Bachelor of Engineering (Honours)[Embedded]

Electrical and Electronic Engineering

2027 ENTRY

Useful study planning / enrolment resources

Course and Subject Handbook	Academic Calendars	Class Registration	Enrolment Resources

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 (JCU STUDY AREA GUIDE — College of Science & Engineering).

Intensive on-campus requirements: Subjects labelled with *Intensive on-campus requirements 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.

How to read this planner

PREREQ Prerequisite information **ONLINE** Online offering **PLACEMENT** Placement requirement **INTENSIVE** Intensive on-campus requirement

2027

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques **PREREQ:** MA1000 OR MA1011 OR MA1009	EG1011:03 Statics and Dynamics **PREREQ:** PH1005
EG1002:03 Computing and Sensors	PH1005:03 Newtonian Physics **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	EG1010:03 Process Engineering
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)		EG1012:03 Electric Circuits

2028

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
MA2000:03 Mathematics for Scientists and Engineers **PREREQ:** MA1003	**Major** CP1407:03 Introductory Machine Learning and Data Science	**Major** CP1404:03 Programming II **PREREQ:** CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201
Major CC2511:03 Digital Logic and Embedded Systems **PREREQ:** EG1002 or CP1404 or CP1401 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
*Minor Subject/Elective Subject (depending on chosen structure)	*Minor Subject/Elective Subject (depending on chosen structure)	**Major** EE3400:03 Power System Analysis **PREREQ:** EE2201 or admittance into Master of Engineering (Prof)

*Recommended choosing elective subjects in 2nd year (for a total of 9 subjects this year). This choice allows for a lighter 7 subject load in 4th year when completing your thesis. Alternatively, this elective can be completed in 4th year if preferred.

2029

VAC WORK (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
Time available for work placements with engineering employers	**Major** PH2019:03 Electromagnetism and Optics **PREREQ:** (EG1012 or PH1005) and MA1003	**Major** EE3600:03 Automation and Control Systems **PREREQ:** (EG1012 and MA2000) or admittance into Master of Engineering (Professional)
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	**Major** CC3501:03 Embedded Systems Design and Interfacing **PREREQ:** (CC2511 and CP1404and EE2300) or admittance into Master of Engineering (Professional)	**Major** EE3700:03 Communications Systems Principles **PREREQ:** EE2201
BLOCK 2 (Mar-Apr) **Major** EE3300:03 Electronics Applications **PREREQ:** EE2300 or admittance into Master of Engineering (Prof)	**Major** EE3010:03 Digital Signal Processing **PREREQ:** At least 48 credit points from subjects in Bachelor of Engineering or Admission to Master of Engineering (Professional)	*Minor Subject/Elective Subject (depending on chosen structure)

2030

VAC WORK (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
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) **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 admittance into Master of Engineering (Prof)	*Minor Subject/Elective Subject (depending on chosen structure)
BLOCK 2 (Mar-Apr) **Major** EE4600:03 Control System Design **PREREQ:** EE3600 or admittance into Master of Engineering (Prof)	**Major** EE4310:03 Power Electronics **PREREQ:** EE2201 and EE3600	

Course handbook

Bachelor of Engineering (Honours)[Embedded]	Electrical and Electronic Engineering Major

Award Title	Bachelor of Engineering (Honours)
Abbreviation	BEng(Hons)
Credit Points	96
AQF Level	Level 8 - Bachelor Honours Degree
Location	Townsville Bebegu Yumba, Cairns Nguma-bada
Division	Academy
College	College of Science and Engineering
Expected Time to Complete	4 Years
Maximum Time to Complete	11 Years
Maximum Leave of Absence	3 Years
CRICOS Code	085458G