

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 you are receiving US Federal Aid, there are further compliance considerations. Please contact financialaid@jcu.edu.au to confirm compliance of your subject selections.

Student Resources: If you require advice about your study plan, choosing electives, or which subjects to enrol in, please contact your major advisor or degree coordinator ([CSE Course and Major Advisors](#)). For information on available elective subject options please also refer to the Study Area guide ([2026 JCU STUDY AREA GUIDE — College of Science & Engineering](#)).

Your plan may include subjects labelled with ****Intensive on-campus requirements***. These subjects involve mandatory on-campus or fieldwork attendance with extended hours over a dedicated face-to-face period. Please check the face-to-face dates for the subject in the [subject handbook](#) and do not enrol in subjects with overlapping face-to-face dates. For more information, see the CSE Student Guide to Succeeding in Trimester 2 Intensives on the CSE [Student Resources](#) webpage.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026			EG1010:03 Process Engineering
			MA1020:03 Preparatory Mathematics
			Select 3 credit points of any undergraduate subjects

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>	EG1011:03 Statics and Dynamics <i>PREREQ: 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>	EG1012:03 Electric Circuits
	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>		Select 3 credit points of any undergraduate subjects

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Major CP1407:03 Introductory Machine Learning and Data Science	Major CS2002:03 Catchment, Stream and Lake Engineering
	Major CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>	Major CS2003:03 Introduction to Structural Design <i>PREREQ: CS2001</i>	Major CS2005:03 Introduction to Geotechnical Engineering <i>PREREQ: EG1011</i>
	Select 3 credit points of any undergraduate subjects		Major EG2008:03 Fluid Mechanics <i>PREREQ: MA2000 and EG1011</i>

2029	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	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)		
	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 of subjects	Major CS3001:03 Concrete Engineering PREREQ: CS2001	Major CS3002:03 Soil Mechanics and Geology PREREQ: CS2005
	BLOCK 2 (Mar-Apr)		
	Major CS3000:03 Structural Analysis PREREQ: CS2003 and MA2000	Major CS3004:03 Transportation Engineering PREREQ: 48 credit points of undergraduate subjects	Major CS3003:03 Design of Steel and Concrete Structures PREREQ: CS2003 and CS3000

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

COURSE HANDBOOK

[Bachelor of Engineering \(Honours\) Handbook](#)
[Civil Engineering Major](#)