

Bachelor of Engineering (Honours) (Mechanical 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 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
			OR 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, 116409 or 116309. Allow concurrent for MA1020, MA1000 and MA1008</i>	CP1403 Design Thinking I
	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>		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	CP1402:03 Internet Fundamentals	Major CP1407:03 Introductory Machine Learning and Data Science	CP2404:03 Database Modelling
	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Select 3 credit points of subjects from List 1	Major EG2008:03 Fluid Mechanics <i>PREREQ: MA2000 and EG1011</i>
	Major CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>		Major ME2521:03 Dynamics of Machine Elements <i>PREREQ: EG1011</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2029	CP3407:03 Advanced Software Engineering <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>	Major EG2010:03 Materials Science and Engineering	CP2406:03 Programming III <i>PREREQ: CP1404 or CP1804 or CP1300</i>
	Select 3 credit points of subjects from List 2	Major ME3511:03 Dynamics and Acoustics <i>PREREQ: MA2000 and ME2521</i>	Major ME2525:03 Machine Element Design <i>PREREQ: CS2001</i>
	Select 3 credit points of any undergraduate subjects		Major ME3512:03 Heat and Mass Transfer <i>PREREQ: MA2000</i>

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)		
	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 ME3515:03 Advanced Manufacturing Engineering PREREQ: ME2525 and EG2010	Major EE3600:03 Automatic and Control Systems PREREQ: EG1012 and MA2000
	BLOCK 2 (Mar-Apr)		
	Major EG3001:03 Finite Element Analysis PREREQ: EG1002 and EG1011 and MA2000	Major ME3525:03 Mechanical Design and Bulk Materials Handling PREREQ: ME2525	Select 3 credit points of subjects from List 2

2031	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	Time available for work placements with engineering employers	Major EG4013:03 Asset Management, Maintenance and Reliability PREREQ: Completion of 24 credit points	
	BLOCK 2 (Mar-Apr)		
	Major ME4513:03 Advanced Fluid Mechanics PREREQ: CS3008 or EG2008	Major ME4522:03 Thermodynamics and Energy Conversion PREREQ: ME2512 or EG2008	
	BLOCK 2 (Mar-Apr)		
	Major ME4515:03 Advanced Mechanical Engineering Design PREREQ: ME3525	Select 3 credit points of subjects from List 2	

COURSE HANDBOOK

[Bachelor of Engineering \(Honours\) \[Embedded\] – Bachelor of Information Technology Mechanical Engineering Major](#)