

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 Civil Engineering (CVL)
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.

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

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: CS2003 Introduction to Structural Design PREREQ: CS2001
	Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	Major Core: CS2005 Introduction to Geotechnical Engineering PREREQ: EG1011
	Major Core: CS2002 Catchment, Stream and Lake Engineering	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	Minor Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B

Year 3	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: CS3002 Soil Mechanics and Geology PREREQ: CS2005
	Major Core: CS3000 Structural Analysis PREREQ: CS2003 AND MA2000	Major Core: CS3003 Design of Steel and Concrete Structures PREREQ: CS2003 AND CS3000
	Major Core: CS3001 Concrete Engineering PREREQ: CS2001	Major Core: CS3004 Transportation Engineering — only offered EVEN years *
	Minor Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT	Minor Core: MA2405 Advanced Statistical Modelling PREREQ: MA1401 OR MA2401 OR SC2202/SC2209

^{*}Will need to swap with a subject in Minor core list 1 depending on the year.

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: <u>CS4001</u> Foundation Engineering and Rock Mechanics PREREQ: CS3002	Major Core: CS4005 Civil Engineering Design PREREQ: CS3001 AND CS3003 AND CS40001 AND CS4002
	Major Core: CS4002 Hydraulic and Coastal Engineering PREREQ: CS3008	Major Core: CS4008 Water and Wastewater Engineering PREREQ: CS2002 AND EG1010
	Major Core: <u>CS4010</u> Finite Element Analysis and Structural Dynamics PREREQ: EG1002 AND CS3000 AND MA2000	Minor Core List 1:

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	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