

Bachelor of Engineering (Honours) (Electronic Systems and Internet of Things Engineering)

(MA1020 – Preparatory Mathematics required)

Useful study planning/enrolment resources:

[Course and Subject Handbook](#)
[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 you are receiving US Federal Aid, there are further compliance considerations. Please contact financialaid@jcu.edu.au to confirm compliance of your subject selections.

Student Resources: If you require advice about your study plan, choosing electives, or which subjects to enrol in, please contact your major advisor or degree coordinator ([CSE Course and Major Advisors](#)). For information on available elective subject options please also refer to the Study Area guide ([2026 JCU STUDY AREA GUIDE — College of Science & Engineering](#)).

Your plan may include subjects labelled with ***Intensive on-campus requirements**. These subjects involve mandatory on-campus or fieldwork attendance with extended hours over a dedicated face-to-face period. Please check the face-to-face dates for the subject in the [subject handbook](#) and do not enrol in subjects with overlapping face-to-face dates. For more information, see the CSE Student Guide to Succeeding in Trimester 2 Intensives on the CSE [Student Resources](#) webpage.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026			EG1010:03 Process Engineering
			MA1020:03 Preparatory Mathematics
			Select 3 credit points of any undergraduate subjects

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>	EG1011:03 Statics and Dynamics <i>PREREQ: 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, Allow concurrent for MA1020, MA1000 and MA1008</i>	EG1012:03 Electric Circuits
	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>		Major 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	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 CP1404 or CP1401</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 Admissions to 116209, 116309 or 116409</i>	Select 3 credit points of any undergraduate subjects	

2029	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)		
	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 CC3501:03 Embedded Systems Design and Interfacing <i>PREREQ: CC2511 and CP1404</i>	Major EE3600:03 Automation and Control Systems <i>PREREQ: EG1012 and MA2000</i>
	BLOCK 2 (Mar-Apr)		
	Major EE3901:03 Sensor Technologies <i>PREREQ: EE2201 and (CC2511 or CC2003)</i>	Major CP3406:03 Mobile Computing <i>PREREQ: CP1404 or CP1804</i>	Major EE3700:03 Communications Systems Principles <i>PREREQ: EE2201</i>

2030	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	<i>Time available for work placements with engineering employers</i>	Major EE3010:03 Digital Signal Processing <i>PREREQ: 48 credit points in (116209) Bachelor of Engineering, (116409) Bachelor of Engineering-Bachelor of Science, (116309) Bachelor of Engineering-Bachelor of Information Technology</i>	
	BLOCK 2 (Mar-Apr)		
	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)</i>	
	BLOCK 2 (Mar-Apr)		
	Major EE4600:03 Control System Design <i>PREREQ: EE3600</i>	Select 3 credit points of any undergraduate subjects	

COURSE HANDBOOK

[Bachelor of Engineering \(Honours\) Handbook](#)
[Electronic Systems and Internet of Things Major](#)