineering \(Hons\) Handbook](#)  
[Electrical and Electronic Engineering Major](#)