

Bachelor of Engineering (Honours) (Chemical 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

2027	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	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

2028	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Major CH1001:03 Chemistry: The Central Science <i>PREREQ: BR0301, CH1020, CH0020 or EG1010 or High School Senior Chemistry or admission to 71510 or 116910 or 70309 or 108209 or 70809 or 71809 or 115309 or 119209</i>	Major CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001 or CH1011 and allow concurrent for CH1011 and CH1001</i>
	Major CL2501:03 Process Analysis and Sustainability <i>PREREQ: EG1010</i>	Major CP1407:03 Introductory Machine Learning and Data Science	Major EG2008:03 Fluid Mechanics <i>PREREQ: EG1011 and MA2000</i>
		Major CL2502:03 Chemical Engineering Thermodynamics <i>Only Offered in Even Years</i> <i>PREREQ: CL2501 and MA2000</i>	Major CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 or CH1011</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	Major CL3030:03 Reactor Design Only Offered in Odd Years PREREQ: CL2501 and MA2000	Major EE3600:03 Automatic Control 1 PREREQ: EG1012 and MA2000
	BLOCK 2 (Mar-Apr)		
	Major CL3021:03 Mass Transfer Operations PREREQ: CL2501 and MA2000	Major CL4538:03 Bioprocess Engineering Only offered in Odd Years PREREQ: CL2501 and CL3021	Major ME3512:03 Heat and Mass Transfer PREREQ: MA2000

2030	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
	Time available for work placements with engineering employers	Major CL4072:03 Chemical Engineering design: (Part 2 of 2) PREREQ: CL4071	
	BLOCK 2 (Mar-Apr)		
	Major CL4040:03 Safety, Environment and Sustainability in the Process Industries PREREQ: CL2501	Major CL4537:03 Minerals and Solids Processing Only Offered in Even Years PREREQ: Must have completed 48 credit points toward BEng	
	BLOCK 2 (Mar-Apr)		
	Major CL4071:03 Chemical Engineering Design: (Part 1 of 2) PREREQ: (CL2502 or CL3010) and CL3021 and CL3030 and (CS3008 or EG2008) and ME3512	Select 3 credit points of any undergraduate subjects	

COURSE HANDBOOK

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