

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

Mid-Year Entry 2021

DEGREE	Bachelor of Engineering (Honours)	мајок Mechanical Engineering (MEN
NAME		

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to <u>Subject Search</u>. 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.

MID-YEAR		Study Period 2 - SP2
	Degree Core: EG1010 Process Engineering	
	Degree Core: EG1012 Electric Circuits	
×	Mid Year completion not possible	List 1 <u>OR</u> Choose a Minor
	List 1 <u>OR</u> Choose a Minor	

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: EG1000 Engineering 1	Degree Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
	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	Major Core: EG2010 Materials Science and Engineering
	Degree Core: PH1005 Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	List 1 OR Choose a Minor

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	Major Core: ME2521 Dynamics of Machine Elements PREREQ: EG1011	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	Major Core: ME2525 Machine Element Design PREREQ: CS2001

Year 4	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
	Major Core: ME3511 Dynamics and Acoustics PREREQ: MA2000 AND ME2521	Major Core: ME4522 Energy, Conversion and Refrigeration PREREQ: ME2512
	Major Core: EG3001 Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	Major Core: ME3525 Mechanical Design PREREQ: ME2525
	Major Core: ME3515 Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	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

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

Year 5	Study Period 1 - SP1	Study Period 2 - SP2
	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	Major Core: ME4515 Advanced Mechanical Engineering Design PREREQ: ME3525
	Major Core: ME4513 Advanced Fluid Mechanics PREREQ: CS3008	
	List 1 <u>OR</u> Choose a Minor	

Further Degree Options:

<u>List 1</u> :	
Study Period 1 – SP1	Study Period 2 – SP2
CL2501 Process Analysis – TSV ONLY PREREQ: EG1010	<u>CP1404</u> Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201
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
PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	CP2406 Programming III PREREQ: CP1404 OR CP1804 OR CP1300
EE4000 Signal Processing 3 – TSV only PREREQ: 48CP	CS2004 Surveying and Construction – TSV ONLY, offered ODD years only
ME4521 Bulk Materials Handling – TSV only, offered ODD years only PREREQ: 48CP	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
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
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SP11 (Nov-Feb)

EV3502 Advanced Geographic Information Systems – TSV ONLY PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502