

## Bachelor of Engineering (Honours) (Mechanical Engineering)

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](mailto: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 Block 1 and Block 2 subjects, and/or Trimester 1 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
<b>2025</b>	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	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011</i>	EG1012:03 Electric Circuits
	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	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>	

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
<b>2026</b>	MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	<b>Major</b> CP1407:03 Introductory Machine Learning and Data Science	<b>Major</b> EG2008:03 Fluid Mechanics <i>PREREQ: MA2000 and EG1011</i>
	<b>Major</b> CS2001:03 Engineering Strength of Materials <i>PREREQ: EG1011</i>	<b>Major</b> EG2010:03 Materials Science and Engineering	<b>Major</b> ME2521:03 Dynamics of Machine Elements <i>PREREQ: EG1011</i>
	Minor Subject/Elective Subject <i>(depending on chosen structure)</i>	Minor Subject/Elective Subject <i>(depending on chosen structure)</i>	<b>Major</b> ME2525:03 Machine Element Design <i>PREREQ: CS2001</i>

\*Recommended choosing 2 minor/elective subjects in 2<sup>nd</sup> year (for a total of 9 subjects this year) This choice allows for a lighter 7-subject load in 4<sup>th</sup> year when completing your thesis. Alternatively, choose only 1 minor/elective subject in 2<sup>nd</sup> year (for a total of 8 subjects).

		Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
<b>2027</b>		<i>Time available for work placements with engineering employers</i>	<b>Major</b> ME3511:03 Dynamics and Acoustics <i>PREREQ: MA2000 and ME2521</i>	<b>Major</b> ME3525:03 Mechanical Design <i>PREREQ: ME2525</i>
		<b>BLOCK 2 (Mar-Apr)</b>		
		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>	<b>Major</b> ME3512:03 Heat and Mass Transfer <i>PREREQ: MA2000</i>	<b>Major</b> EE3600:03 Automatic Control 1 <i>PREREQ: EG1012 and MA2000</i>
		<b>BLOCK 2 (Mar-Apr)</b>		
	<b>Major</b> EG3001:03 Finite Element Analysis <i>PREREQ: EG1002 and EG1011 and MA2000</i>	<b>Major</b> ME3515:03 Advanced Manufacturing Engineering <i>PREREQ: ME2525 and EG2010</i>	Minor Subject/Elective Subject <i>(depending on chosen structure)</i>	

		Vac work (Dec-Feb)	TRIMESTER 2	TRIMESTER 3
<b>2028</b>		<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>
		<b>BLOCK 2 (Mar-Apr)</b>		
		<b>Major</b> ME4515:03 Advanced Mechanical Engineering Design <i>PREREQ: ME3525</i>	<b>Major</b> EG4013:03 Asset Management, Maintenance and Reliability <i>PREREQ: Completion of 24 credit points</i>	Minor Subject/Elective Subject <i>(depending on chosen structure)</i>
		<b>BLOCK 2 (Mar-Apr)</b>		
	<b>Major</b> ME4513:03 Advanced Fluid Mechanics <i>PREREQ: CS3008 OR EG2008</i>	<b>Major</b> ME4522:03 Energy, Conversion and Refrigeration <i>PREREQ: EG2008 or CS3008</i>		

**COURSE HANDBOOK**

[Bachelor of Engineering \(Hons\) Handbook](#)  
[Mechanical Engineering Major](#)