

Bachelor of Engineering (Mechanical Engineering) – Bachelor of Information Technology – 2020 Mid Year Entry

Teaching Period 2, 2020	
Study Period <u>2</u>	CP1402 :03 Internet Fundamentals
Study Period <u>2</u>	EG1010 :03 Process Engineering
Study Period <u>2</u>	EG1012 :03 Electric Circuits
Study Period <u>2</u>	MA1000 :03 Mathematical Foundations PREREQ: MA1020, Mathematics B or Mathematics C
Teaching Period 1, 2021	
Study Period <u>1</u>	EG1000 :03 Engineering 1
Study Period <u>1</u>	EG1002 :03 Computing and Sensors
Study Period <u>1</u>	PH1005 :03 Advanced Stream Physics 1 PREREQ: Mathematics B, MA1020, MA1000 or MA1008
Study Period <u>1</u>	CP2404 :03 Database Modelling
Teaching Period 2, 2021	
Study Period <u>2</u>	EG1011 :03 Statics and Dynamics PREREQ: PH1005 or Mathematics C
Study Period <u>2</u>	MA1003 :03 Mathematical Techniques PREREQ: MA1000, MA1011 or MA1009
Study Period <u>2</u>	CP1403 :03 Design Thinking
Study Period <u>2</u>	Major Subject EG2010 :03 Materials Science and Engineering
Teaching Period 1, 2022	
Study Period <u>1</u>	CP1404 :03 Programming II PREREQ: CP1801, CP1401, EG1002 or CP2200
Study Period <u>1</u>	MA2000 :03 Mathematics for Scientists and Engineers PREREQ: MA1003
Study Period <u>1</u>	Major Subject CS2001 :03 Engineering Strength of Materials PREREQ: EG1011
Study Period <u>1</u>	Select 3 credit points of subjects from List 1
Teaching Period 2, 2022	
Study Period <u>2</u>	EG3000 :03 Engineering Project Management PREREQ: EG1000, EG1002, EG1010, EG1011, EG1012, MA1000, MA1003 and PH1005 or 36cp of subjects
Study Period <u>2</u>	CP2406 :03 Programming III PREREQ: CP1404 or CP1804
Study Period <u>2</u>	Major Subject ME2525 :03 Machine Element Design PREREQ: CS2001
Study Period <u>2</u>	Major Subject ME3512 :03 Heat and Mass Transfer PREREQ: MA2000

Teaching Period 1, 2023		Teaching Period 2, 2023	
Study Period 1	Major Subject ME2521 :03 Dynamics of Machine Elements PREREQ: EG1011	Study Period 2	CP3407 :03 Advanced Software Engineering PREREQ: CP1404, CP1804 and 18cp of CP Subjects
Study Period 1	Major Subject ME2512 :03 Thermofluid Mechanics PREREQ: EG1011	Study Period 2	Major Subject CS3008 :03 Fluid Mechanics PREREQ: MA2000 and ME2512
Study Period 1	Major Subject EG3001 :03 Finite Element Analysis PREREQ: EG1002 and EG1011 and MA2000	Study Period 2	Major Subject EE3600 :03 Automatic Control 2 PREREQ: EG1012 and MA2000
Study Period 1	Select 3 credit points of subjects from List 2	Study Period 2	Major Subject ME3525 :03 Mechanical Design PREREQ: EG3001 and ME2525
Teaching Period 1, 2024		Teaching Period 2, 2024	
Study Period 1	EG4011 :03 Thesis Part 1 of 2 PREREQ: 96 credit points of subjects	Study Period 2	EG4012 :03 Thesis Part 2 of 2 PREREQ: EG4011
Study Period 1	Major Subject ME3511 :03 Dynamics and Acoustics PREREQ: MA2000 and ME2521	Study Period 2	Major Subject EG4013 :03 Asset Management, Maintenance and Reliability PREREQ: EG1000, EG1002, EG1010, E1011, EG1012, MA1000, MA1003 and (Ph1005 or EG1001) or 36 credit points of subjects
Study Period 1	Major Subject ME3515 :03 Advanced Manufacturing Engineering PREREQ: ME2525 and (ME2518 or EG2010)	Study Period 2	Major Subject ME4522 :03 Energy, Conversion and Refrigeration PREREQ: ME2512
Study Period 1	Select 3 credit points of subjects from List 3	Study Period 2	Major Subject ME4515 :03 Advanced Mechanical Engineering Design PREREQ: ME3525
Teaching Period 1, 2025			
Study Period 1	Major Subject ME4513 :03 Advanced Fluid Mechanics PREREQ: CS3008		
Study Period 1	Select 3 credit points of subjects from List 2		
Study Period 1	Select 3 credit points of subjects from List 2		
Study Period 1	Select 3 credit points of subjects from List 3		

PROFESSIONAL ACCREDITATION STATUS

This course is accredited by Engineers Australia. Graduates are immediately eligible for graduate membership of Engineers Australia and, following a period of professional practice, may become Chartered Professional Engineers (CPEng).

SPECIAL ADMISSION REQUIREMENTS

Approved exposure to Professional Engineering Practice, including required activities and industry placement, equivalent to a minimum 60 days full-time industry placement.

Must hold current Senior First Aid certificate at the time of graduation.

SPECIAL MAJOR REQUIREMENTS

Some subjects in each of the majors may require students to participate in field trips, site visits or other off-campus activities. A fee may be charged by the College for costs associated with these trips.

COURSE PROGRESSION REQUISITES

Where there is overlap between the core subjects for the course and the chosen major, students must contact the College to add substitute subjects to their study plans.

It is strongly recommended that in this situation students take extra engineering subjects as listed under the corresponding major in the Bachelor of Engineering (Honours) single degree.

SPECIAL ASSESSMENT REQUIREMENTS

The engineering thesis topic must be specific to the student's chosen engineering major.

ADDITIONAL INFORMATION

[Bachelor of Engineering – Bachelor of Information Technology course handbook](#)

[Mechanical Engineering major handbook](#)