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 *PREREQ: MA1020 or MA0020 or BR0202 or High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)*	EG1011:03 Statics and Dynamics *PREREQ: Allow concurrent enrolment in PH1005*
	EG1002:03 Computing and Sensors	PH1005:03 Newtonian Physics *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*	EG1010:03 Process Engineering
	MA1020:03 Preparatory Mathematics	Select 3 credit points of any undergraduate subjects	MA1003:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*

**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.

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

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

	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2029	*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) **Major** CS4001:03 Foundation Engineering and Rock Mechanics *PREREQ: CS3002*	**Major** CS4005:03 Civil Engineering Design *PREREQ: CS3001 and CS3003 and CS4001 and CS4002*	Select 3 credit points of any undergraduate subjects
	: **BLOCK 2 (Mar-Apr)** **Major** CS4002:03 Hydraulic and Coastal Engineering *PREREQ: EG2008 or CS3008*	**Major** CS4008:03 Water and Wastewater Engineering *PREREQ: 48 credit points of undergraduate subjects including CS2002 and EG1010 or admittance into Master of Engineering (Prof)*	

COURSE HANDBOOK

Bachelor of Engineering (Honours)
Civil Engineering Major