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

		Teaching Period 2, 2020	
		Study Period 2	EG1010:03 Process Engineering **Assumed Knowledge: Senior Mathematics B, Mathematics C or MA1020**
		Study Period 2	EG1012:03 Electric Circuits **Assumed Knowledge: Senior Mathematics B or Mathematics C or MA1020**
		Study Period 2	MA1000:03 Mathematics Foundations **PREREQ: MA1020 or Mathematics B or Mathematics C**
Teaching Period 1, 2021		**Teaching Period 2, 2021**	
Study Period 3	MA1003:03 Mathematical Techniques **PREREQ: MA1000 or MA1011 or MA1009**		
Study Period 1	PH1005:03 Advanced Stream Physics 1 **PREREQ: Mathematics B or MA1020 or MA1000 or MA1008**	Study Period 2	EG1011:03 Statics and Dynamics **PREREQ: PH1005 or (Mathematics C and Physics)**
Study Period 1	EG1000:03 Engineering 1	Study Period 2	**Major Subject** EG2010:03 Materials Science and Engineering
Study Period 1	EG1002:03 Computing and Sensors	Study Period 2	**Major Subject** EE3600:03 Automatics Control 2 **PREREQ: EG1012 and MA2000**
Study Period 1	MA2000:03 Mathematics for Scientists and Engineers **PREREQ: MA1003**	Study Period 2	**Major Subject** ME3512:03 Heat and Mass Transfer **PREREQ: MA2000**
Teaching Period 1, 2022		**Teaching Period 2, 2022**	
Study Period 1	**Major Subject** CS2001:03 Engineering Strength of Materials **PREREQ: EG1011**	Study Period 2	**Major Subject** EG4013:03 Asset Management, Maintenance and Reliability **PREREQ: (EG1000, EG1002, EG1010, EG1011, EG1012, MA1000, MA1003 and PH1005 or EG1001) or 36cp of subjects**
Study Period 1	**Major Subject** ME2512:03 Thermofluid Mechanics **PREREQ: EG1011**	Study Period 2	**Major Subject** ME2525:03 Machine Element Design **PREREQ: CS2001**
Study Period 1	**Major Subject** ME2521:03 Dynamics of Machine Elements **PREREQ: EG1011**	Study Period 2	**Major Subject** CS3008:03 Fluid Mechanics **PREREQ: MA2000 and ME2512**
Study Period 1	Minor Subject/Elective Subject (depending on chosen structure)	Study Period 2	Minor Subject/Elective Subject (depending on chosen structure)

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Teaching Period 1, 2023		Teaching Period 2, 2023	
		Study Period 7	EG3000:03 Engineering Project Management **PREREQ: EG1000 and, EG1002 and EG1010 and EG1011 and EG1012 and MA1000 and MA1003 and (PH1005 or EG1001) or 36 credit points**
Study Period 1	**Major Subject** ME3515:03 Advanced Manufacturing Engineering **PREREQ: ME2525**	Study Period 2	**Major Subject** ME3525:03 Mechanical Design **PREREQ: EG3001 and ME2525**
Study Period 1	**Major Subject** EG3001:03 Finite Element Analysis **PREREQ: EG1002 and EG1011 and MA2000**	Study Period 2	**Major Subject** ME4515:03 Advanced Mechanical Engineering Design **PREREQ: ME3525**
Study Period 1	**Major Subject** ME3511:03 Dynamics and Acoustics **PREREQ: MA2000 and ME2521**	Study Period 2	**Major Subject** ME4522:03 Energy, Conversion and Refrigeration **PREREQ: ME2512**
Study Period 1	EG4011:03 Thesis Part 1 of 2 **PREREQ: 72 credit points**	Study Period 2	EG4012:03 Thesis Part 2 of 2 **PREREQ: EG4011**
Teaching Period 1, 2024			
Study Period 1	**Major Subject** ME4513:03 Advanced Fluid Mechanics **PREREQ: CS3008**		
Study Period 1	Minor Subject/Elective Subject (depending on chosen structure)		
Study Period 1	Minor Subject/Elective Subject (depending on chosen structure)		

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).

ADDITIONAL COMPLETION 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 REQUIREMENTS (MAJORS AND MINORS)

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

SPECIAL ASSESSMENT REQUIREMENTS

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

ADDITIONAL INFORMATION

JAMES COOK UNIVERSITY AUSTRALIA

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Bachelor of Engineering course handbook
Mechanical Engineering major handbook