

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

2021-2022

DEGREE Bachelor of Engineering (Honours)	MAJOR <u>Electrical and Electronic Engineering (EEL)</u>
NAME	MINOR Data Science (DSC)

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.

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: EG1000 Engineering 1	Degree Core: EG1010 Process Engineering
Year 1	Degree Core: EG1002 Computing and Sensors	Degree Core: EG1011 Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
Ϋ́	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: CC2511 Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404
Year 2	Major Core: CC2510 Digital Logic and Computing Methods PREREQ: EG1002 OR CP1401	Major Core: EE2300 Electronics 1 PREREQ: EG1012
	Major Core: EE2201 Circuit Theory PREREQ: EG1012 AND MA2000	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Minor Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MA0020 OR Maths B

	Study Period 1 - SP1	Study Period 2 - SP2
	Major Core: EE3010 Digital Signal Processing PREREQ: 48CP	Major Core: CC3501 Computing Interfacing and Control PREREQ: CC2511 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
Year 3	Major Core: EE3300 Electronics 2 PREREQ: EE2300	Major Core: EE3700 Communications Systems Principles PREREQ: EE2201
>	Major Core: EE3400 Power Engineering 1 PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)	Major Core: EE4600 Automatic Control 2 PREREQ: EE3600 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Minor Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 or MA1020 or MA1000 or Math B or Equivalent	Minor Core: MA2405 Advanced Statistical Modelling PREREQ: MA1401 OR BZ2001 OR MA2401 OR SC2202 OR SC2209 AND MA1000

	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
ar 4	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: EE4400 Power Engineering 2 PREREQ: EE3400 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
Yea	Major Core: EE4010 Analog Filters and Signals PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)	Major Core: EE4500 Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Minor Core List 1:	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

Further Degree Options:

Minor Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
MA3831 Natural Language Processing, Web Scraping and Large Data Processing PREREQ: CP1404 AND MA3405	MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209
	MA3832 Neural Network and Deep Learning PREREQ: MA3405 OR MA5405 OR CP1404