

Bachelor of Engineering (Honours) (Electronic Systems and Internet of Things 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 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			EG1010:03 Process Engineering
			MA1020:03 Preparatory Mathematics <i>Cairns students must enrol online</i>
			Select 3 credit points of any undergraduate subjects

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	EG1000:03 Engineering 1	EG1011:03 Statics and Dynamics <i>PREREQ: Allow concurrent enrolment in PH1005</i>	EG1012:03 Electric Circuits
	EG1002:03 Computing and Sensors	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>	Major CP1404:03 Programming II <i>PREREQ: CP1801 or CP1401 or CP1200 or EG1012 or CP2200 or SC1201</i>
	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>	PH1005:03 Newtonian Physics <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, Allow concurrent for MA1000</i>	

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Major EE2201:03 Circuit Theory <i>PREREQ: EG1012 and MA2000. Allow concurrent enrolment for MA2000</i>	Major EE2300:03 Electronics and Circuit Design <i>PREREQ: EG1012</i>
	Major CC2511:03 Embedded Systems Design <i>PREREQ: EG1002 or CP1300 or CP1404 or Admittance into Master of Engineering (Professional)</i>	Major PH2019:03 Electromagnetism and Optics <i>PREREQ: (EG1012 or PH1005) and MA1003</i>	Major MA3405:03 Statistical Data Mining for Big Data <i>PREREQ: MA2000 or MA2405 or SC2202 or SC2209</i>
	Major SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109 or admission to Bachelor of Business and Environmental Science or admission to 116209, 116309 or 116409</i>	Major CP3406:03 Mobile Computing <i>PREREQ: CP1404 or CP1804</i>	

2028	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	<i>Time available for work placements with engineering employers</i>	EG4011:03 Thesis Part 1 of 2 <i>PREREQ: 60 credit points</i>	EG4012:03 Thesis Part 2 of 2 <i>PREREQ: EG4011</i>
	BLOCK 2 (Mar-Apr)	Major CC3501:03 Embedded Systems Design and Interfacing <i>PREREQ:(CC2511 and CP1404) or Admittance to the Master of Engineering (Professional)</i>	Major 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>	Major EE3010:03 Digital Signal Processing <i>PREREQ: 48 credit points from the Bachelor of Engineering(Hons) or Admission to the Master of Engineering (Professional)</i>	Major EE3700:03 Communications Systems Principles <i>PREREQ: EE2201</i>

2029	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	<i>Time available for work placements with engineering employers</i>	Major CC4510:03 Digital Systems Design <i>PREREQ: CC3501 or Admission to Master of Engineering (Professional)</i>	
	BLOCK 2 (Mar-Apr)	Major MA3832:03 Neural Network and Deep Learning <i>PREREQ: MA3405 or MA5405 and CP1404 or admission to BSchHonsEmb 115809</i>	
	Major 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>	Major MA3832:03 Neural Network and Deep Learning <i>PREREQ: MA3405 or MA5405 and CP1404 or admission to BSchHonsEmb 115809</i>	
Select 3 credit points of any undergraduate subjects	Select 3 credit points of any undergraduate subjects		

COURSE HANDBOOK

[Bachelor of Engineering \(Honours\) Handbook](#)

[Electronics and Internet of Things Major](#)