

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

2022

DEGREE	Bachelor of Engineering (Honours) – Bachelor of Information Technology
NAME	MAJOR Civil Engineering (CVI)

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> 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)	
7		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	

^{*}Students may be required to take MA1020 in SP3 which will count as an elective line.

	Study Period 1 - SP1	Study Period 2 - SP2
r 2	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: CS2003 Introduction to Structural Design PREREQ: CS2001
Yea	Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	Major Core: CS2005 Introduction to Geotechnical Engineering PREREQ: EG1011
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	

Trimester 1 (Feb-May)

Degree Core: CP1402 Internet

Fundamentals

Trimester 3 (Sept-Dec)

Degree Core: CP1403 Design

Thinking

Degree Core: <u>CP1404</u> Programming II

PREREQ: CP1401 OR EG1002

	Study Period 1 - SP1		Study Period 2 - SP2	
Major Core: CS2002 Catchment, Stream and Lake Engineering		Major Core: CS3002 Soil Mechanics and Geology PREREQ: CS2005		
	<u>List Options</u> : see tables below for details		Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512	
Trimester 3 (Sept-Dec)				Trimester 3 (Sept-Dec)
			Degree Core: CP2404 Database Modelling	
Trimester TBA				
List Options: see tables below for details Degree Core: CP2 PREREQ: CP1404		2406 Programming III	Degree Core: <u>CP3407</u> Advanced Software Engineering PREREQ: CP1404 AND 18CP OF SUBJECTS	

Study Period 1 - SP1		SP1	Stu	dy Period 2 - SP2
ar 4	EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)		Major Core: CS3003 Design of Steel and Concrete Structures PREREQ: CS2003 AND CS3000	
Ye	OR 36CP Major Core: CS3000 Structural Analysis PREREQ: CS2003 AND MA2000		Major Core: CS3004 Transportation Engineering — only offered EVEN years * PREREQ: 48CP	
	Major Core: CS3001 Concrete Engineering PREREQ: CS2001			
Trimester TBA				
List Options: see tables below for details List Options: see to details		tables below for	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
Year 5	Major Core: CS4001 Foundation Engineering and Rock Mechanics PREREQ: CS3002	Major Core: CS4005 Civil Engineering Design PREREQ: CS3001 AND CS3003 AND CS40001 AND CS4002
Ye	Major Core: CS4002 Hydraulic and Coastal Engineering PREREQ: CS3008	Major Core: CS4008 Water and Wastewater Engineering PREREQ: 48CP INCLUDING CS2002 AND EG1010
	Major Core: CS4010 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 any 2 undergraduate subjects OR if required to take MA1020 select 1 undergraduate subject.

<u>List 1</u> : Select 1 subject			
Trimester 1 (Feb-May)	Trimester 2 (Jun-Aug)	Trimester 3 (Sept-Dec)	
CP1406 Web Design and Development	CP1407 Introductory Machine Learning and Data Science		
Trimester TBA			
CP2410 Algorithms and Data Structures PREREQ: 6CP OF CP SUBJECTS	CP2405 Collective Intelligence and Entrepreneurship PREREQ: 24CP	CP2409 Network Forensics and Data Communications PREREQ: CP1402	
CP2411 3D Modelling and Animation PREREQ: 6CP OF CP SUBJECTS	CP2408 Design Thinking and Creative IT Industries PREREQ: CP1403	CP2412 Game Design and Technologies PREREQ: 6CP OF CP SUBJECTS	

<u>List 2</u> : Select 3 subjects			
Trimester TBA			
<u>CP3402</u> Content Management Systems PREREQ: (CP1404 OR CP1804 AND CP1406 OR CP1806) OR CP2010, AND 24CP OF CP SUBJECTS	CP3404 Information Security PREREQ: 18CP OF SUBJECTS, INLCUDING CP1402	CP3406 Mobile Computing PREREQ: CP1404 OR CP1804	
CP3403 Data Mining PREREQ: (CP2403 AND CP2404) OR (18 CREDIT POINTS OF UNDERGRADUATE SUBJECTS INCLUDING 6 CREDIT POINTS OF CP SUBJECTS)	CP3405 Design Thinking and Project Management PREREQ: CP2408	CP3408 Game Engine and Simulation PREREQ: (CP1404 OR CP1804) AND 18 CP OF CP SUBJECTS	