

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of Engineering (Honours) – Bachelor of Science NAME

BEng. MAJOR Mechanical Engineering (MEN) - BSc MAJOR Choose a Major from Table B

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to Subject Search. If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: EG1000 Engineering 1	Degree Core: EG1010 Process Engineering
Year 1	Degree Core: EG1002 Computing and Sensors	Degree Core: EG1011 Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
×	Degree Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: EG1012 Electric Circuits
	Degree Core: PH1005 Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	Degree Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	BEng Major Core: EG2010 Materials Science and Engineering
Year 2	BEng Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	BEng Major Core: ME2525 Machine Element Design PREREQ: CS2001
	BEng Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	BSc Major Core:
	BSc Major Core:	BSc Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
8	Degree Core: EG3000 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 36CP	BEng Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
Year	BEng Major Core: ME2521 Dynamics of Machine Elements PREREQ: EG1011	BEng Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	BSc Major Core:	BEng Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	BSc Major Core:	BEng Major Core: ME3525 Mechanical Design PREREQ: ME2525

	Study Period 1 - SP1	Study Period 2 - SP2
	BEng Major Core: EG3001 Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	BEng Major Core: EG4013 Asset Management, Maintenance and Reliability PREREQ: (EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)) OR 36CP
Year 4	BEng Major Core: ME3511 Dynamics and Acoustics PREREQ: MA2000 AND ME2521	BEng Major Core: ME4515 Advanced Mechanical Engineering Design PREREQ: ME3525
	BEng Major Core: ME3515 Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	BSc Major Core:
	BSc Major Core:	BSc Major Core:

^{*}Will need to swap with a List subject depending on the year.

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: EG4011 Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: EG4012 Thesis Part 2 of 2 PREREQ: EG4011
Year 5	BEng Major Core: ME4513 Advanced Fluid Mechanics PREREQ: CS3008	BEng Major Core: ME4522 Energy, Conversion and Refrigeration PREREQ: ME2512
>	<u>List Options</u> : see information below	<u>List Options</u> : see information below
	<u>List Options</u> : see information below	<u>List Options</u> : see information below

Further Degree Options:

Select 2 subjects from List 1^* **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a <u>BSc Major from Table B</u>

<u>List 1</u> :		
Study Period 1 – SP1	Study Period 2 – SP2	
CL2501 Process Analysis – TSV ONLY PREREQ: EG1010	CP1404 Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR E SC1201	G1002 OR CP2200 OR
EV2301 Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS	EA1110 Evolution of the Earth	
PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	CC2511 – Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404 CP2406 Programming III PREREQ: CP1404 OR CP1804 OR CP1300 CS2004 Surveying and Construction – TSV ONLY, offered ODD years only EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS	
PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003		
EE4000 Signal Processing 3 – TSV only PREREQ: 48CP		
ME4521 Bulk Materials Handling – TSV only, offered ODD years only PREREQ: 48CP		
MA2211 - Discrete Mathematics – TSV ONLY PREREQ: MATHS B	MA2210 - Linear Algebra PREREQ: MA1003	
	PH2240 Atomic and Nuclear Physics – TSV ONLY PREREQ: PH2002 AND MA1003 CC3501 Computer Interfacing and Control PREREQ: CC2511	
	SP1	1 (Nov-Feb)
		nced Geographic
	Information S PREREQ: AT LEA: INCLUDING EV25	

^{*} If undertaking MA1020 only choose 1 subject from this list.