

Bachelor of Engineering (Civil Engineering)

(MA1020 – Preparatory Mathematics Required)

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 Block 1 and Block 2 subjects, and/or Trimester 1 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025	EG1000:03 Engineering 1	EG1011:03 Statics and Dynamics <i>PREREQ: Allow concurrent enrolment in PH1005</i>	EG1010:03 Process Engineering
	EG1002:03 Computing and Sensors	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	EG1012:03 Electric Circuits
	MA1020:03 Preparatory Mathematics	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 MA1000 and MA1008</i>	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011</i>

*Recommended studying all EG Level 1 subjects in 1st year 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 4th year when completing your thesis.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Major CP1407:03 Introductory Machine Learning and Data Science	Major CS2005:03 Introduction to Geotechnical Engineering <i>PREREQ: EG1011</i>
	Major CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>	Major CS2003:03 Introduction to Structural Design <i>PREREQ: CS2001</i>	Major EG2008:03 Fluid Mechanics <i>PREREQ: MA2000 and EG1011</i>
		Select 3 credit points of any undergraduate subjects	Major CS2002:03 Catchment, Stream and Lake Engineering

	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2027	<i>Time available for work placements with engineering employers</i>	Major CS3001:03 Concrete Engineering <i>PREREQ: CS2001</i>	Major CS3002:03 Soil Mechanics and Geology <i>PREREQ: CS2005</i>
	BLOCK 2 (Mar-Apr)	Major CS3004:03 Transportation Engineering <i>PREREQ: 48 credit points of undergraduate subjects</i>	Major CS3003:03 Design of Steel and Concrete Structures <i>PREREQ: CS2003 and CS3000</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>	Select 3 credit points of any undergraduate subjects	Major CS4010:03 Finite Element Analysis and Structural Dynamics <i>PREREQ: EG1002 and CS3000 and MA2000</i>

		TRIMESTER 2	TRIMESTER 3
2028	Vac work (Dec-Feb)		
	<i>Time available for work placements with engineering employers</i>	EG4011:03 Thesis Part 1 of 2 <i>PREREQ: (72 credit points in 46110 or 102810 or 102809 or 116209) OR (96 credit points in 46210 or 102910 or 102909) OR (96 credit points in 103310 or 112610 or 1112609 or 116309)</i>	EG4012:03 Thesis Part 2 of 2 <i>PREREQ: EG4011</i>
	BLOCK 2 (Mar-Apr)	Major CS4005:03 Civil Engineering Design <i>PREREQ: CS3001 and CS3003 and CS4001 and CS4002</i>	Select 3 credit points of any undergraduate subjects
	Major CS4001:03 Foundation Engineering and Rock Mechanics <i>PREREQ: CS3002</i>		
BLOCK 2 (Mar-Apr)	Major CS4008:03 Water and Wastewater Engineering <i>PREREQ: 48 credit points of undergraduate subjects including CS2002 and EG1010</i>		
Major CS4002:03 Hydraulic and Coastal Engineering <i>PREREQ: EG2008 or CS3008</i>			

COURSE HANDBOOK

[Bachelor of Engineering \(Hons\) Handbook](#)

[Civil Engineering Major](#)