

## RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of Engineering (Honours) MAJOR Mechanical Engineering (MEN)

NAME \_\_\_\_\_ MINOR Software (SOF)

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>EG1002</u> Computing and Sensors	Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: <u>EG1012</u> Electric Circuits
	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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: <u>EG2010</u> Materials Science and Engineering
	Major Core: <u>CS2001</u> Engineering Strength of Materials PREREQ: EG1011	Major Core: <u>ME2525</u> Machine Element Design PREREQ: CS2001
	Major Core: <u>ME2521</u> Dynamics of Machine Elements PREREQ: EG1011	Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: <u>ME2512</u> Thermofluid Mechanics PREREQ: EG1011	Minor Core: <u>CP1404</u> Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201

	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	Major Core: <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: <u>EG3001</u> Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	Major Core: <u>ME3525</u> Mechanical Design PREREQ: ME2525
	Major Core: <u>ME3511</u> Dynamics and Acoustics PREREQ: MA2000 AND ME2521	Major Core: <u>ME3512</u> Heat and Mass Transfer PREREQ: MA2000
	Major Core: <u>ME3515</u> Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	Minor Core: <u>CP2406</u> Programming III PREREQ: CP1404 OR CP1804 OR CP1300

\*Will need to swap with a subject in Year 4 depending on the year.

<b>Year 4</b>	<b>Study Period 1 - SP1</b>	<b>Study Period 2 - SP2</b>
	<b>Degree Core:</b> <u>EG4011</u> Thesis Part 1 of 2 <b>PREREQ:</b> 72CP	<b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2 <b>PREREQ:</b> EG4011
	<b>Major Core:</b> <u>ME4513</u> Advanced Fluid Mechanics <b>PREREQ:</b> CS3008	<b>Major Core:</b> <u>ME4515</u> Advanced Mechanical Engineering Design <b>PREREQ:</b> ME3525
	<b>Minor Core List:</b>	<b>Major Core:</b> <u>ME4522</u> Energy, Conversion and Refrigeration <b>PREREQ:</b> ME2512
	<b>Minor Core List:</b>	<b>Major Core:</b> <u>EG4013</u> Asset Management, Maintenance and Reliability <b>PREREQ:</b> (EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)) OR 36CP

**Further Degree Options:**

<b>Minor Core List 1:</b>	
<b>Study Period 1 – SP1</b>	<b>Study Period 2 – SP2</b>
<u>CP1402</u> Internet Fundamentals - <i>SP1 External, also SP2 Internal</i>	<u>CP2412</u> Game Design and Technologies - <i>External</i> <b>PREREQ:</b> 6CP OF CP SUBJECTS
<u>CP2404</u> Database Modelling	<u>CP3404</u> Information Security <b>PREREQ:</b> 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS
<u>CP2410</u> Algorithms and Data Structures - <i>External</i> <b>PREREQ:</b> 6CP CP SUBJECTS	<u>CP3407</u> Advanced Software Engineering - <i>External</i> <b>PREREQ:</b> CP1404
<u>CP2411</u> 3D Modelling and Animation - <i>External</i> <b>PREREQ:</b> 6CP CP SUBJECTS	
<u>CP3406</u> Mobile Computing <b>PREREQ:</b> CP1404	