

Bachelor of Engineering (Honours) [Embedded] (Chemical Engineering) – Bachelor of Science (Science Major)

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 TR1, Block 1 and/or Block 2 subjects.

	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 (or SC1101:03 Science, Technology and Truth if already satisfied via previous study)	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 or MA1009</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 your final year when completing your thesis.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	Engineering Major CH1001:03 Chemistry: The Central Science <i>PREREQ: 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>	Engineering Major CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001 or CH1011 and allow concurrent for CH1011 and CH1001</i>
	SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109 or Admission to 116209, 116309 or 116409</i> OR SC2209:03 Quantitative Methods in Science – Advanced (TR1) <i>PREREQ: MA1003 and SC1109, plus 6cp of Level 1 Subjects</i>	Science Major	Engineering Major EG2008:03 Fluid Mechanics <i>PREREQ: EG1011 and MA2000</i>
	Science Major		Science Major

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	Engineering Major CL2501:03 Process Analysis and Sustainability <i>PREREQ: EG1010</i>	Engineering Major CP1407:03 Introductory Machine Learning and Data Science	Engineering Major CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 or CH1011</i>
	Science Major	Science Major	Engineering Major CL2502:03 Chemical Engineering Thermodynamics <i>PREREQ: CL2501 and MA2000</i>
	Science Major		Science Major

		TRIMESTER 2	TRIMESTER 3
2028	Vac work (Dec-Feb)		
	<i>Time available for work placements with engineering employers</i>	Engineering Major CL3030:03 Reactor Design <i>PREREQ: CL2501 and MA2000</i>	Engineering Major EE3600:03 Automatic Control 1 <i>PREREQ: EG1012 and MA2000 or Admittance into the Master of Engineering (Professional)</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>	Engineering Major CL4537:03 Minerals and Solids Processing <i>PREREQ: 48 credit points</i>	Science Major
	BLOCK 2 (Mar-Apr)		
	Engineering Major CL3021:03 Mass Transfer Operations <i>PREREQ: CL2501 and MA2000</i>	Engineering Major ME3512:03 Heat and Mass Transfer <i>PREREQ: MA2000</i>	Select 3 credit points of any Level 2 or 3 Science Subject

		TRIMESTER 2	TRIMESTER 3
2029	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)		
	Engineering Major CL4040:03 Safety, Environment and Sustainability in the Process Industries <i>PREREQ: CL2501</i>	Engineering Major CL4072:03 Chemical Engineering design: (Part 2 of 2) <i>PREREQ: CL4071</i>	Engineering Major CL4538:03 Bioprocess Engineering <i>PREREQ: CL2502 or CL3010 and CL3021 and CL3030</i>
	BLOCK 2 (Mar-Apr)		
	Major CL4071:03 Chemical Engineering Design: (Part 1 of 2) <i>PREREQ: (CL2502 or CL3010) and CL3021 and CL3030 and (CS3008 or EG2008) and ME3512</i>		Select 3 credit points of any Level 2 or 3 Science Subject <i>*Recommended students complete SC3003:03 Science Research Internship or SC3008:03 Professional Placement</i>

COURSE HANDBOOK

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