# Bachelor of Engineering (Honours) (Electronic Systems and Internet of Things 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 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 |
|---|---|---|---|
| 2025 | | | EG1010:03 Process Engineering |
| | | | EG1012:03 Electric Circuits |
| | | | MA1020:03 Mathematical Methods<br>*Cairns students must enrol online*<br>**OR**<br>Select 3 credit points of any undergraduate subjects |

| | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2026 | EG1000:03 Engineering 1 | EG1011:03 Statics and Dynamics<br>*PREREQ: PH1005* | CP1404:03 Programming II<br>*PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201* |
| | EG1002:03 Computing and Sensors | MA1003:03 Mathematical Techniques<br>*PREREQ: MA1000 or MA1011* | Select 3 credit points of subjects from List 1 |
| | MA1000:03 Mathematical Foundations<br>*PREREQ: MA1020 OR MA0020 OR BR0202 OR High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)* | PH1005:03 Newtonian Physics<br>*PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, Allow concurrent for MA1000* | |

| | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2027 | CP1402:03 Internet Fundamentals | **Major**<br>EE2201:03 Circuit Theory<br>*PREREQ: EG1012 and MA2000. Allow concurrent enrolment for MA2000* | CP1403:03 Design Thinking I |
| | MA2000:03 Mathematics for Scientists and Engineers<br>*PREREQ: MA1003* | **Major**<br>PH2019:03 Electromagnetism and Optics<br>*PREREQ: (EG1012 or PH1005) and MA1003* | **Major**<br>EE2300:03 Electronics and Circuit Design<br>*PREREQ: EG1012* |
| | **Major**<br>CC2511:03 Embedded Systems Design<br>*PREREQ: EG1002 or CP1300 or CP1404 or Admittance into Master of Engineering (Professional)* | | **Major**<br>MA3405:03 Statistical Data Mining for Big Data<br>*PREREQ: MA2000 or MA2405 or SC2202 or SC2209* |

| | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2028 | **Major**<br>SC2202:03 Quantitative Methods in Science<br>*PREREQ: SC1102 or SC1109 or admission to Bachelor of Business and Environmental Science or admission to 116209, 116309 or 116409* | **Major**<br>CP3406:03 Mobile Computing<br>*PREREQ: CP1404 or CP1804* | CP2404:03 Database Modelling |
| | CP3407:03 Advanced Software Engineering<br>*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))* | **Major**<br>MA3832:03 Neural Network and Deep Learning<br>*PREREQ: MA3405 or MA5405 and CP1404 or admission to BScHonsEmb 115809* | CP2406:03 Programming III<br>*PREREQ: CP1404 or CP1804 or CP1300* |
| | Select 3 credit points of subjects from List 2 | | Select 3 credit points of subjects from List 2 |

| | Vac work (Dec-Feb) | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2029 | *Time available for work placements with engineering employers* | EG4011:03 Thesis Part 1 of 2<br>*PREREQ: 60 credit points* | EG4012:03 Thesis Part 2 of 2<br>*PREREQ: EG4011* |
| | **BLOCK 2 (Mar-Apr)**<br>EG3000:03 Introduction to Systems Engineering and Project Management<br>*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**<br>CC3501:03 Embedded Systems Design and Interfacing<br>*PREREQ:(CC2511 and CP1404) or Admittance to the Master of Engineering (Professional)* | **Major**<br>EE3600:03 Automatic Control 1<br>*PREREQ: EG1012 and MA2000 or Admittance into the Master of Engineering (Professional)* |
| | **Major**<br>EE3901:03 Sensor Technologies<br>*PREREQ: EE2201 and (CC2511 or CC2003) or Admittance to the Master of Engineering (Professional)* | **Major**<br>EE3010:03 Digital Signal Processing<br>*PREREQ: 48 credit points from the Bachelor of Engineering(Hons) or Admission to the Master of Engineering (Professional)* | **Major**<br>EE3700:03 Communications Systems Principles<br>*PREREQ: EE2201* |

| | Vac work (Dec-Feb) | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2030 | *Time available for work placements with engineering employers* | **Major**<br>CC4510:03 Digital Systems Design<br>*PREREQ: CC3501 or Admission to Master of Engineering (Professional)* | |
| | **BLOCK 2 (Mar-Apr)** | | |
| | **Major**<br>EE4500:03 Electrical and Electronic Systems Design Project<br>*PREREQ: 48 credit points in Bachelor of Engineering, Bachelor of Engineering – Bachelor of Science or Bachelor of Engineering – Bachelor of Information Technology* | Select 3 credit points of subjects from **List 2** | |
| | **BLOCK 2 (Mar-Apr)** | | |
| | Select 3 credit points of any undergraduate subjects | Select 3 credit points of any undergraduate subjects | |

**COURSE HANDBOOK**

Bachelor of Engineering (Honours) [Embedded] – Bachelor of Information Technology
Electronic Systems and Internet of Things Engineering Major