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 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 *Cairns students must enrol online*

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*	EG1012:03 Electric Circuits
	EG1002:03 Computing and Sensors	PH1005:03 Newtonian Physics *PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, Allow concurrent for MA1000*	Select 3 credit points of any undergraduate subjects
	MA1000:03 Mathematical Foundations *PREREQ: MA1020 OR MA0020 OR BR0202 OR High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)*	**Major** CP1407:03 Introductory Machine Learning and Data Science	

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	MA2000:03 Mathematics for Scientists and Engineers *PREREQ: MA1003*	EG1011:03 Statics and Dynamics *PREREQ: Allow concurrent enrolment in PH1005*	**Major** CP1404:03 Programming II *PREREQ: CP1801 or CP1401 or CP1200 or EG1012 or CP2200 or SC1201*
	Major CC2511:03 Embedded Systems Design *PREREQ: EG1002 or CP1300 or CP1404 or Admittance into Master of Engineering (Professional)*	**Major** EE2201:03 Circuit Theory *PREREQ: EG1012 and MA2000. Allow concurrent enrolment for MA2000*	**Major** EE2300:03 Electronics and Circuit Design *PREREQ: EG1012*
	Select 3 credit points of any undergraduate subjects	**Major** PH2019:03 Electromagnetism and Optics *PREREQ: (EG1012 or PH1005) and MA1003*	**Major** EE3400:03 Power System Analysis *PREREQ: EE2201 or Admission to the Master of Engineering (Professional)*

	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2028	*Time available for work placements with engineering employers*	EG4011:03 Thesis Part 1 of 2 *PREREQ: 60 credit points*	EG4012:03 Thesis Part 2 of 2 *PREREQ: EG4011*
	BLOCK 2 (Mar-Apr) EG3000:03 Introduction to Systems Engineering and Project Management *PREREQ: EG1000 and EG1002 and EG1010 and EG1011 and EG1012 and MA1000 and MA1003 and (PH1005 or EG1001) or 36 credit points of subjects*	**Major** CC3501:03 Embedded Systems Design and Interfacing *PREREQ:(CC2511 and CP1404) or Admittance to the Master of Engineering (Professional)*	**Major** EE3600:03 Automatic Control 1 *PREREQ: EG1012 and MA2000 or Admittance into the Master of Engineering (Professional)*
	BLOCK 2 (Mar-Apr) **Major** EE3300:03 Electronics Applications *PREREQ: EE2300 or Admittance to the Master of Engineering (Professional)*	**Major** EE3010:03 Digital Signal Processing *PREREQ: At least 48 credit points from the Bachelor of Engineering(Hons) or Admission to the Master of Engineering (Professional)*	**Major** EE3700:03 Communications Systems Principles *PREREQ: EE2201*

	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2029	*Time available for work placements with engineering employers*	**Major** EE4310:03 Power Electronics *PREREQ: EE2201 and EE3600*	
	BLOCK 2 (Mar-Apr) **Major** EE4500:03 Electrical and Electronic Systems Design Project *PREREQ: 48 credit points in Bachelor of Engineering, Bachelor of Engineering – Bachelor of Science or Bachelor of Engineering – Bachelor of Information Technology*	**Major** EE4400:03 Renewable System Integration *PREREQ: EE3400 or Admission to the Master of Engineering (Professional)*	
	BLOCK 2 (Mar-Apr) **Major** EE4600:03 Control System Design *PREREQ: EE3600 or Admission to the Master of Engineering (Professional)*	Select 3 credit points of any undergraduate subjects	

COURSE HANDBOOK

Bachelor of Engineering (Honours) Handbook
Electrical and Electronic Engineering Major