Bachelor of Engineering (Honours)[Embedded]

Chemical Engineering

2027 ENTRY

Useful study planning / enrolment resources

Course and Subject Handbook	Academic Calendars	Class Registration	Enrolment Resources

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 (JCU STUDY AREA GUIDE — College of Science & Engineering).

Intensive on-campus requirements: Subjects labelled with *Intensive on-campus requirements 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.

How to read this planner

PREREQ Prerequisite information **ONLINE** Online offering **PLACEMENT** Placement requirement **INTENSIVE** Intensive on-campus requirement

2027

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques **PREREQ:** MA1000 OR MA1011 OR MA1009	EG1011:03 Statics and Dynamics **PREREQ:** 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
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)	Minor Subject/Elective Subject (depending on chosen structure)	EG1012:03 Electric Circuits

2028

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
MA2000:03 Mathematics for Scientists and Engineers **PREREQ:** MA1003	**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	**Major** CH1002:03 Chemistry: Principles and Applications **PREREQ:** CH1001 or CH1011 and allow concurrent for CH1011 and CH1001
Major CL2501:03 Process Analysis and Sustainability **PREREQ:** EG1010	**Major** CP1407:03 Introductory Machine Learning and Data Science	**Major** EG2008:03 Fluid Mechanics **PREREQ:** EG1011 and MA2000
	Major CL2502:03 Chemical Engineering Thermodynamics **PREREQ:** CL2501 and MA2000 *Only offered in even years*	**Major** ME3512:03 Heat and Mass Transfer **PREREQ:** MA2000

2029

VAC WORK (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
Time available for work placements with engineering employers	**Major** CL3030:03 Reactor Design **PREREQ:** CL2501 and MA2000 *Only offered in odd years*	**Major** CH2103:03 Analytical Chemistry **PREREQ:** CH1001 or CH1011
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** CL4538:03 Bioprocess Engineering Systems **PREREQ:** CL2501 AND CL3021 *Only offered in odd years*	**Major** EE3600:03 Automation and Control Systems **PREREQ:** (EG1012 and MA2000) or admittance into Master of Engineering (Professional)
BLOCK 2 (Mar-Apr) **Major** CL3021:03 Mass Transfer Operations **PREREQ:** CL2501 and MA2000	Minor Subject/Elective Subject (depending on chosen structure)	Minor Subject/Elective Subject (depending on chosen structure)

2030

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) **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	Minor Subject/Elective Subject (depending on chosen structure)
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:** Must have completed 48 credit points toward BEngineering *Only offered in even years*	

Course handbook

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

Award Title	Bachelor of Engineering (Honours)
Abbreviation	BEng(Hons)
Credit Points	96
AQF Level	Level 8 - Bachelor Honours Degree
Location	Townsville Bebegu Yumba, Cairns Nguma-bada
Division	Academy
College	College of Science and Engineering
Expected Time to Complete	4 Years
Maximum Time to Complete	11 Years
Maximum Leave of Absence	3 Years
CRICOS Code	085458G