

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

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 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
2026	EG1000:03 Engineering 1	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>	EG1011:03 Statics and Dynamics <i>PREREQ: Allow concurrent enrolment in 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>	EG1010:03 Process Engineering
	MA1020:03 Preparatory Mathematics (or SC1101:03 Science, Technology and Truth if already satisfied via previous study)	Engineering Major CP1407:03 Introductory Machine Learning and Data Science	EG1012:03 Electric Circuits

*Studying all EG Level 1 subjects in 1st year is recommended as this provides the required knowledge to determine your major pathway (for a total of 9 subjects this year) This choice also allows for a lighter 7-subject load in your final year when completing your thesis.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	Engineering Major CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>	Engineering Major CS2003:03 Introduction to Structural Design <i>PREREQ: CS2001</i>	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	Science Major	Science Major	Engineering Major CS2005:03 Introduction to Geotechnical Engineering <i>PREREQ: EG1011</i>
	Select 3 credit points of any Level 2, 3 or 5 Science Subject		Engineering Major CS2002:03 Catchment, Stream and Lake Engineering

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109 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</i>	Engineering Major CS3001:03 Concrete Engineering <i>PREREQ: CS2001</i>	Engineering Major EG2008:03 Fluid Mechanics <i>PREREQ: EG1011 and MA2000</i>
	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Science Major	Science Major
	Science Major		Science Major

		TRIMESTER 2	TRIMESTER 3
2029	Vac work (Dec-Feb)		
	<i>Time available for work placements with engineering employers</i>	Engineering Major CS3004:03 Surveying Construction & Transportation Engineering <i>PREREQ: 48 credit points of undergraduate subjects</i>	Engineering Major CS3002:03 Soil Mechanics <i>PREREQ: CS2005</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 CS4008:03 Water and Wastewater Engineering <i>PREREQ: 48 credit points of undergraduate subjects including CS2002 and EG1010</i>	Engineering Major CS3003:03 Design of Steel and Concrete Structures <i>PREREQ: CS2003 and CS3000</i>
BLOCK 2 (Mar-Apr)			
	Engineering Major CS3000:03 Structural Analysis <i>PREREQ: CS2003 and MA2000</i>	Science Major	Science Major

		TRIMESTER 2	TRIMESTER 3
2030	Vac work (Dec-Feb)		
	<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)		
	Engineering Major CS4001:03 Foundation Engineering and Rock Mechanics <i>PREREQ: CS3002</i>	Engineering Major CS4005:03 Civil Engineering Design <i>PREREQ: CS3001 and CS3003 and CS4001 and CS4002</i>	Select 3 credit points of any Level 2, 3 or 5 Science Subject <i>*Recommended students complete SC3003:03 Science Research Internship or SC3008:03 Professional Placement</i>
BLOCK 2 (Mar-Apr)			
	Engineering Major CS4002:03 Hydraulic and Coastal Engineering <i>PREREQ: EG2008 or CS3008</i>	Engineering Major CS4010:03 Finite Element Analysis and Structural Dynamics <i>PREREQ: EG1002 and CS3000 and MA2000</i>	

COURSE HANDBOOK

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