

# Bachelor of Engineering (Honours) (Electrical and Electronic Engineering) – Bachelor of Information Technology

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](mailto: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                                                                       |
|      |             |             | EG1012:03 Electric Circuits                                                                         |
|      |             |             | MA1020:03 Mathematical Methods<br><b>OR</b><br>Select 3 credit points of any undergraduate subjects |

|      | TRIMESTER 1                                                                                                                                                                                        | TRIMESTER 2                                                                                                                                                                            | TRIMESTER 3                                                                                         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 2027 | EG1000:03 Engineering 1                                                                                                                                                                            | MA1003:03 Mathematical Techniques<br><i>PREREQ: MA1000 or MA1011 or MA1009</i>                                                                                                         | EG1011:03 Statics and Dynamics<br><i>PREREQ: PH1005</i>                                             |
|      | EG1002:03 Computing and Sensors                                                                                                                                                                    | PH1005:03 Newtonian Physics<br><i>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</i> | CP1403 Design Thinking I                                                                            |
|      | MA1000:03 Mathematical Foundations<br><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> |                                                                                                                                                                                        | CP1404:03 Programming II<br><i>PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201</i> |

|      | TRIMESTER 1                                                                                    | TRIMESTER 2                                                                                               | TRIMESTER 3                                                                       |
|------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2028 | CP1402:03 Internet Fundamentals                                                                | <b>Major</b><br>CP1407:03 Introductory Machine Learning and Data Science                                  | <b>Major</b><br>EE2300:03 Electronics and Circuit Design<br><i>PREREQ: EG1012</i> |
|      | MA2000:03 Mathematics for Scientists and Engineers<br><i>PREREQ: MA1003</i>                    | <b>Major</b><br>EE2201:03 Circuit Theory<br><i>PREREQ: EG1012 and MA2000. Allow concurrent for MA2000</i> | Select 3 credit points of subjects from <a href="#">List 1</a>                    |
|      | <b>Major</b><br>CC2511:03 Embedded Systems Design<br><i>PREREQ: EG1002 or CP1300 or CP1404</i> |                                                                                                           | Select 3 credit points of any undergraduate subjects                              |

| 2029 | TRIMESTER 1                                                                                                                                                                                                                                                                                    | TRIMESTER 2                                                                                           | TRIMESTER 3                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|      | CP3407:03 Advanced Software Engineering<br><i>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))</i>                                                                     | <b>Major</b><br>PH2019:03 Electromagnetism and Optics<br><i>PREREQ: (EG1012 or PH1005) and MA1003</i> | CP2404:03 Database Modelling                                             |
|      | Select 3 credit points of subjects from <a href="#">List 2</a>                                                                                                                                                                                                                                 | Select 3 credit points of subjects from <a href="#">List 2</a>                                        | CP2406:03 Programming III<br><i>PREREQ: CP1404 or CP1804 or CP1300</i>   |
|      | <b>Major</b><br>Select 3 credit points of any undergraduate subjects<br><i>*Students in the Bachelor of Engineering - Bachelor of Information Technology already have CP1404 on their study plan and therefore instead of CP1404 must select 3 credit points of any undergraduate subjects</i> |                                                                                                       | <b>Major</b><br>EE3400:03 Power System Analysis<br><i>PREREQ: EE2201</i> |

| 2030 | 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<br><i>PREREQ: 60 credit points</i>                                       | EG4012:03 Thesis Part 2 of 2<br><i>PREREQ: EG4011</i>                                        |
|      | BLOCK 2 (Mar-Apr)                                                                                                                                                                                                      |                                                                                                       |                                                                                              |
|      | EG3000:03 Introduction to Systems Engineering and Project Management<br><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> | <b>Major</b><br>CC3501:03 Embedded Systems Design and Interfacing<br><i>PREREQ: CC2511 and CP1404</i> | <b>Major</b><br>EE3600:03 Automation and Control Systems<br><i>PREREQ: EG1012 and MA2000</i> |
|      | BLOCK 2 (Mar-Apr)                                                                                                                                                                                                      |                                                                                                       |                                                                                              |
|      | <b>Major</b><br>EE3300:03 Electronics Applications<br><i>PREREQ: EE2300</i>                                                                                                                                            | Select 3 credit points of subjects from <a href="#">List 2</a>                                        | <b>Major</b><br>EE3700:03 Communications Systems Principles<br><i>PREREQ: EE2201</i>         |

| 2031 | Vac work (Dec-Feb)                                                                                                                                                  | TRIMESTER 2                                                                                     | TRIMESTER 3 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------|
|      | <i>Time available for work placements with engineering employers</i>                                                                                                | <b>Major</b><br>EE3010:03 Digital Signal Processing<br><i>PREREQ: At least 48 credit points</i> |             |
|      | BLOCK 2 (Mar-Apr)                                                                                                                                                   | <b>Major</b><br>EE4310:03 Power Electronics                                                     |             |
|      | <b>Major</b><br>EE4500:03 Electrical and Electronic Systems Design Project<br><i>PREREQ: 48 credit Bachelor of Engineering – Bachelor of Information Technology</i> |                                                                                                 |             |
|      | BLOCK 2 (Mar-Apr)                                                                                                                                                   | <b>Major</b><br>EE4400:03 Renewable System Integration<br><i>PREREQ: EE3400</i>                 |             |
|      | <b>Major</b><br>EE4600:03 Control System Design<br><i>PREREQ: EE3600</i>                                                                                            |                                                                                                 |             |

## COURSE HANDBOOK

[Bachelor of Engineering \(Honours\) – Bachelor of Information Technology](#)  
[Electrical and Electronic Engineering Major](#)