

## RECOMMENDED STUDY PLAN

2021

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

NAME \_\_\_\_\_ MINOR Mechatronics (MCH)

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>ME2512</u> Thermofluid Mechanics PREREQ: EG1011	Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: <u>ME2521</u> Dynamics of Machine Elements PREREQ: EG1011	Minor Core: <u>CC2511</u> Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	Major Core: <u>EG3001</u> Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	Major Core: <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: <u>ME3515</u> Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	Major Core: <u>ME3512</u> Heat and Mass Transfer PREREQ: MA2000
	Major Core: <u>ME3511</u> Dynamics and Acoustics PREREQ: MA2000 AND ME2521	Major Core: <u>ME3525</u> Mechanical Design PREREQ: ME2525
	Minor Core List 1:	Minor Core: <u>CC3501</u> Computer Interfacing and Control PREREQ: CC2511

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

Year 4	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Degree Core:</b> <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	<b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	<b>Degree Core:</b> <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	<b>Major Core:</b> <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
	<b>Major Core:</b> <u>ME4513</u> Advanced Fluid Mechanics PREREQ: CS3008	<b>Major Core:</b> <u>ME4515</u> Advanced Mechanical Engineering Design PREREQ: ME3525
	<b>Minor Core List 1:</b>	<b>Major Core:</b> <u>ME4522</u> Energy, Conversion and Refrigeration PREREQ: ME2512

**Further Degree Options:**

<b>Minor Core List 1:</b>	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CC2510</u> Digital Logic and Computing Methods PREREQ: EG1002 OR CP1300	<u>EE2300</u> Electronics 1 PREREQ: EG1012
<u>EE2201</u> Circuit Theory PREREQ: EG1012 AND MA2000	<u>EE4600</u> Automatic Control 2 PREREQ: EE2600