

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

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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)
γ,	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	Degree Core: CP1403 Design Thinking
Year 2	Degree Core: CP1404 Programming II - External PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201	Degree Core: CP2406 Programming III PREREQ: CP1404 OR CP1804 OR CP1300
	Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	Major Core: CS2003 Introduction to Structural Design PREREQ: CS2001
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	Major Core: CS2005 Introduction to Geotechnical Engineering PREREQ: EG1011

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>CP1402</u> Internet Fundamentals – External	Major Core: CS3002 Soil Mechanics and Geology PREREQ: CS2005
Year 3	Degree Core: CP2404 Database Modelling	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
\	Major Core: CS2002 Catchment, Stream and Lake Engineering	<u>List Options</u> : see tables below for details
•	List Options: see tables below for details	List Options: see tables below for details

	Study Period 1 - SP1	Study Period 2 - SP2
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	Degree Core: CP3407 Advanced Software Engineering PREREQ: CP1404 OR CP1804 AND 18CP OF SUBJECTS
Year	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 *
	<u>List Options</u> : see tables below for details	List Options: see tables below for details

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

	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 5	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
Yea	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	<u>List Options</u> : see tables below for details

Further Degree Options:

Select 1 subject from List 1 AND Select 3 subjects from List 2 AND Select 2 subjects from List 3*

<u>List 1</u> : Select 1 subject		
Study Period 1 – SP1	Study Period 2 – SP2	
CP1406 Web Design and Development	<u>CP1407</u> Introductory Machine Learning and Data Science - External	
CP2410 Algorithms and Data Structures – External PREREQ: 6CP OF CP SUBJECTS	CP2405 Collective Intelligence and Entrepreneurship PREREQ: 24CP	
CP2411 3D Modelling and Animation – External PREREQ: 6CP OF CP SUBJECTS	CP2408 Design Thinking and Creative IT Industies PREREQ: CP1403 OR CP1803 OR SC1201	
	CP2409 Network Forensics and Data Communications – External PREREQ: CP1402 OR CP2012 OR CP2231 OR CP1802	
	CP2412 Game Design and Technologies – External PREREQ: 6CP OF CP SUBJECTS	

<u>List 2</u> : Select 3 subjects		
Study Period 1 – SP1	Study Period 2 – SP2	
CP3402 Content Management Systems PREREQ: (CP1404 OR CP1804 AND CP1406 OR CP1806) OR CP2010, AND 24CP OF CP SUBJECTS	CP3404 Information Security PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS	
CP3403 Data Mining PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS	CP3405 Design Thinking and Project Management PREREQ: CP2408	
CP3406 Mobile Computing PREREQ: CP1404 OR CP1804 AND 18CP OF CP SUBJECTS		
CP3408 Game Engine and Simulation – External PREREQ: (CP1404 OR CP1804) AND 18 CP OF CP SUBJECTS		

<u>List 3</u> : Select 2 subjects*		
Study Period 1 – SP1	Study Period 2 – SP2	
CL2501 Process Analysis PREREQ: EG1010	CP1407 Introductory Machine Learning and Data Science - External	
CP2410 Algorithms and Data Structures – External PREREQ: 6CP OF CP SUBJECTS	EA1110 Introductory Machine Learning and Data Science	
EV2301 Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS	CC2511 Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404	
MA2211 - Discrete Mathematics – TSV ONLY PREREQ: MATHS B	CP2408 Design Thinking and Creative IT Industies PREREQ: CP1403 OR CP1803 OR SC1201	
PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	EG2010 Materials Science and Engineering – TSV only	
PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS	
EE4000 Signal Processing 3 – TSV only PREREQ: 48CP	MA2210 - Linear Algebra PREREQ: MA1003	
ME4521 Bulk Materials Handling – TSV only, offered ODD years only PREREQ: 48CP	ME2525 Machine Element Design – TSV ONLY PREREQ: CS2001	
	PH2240 Atomic and Nuclear Physics – TSV ONLY PREREQ: PH2002 AND MA1003	
	CC3501 Computer Interfacing and Control PREREQ: CC2511	

SP11 (Nov-Feb)

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

^{*} If undertaking MA1020 only choose 1 subject from this list.