

Bachelor of Engineering (Honours) (Civil Engineering)

(MA1020 – Preparatory Mathematics Required)

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.

	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	Select 3 credit points of any undergraduate subjects	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>

**Students that have not completed the required Mathematics learning through High School studies are unable to complete an Engineering Minor and will be required to choose MA1020 Preparatory Mathematics as one of their Undergraduate elective subjects.

2027	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Major CP1407:03 Introductory Machine Learning and Data Science	EG1012:03 Electric Circuits
	Major CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>	Major CS2003:03 Introduction to Structural Design <i>PREREQ: CS2001</i>	Major CS2002:03 Catchment, Stream and Lake Engineering
		Select 3 credit points of any undergraduate subjects	Major CS2005:03 Introduction to Geotechnical Engineering <i>PREREQ: EG1011</i>

2028	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	<i>Time available for work placements with engineering employers</i>	Major CS3001:03 Concrete Engineering <i>PREREQ: CS2001</i>	Major EG2008:03 Fluid Mechanics <i>PREREQ: EG1011 and MA2000</i>
	BLOCK 2 (Mar-Apr)	Major CS3004:03 Surveying, Construction & Transportation Engineering <i>PREREQ: 48 credit points of undergraduate subjects</i>	Major CS3002:03 Soil Mechanics <i>PREREQ: CS2005</i>
	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</i>		
	BLOCK 2 (Mar-Apr)	Major CS4010:03 Finite Element Analysis and Structural Dynamics <i>PREREQ: EG1002 and CS3000 and MA2000</i>	Major CS3003:03 Design of Steel and Concrete Structures <i>PREREQ: CS2003 and CS3000</i>
	Major CS3000:03 Structural Analysis <i>PREREQ: CS2003 and MA2000</i>		

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)	Major	Select 3 credit points of any undergraduate subjects
	Major CS4001:03 Foundation Engineering and Rock Mechanics <i>PREREQ: CS3002</i>	CS4005:03 Civil Engineering Design <i>PREREQ: CS3001 and CS3003 and CS4001 and CS4002</i>	
	BLOCK 2 (Mar-Apr)	Major	
	Major CS4002:03 Hydraulic and Coastal Engineering <i>PREREQ: EG2008 or CS3008</i>	CS4008:03 Water and Wastewater Engineering <i>PREREQ: 48 credit points of undergraduate subjects including CS2002 and EG1010 or admittance into Master of Engineering (Prof)</i>	

COURSE HANDBOOK

[Bachelor of Engineering \(Honours\)](#)

[Civil Engineering Major](#)