

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)	MAJOR Mechanical Engineering (MEN)
NAME		MINOR Physics (PHY)

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.

Year 1	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: EG1000 Engineering 1	Degree Core: EG1010 Process Engineering
	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	Major Core: EG2010 Materials Science and Engineering
Year 2	Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	Major Core: ME2525 Machine Element Design PREREQ: CS2001
	Major Core: ME2521 Dynamics of Machine Elements PREREQ: EG1011	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Minor Core: PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	Minor Core List: see tables below for details

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Major Core: EG3001 Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: ME3511 Dynamics and Acoustics PREREQ: MA2000 AND ME2521	Major Core: ME3525 Mechanical Design PREREQ: ME2525
	Major Core: ME3515 Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	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 subject in Year 4 depending on the year.

	Study Period 1 - SP1	Study Period 2 - SP2
rear 4	Degree Core: EG4011 Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: EG4012 Thesis Part 2 of 2 PREREQ: EG4011
	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	Major Core: ME4522 Energy, Conversion and Refrigeration PREREQ: ME2512
	Minor Core List: see tables below for details	Minor Core List: see tables below for details

Further Degree Options: Select 1 Subject from List 1 AND 2 subjects from List 1 OR List 2

Minor Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	PH2240 Atomic and Nuclear Physics PREREQ: PH2002 AND MA1003
PH3008 Statistical Mechanics and Transport PREREQ: PH2019 AND PH2002 AND MA2000	

Minor Core List 2:	
Study Period 1 – SP1	Study Period 2 – SP2
PH3019 Electromagnetic Phenomena PREREQ: MA2000 AND PH2019	PH3002 Quantum Physics 2 PREREQ: MA2000 AND PH2002
MA3211 Mathematical Modelling and Differential Equations PREREQ: MA2000 AND (MA2210 OR MA2201)	PH3006 Oceanography and Meteorology PREREQ: MA2000 AND PH2019
	MA2210 Linear Algebra PREREQ: MA1003