

RECOMMENDED STUDY PLAN

2022

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
Year 1	Degree Core: <u>EG1000</u> Engineering 1	Degree Core: <u>EG1010</u> Process Engineering
	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	Degree Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	Degree Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
	Degree Core: <u>EG1002</u> Computing and Sensors	Degree Core: <u>EG1012</u> Electric Circuits

*Students may be required to take MA1020 in SP3 which will count as an elective line.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	BEng Major Core: <u>ME2525</u> Machine Element Design PREREQ: CS2001
	BEng Major Core: <u>CS2001</u> Engineering Strength of Materials PREREQ: EG1011	BEng Major Core: <u>EG2010</u> Materials Science and Engineering
	BEng Major Core: <u>ME2512</u> Thermofluid Mechanics PREREQ: EG1011	BEng Major Core: <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512
	BSc Major Core:	BSc Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	Degree Core: <u>EG3000</u> 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: <u>ME3512</u> Heat and Mass Transfer PREREQ: MA2000
	BEng Major Core: <u>ME2521</u> Dynamics of Machine Elements PREREQ: EG1011	BEng Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	BSc Major Core:	BSc Major Core:
	Elective: REQUIRED FOR BSc <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT OR <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Elective: see below for details

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	BEng Major Core: <u>EG3001</u> Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	BEng Major Core: <u>ME3525</u> Mechanical Design PREREQ: ME2525
	BEng Major Core: <u>ME3511</u> Dynamics and Acoustics PREREQ: MA2000 AND ME2521	BEng Major Core: <u>EG4013</u> 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
	BSc Major Core:	BSc Major Core:
	BSc Major Core:	BSc Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 5	Degree Core: <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	BEng Major Core: <u>ME3515</u> Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	BEng Major Core: <u>ME4522</u> Energy, Conversion and Refrigeration PREREQ: ME2512
	BEng Major Core: <u>ME4513</u> Advanced Fluid Mechanics PREREQ: CS3008	BEng Major Core: <u>ME4515</u> Advanced Mechanical Engineering Design PREREQ: ME3525
	Elective: see below for details	Elective: see below for details

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

Further Degree Options:

Select any 2 undergraduate subjects (f required to undertake MA1020 Preparatory Mathematics, select 1 subject **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a BSc Major from Table B