Bachelor of Engineering (Honours) (Chemical Engineering) – Bachelor of Information Technology

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
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 Mathematical Methods (or select 3 credit points of any undergraduate subjects if already satisfied via previous study)	**Major** CP1407:03 Introductory Machine Learning and Data Science	EG1012:03 Electric Circuits

*Studying all EG Level 1 subjects in 1st year is recommended 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.

2027	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	CP1402:03 Internet Fundamentals	**Major** CH1001:03 Chemistry: The Central Science *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*	MA1003:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*
	Major CL2501:03 Process Analysis and Sustainability *PREREQ: EG1010*	Select 3 credit points of subjects from List 1	CP1403:03 Design Thinking I
	Select 3 credit points of any undergraduate subjects		CP1404:03 Programming II *PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201*

2028	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	MA2000:03 Mathematics for Scientists and Engineers *PREREQ: MA1003*	**Major** CL2502:03 Chemical Engineering Thermodynamics *PREREQ: CL2501 and MA2000* *Only offered in even years*	**Major** CH1002:03 Chemistry: Principles and Applications *PREREQ: CH1001 or CH1011 and allow concurrent for CH1011 and CH1001*
	CP3407:03 Advanced Software Engineering *PREREQ: (CP1404 or CP1804 and 18 credit points of CP subjects) or (CP1404 or CP1804 and admittance to Bachelor of Engineering (course codes 102809 or 116209 or 116309))*	Select 3 credit points of subjects from List 2	**Major** CH2103:03 Analytical Chemistry *PREREQ: CH1001 or CH1011*
	Select 3 credit points of subjects from List 2		**Major** ME3512:03 Heat and Mass Transfer *PREREQ: MA2000*

	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2029	*Time available for work placements with engineering employers*	**Major** CL4538:03 Bioprocess Engineering *PREREQ: CL2501 AND CL3021* *Only offered in odd years*	CP2404:03 Database Modelling
	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** CL3030:03 Reactor Design *PREREQ: CL2501 and MA2000* *Only offered in odd years*	CP2406:03 Programming III *PREREQ: CP1404 or CP1804 or CP1300*
	BLOCK 2 (Mar-Apr) **Major** CL3021:03 Mass Transfer Operations *PREREQ: CL2501 and MA2000*	Select 3 credit points of subjects from List 2	**Major** EG2008:03 Fluid Mechanics *PREREQ: EG1011 and MA2000*

	Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
2030	*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** CL4040:03 Safety, Environment and Sustainability in the Process Industries *PREREQ: CL2501*	**Major** CL4072:03 Chemical Engineering design: (Part 2 of 2) *PREREQ: CL4071*	**Major** EE3600:03 Automatic Control 1 *PREREQ: EG1012 and MA2000 or Admittance into the Master of Engineering (Professional)*
	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*	**Major** CL4537:03 Minerals and Solids Processing *PREREQ: 48 credit points toward BEngineering* *Only offered in even years*	

COURSE HANDBOOK

Bachelor of Engineering (Honours) [Embedded] – Bachelor of Information Technology

Chemical Engineering Major