

## Bachelor of Engineering (Honours) (Electrical and Electronic Engineering) – Bachelor of Information Technology

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 TR1, Block 1 and/or Block 2 subjects.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
<b>2026</b>	EG1000:03 Engineering 1	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or BR0202 or High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)</i>	EG1011:03 Statics and Dynamics <i>PREREQ: Allow concurrent enrolment in PH1005</i>
	EG1002:03 Computing and Sensors	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 MA1020, MA1000 and MA1008</i>	EG1010:03 Process Engineering
	MA1020:03 Mathematical Methods (or select 3 credit points of any undergraduate subjects if already satisfied via previous study)	<b>Major</b> CP1407:03 Introductory Machine Learning and Data Science	EG1012:03 Electric Circuits

\*Studying all EG Level 1 subjects in 1<sup>st</sup> year is recommended 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 your final year when completing your thesis.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	CP1402:03 Internet Fundamentals	<b>Major</b> EE2201:03 Circuit Theory <i>PREREQ: EG1012 and MA2000. Allow concurrent for MA2000</i>	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Select 3 credit points of any undergraduate subjects	CP1403:03 Design Thinking I
	Select 3 credit points of subjects from <a href="#">List 1</a>		CP1404:03 Programming II <i>PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	CP3407:03 Advanced Software Engineering <i>PREREQ: (CP1404 or CP1804 and 18 credit points of CP subjects) or (CP1404 or CP1804 and admittance to Bachelor of Engineering (course codes 102809 or 116209 or 116309))</i>	<b>Major</b> PH2019:03 Electromagnetism and Optics <i>PREREQ: (EG1012 or PH1005) and MA1003</i>	CP2404:03 Database Modelling
	<b>Major</b> CC2511:03 Embedded Systems Design <i>PREREQ: EG1002 or CP1401 or CP1404 or Admittance into Master of Engineering (Professional)</i>	Select 3 credit points of subjects from <a href="#">List 2</a>	CP2406:03 Programming III <i>PREREQ: CP1404 or CP1804 or CP1300</i>
	<b>Major</b> Select 3 credit points of any Level 1, 2, or 3 subjects <i>*Students in the Bachelor of Engineering - Bachelor of Information Technology already have CP1404 on their study plan and therefore instead of CP1404 must select 3 credit points of any undergraduate subjects</i>		<b>Major</b> EE2300:03 Electronics and Circuit Design <i>PREREQ: EG1012</i>

		Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2029		Time available for work placements with engineering employers	<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> EE3400:03 Power System Analysis <i>PREREQ: EE2201 or Admission to the Master of Engineering (Professional)</i>
		<b>BLOCK 2 (Mar-Apr)</b>		
		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>Major</b> EE3010:03 Digital Signal Processing <i>PREREQ: 48 credit points from the Bachelor of Engineering or Admission 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>
		<b>BLOCK 2 (Mar-Apr)</b>		
	<b>Major</b> EE3300:03 Electronics Applications <i>PREREQ: EE2300 or Admittance to the Master of Engineering (Professional)</i>	Select 3 credit points of subjects from <a href="#">List 2</a>	Select 3 credit points of subjects from <a href="#">List 2</a>	

		Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2030		Time available for work placements with engineering employers	EG4011:03 Thesis Part 1 of 2 <i>PREREQ: 60 credit points</i>	EG4012:03 Thesis Part 2 of 2 <i>PREREQ: EG4011</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> 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> EE4600:03 Control System Design <i>PREREQ: EE3600 or Admission to the Master of Engineering (Professional)</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 \(Honours\) \[Embedded\] – Bachelor of Information Technology Electrical and Electronic Engineering Major](#)