

Bachelor of Engineering (Honours) [Embedded] (Civil Engineering) – Bachelor of Science (Science Major)

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.

Please note: The trimesters in which subjects are offered vary by major. Refer to the JCU Handbook for details on when subjects in your major are available.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025			EG1012:03 Electric Circuits
			EG1010:03 Process Engineering
			MA1020:03 Preparatory Mathematics <i>Cairns students must enrol online</i> (or SC1101:03 Science, Technology and Truth if already satisfied via previous study)

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	EG1000:03 Engineering 1	EG1011:03 Statics and Dynamics <i>PREREQ: Allow concurrent enrolment in PH1005</i>	Science Major
	EG1002:03 Computing and Sensors	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>	Science Major
	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>	PH1005:03 Newtonian Physics <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, Allow concurrent for MA1000</i>	

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Engineering Major CP1407:03 Introductory Machine Learning and Data Science	Engineering Major CS2002:03 Catchment, Stream and Lake Engineering
	SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109 or admission to Bachelor of Business and Environmental Science or admission to 116209, 116309 OR 116409</i> OR SC2209:03 Quantitative Methods in Science – Advanced <i>PREREQ: MA1003 and ((SC1109 plus 6 credit points of other Level 1 subjects) or admission in 116409)</i>	Engineering Major CS2003:03 Introduction to Structural Design <i>PREREQ: CS2001</i>	Engineering Major CS2005:03 Introduction to Geotechnical Engineering <i>PREREQ: EG1011</i>
	Engineering Major CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>		Science Major

2028	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	Science Major	Engineering Major CS3001:03 Concrete Engineering <i>PREREQ: CS2001</i>	Engineering Major EG2008:03 Fluid Mechanics <i>PREREQ: EG1011 and MA2000</i>
	Science Major	Science Major	Engineering Major CS3002:03 Soil Mechanics and Geology <i>PREREQ: CS2005</i>
	Select 3 credit points of any Level 2 or 3 Science Subject		Science Major

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>	Engineering Major CS3004:03 Transportation Engineering <i>PREREQ: 48 credit points of undergraduate subjects</i>	Engineering Major CS3003:03 Design of Steel and Concrete Structures <i>PREREQ: CS2003 and CS3000</i>
	BLOCK 2 (Mar-Apr)	Select 3 credit points of any Level 2 or 3 Science Subject <i>*Recommended students complete SC3003:03 Science Research Internship or SC3008:03 Professional Placement</i>	Science Major

2030	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	<i>Time available for work placements with engineering employers</i>	Engineering Major CS4005:03 Civil Engineering Design <i>PREREQ: CS3001 and CS3003 and CS4001 and CS4002</i>	
	BLOCK 2 (Mar-Apr)	Engineering Major CS4008:03 Water and Wastewater Engineering <i>PREREQ: 48 credit points of undergraduate subjects including CS2002 and EG1010</i>	
	Engineering Major CS4001:03 Foundation Engineering and Rock Mechanics <i>PREREQ: CS3002</i>		
	BLOCK 2 (Mar-Apr)	Engineering Major CS4010:03 Finite Element Analysis and Structural Dynamics <i>PREREQ: EG1002 and CS3000 and MA2000</i>	
	Engineering Major CS4002:03 Hydraulic and Coastal Engineering <i>PREREQ: EG2008 or CS3008</i>		

COURSE HANDBOOK

[Bachelor of Engineering \(Honours\) \[Embedded\] – Bachelor of Science Civil Engineering Major](#)