

## RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of Engineering (Honours) – Bachelor of Information Technology

NAME \_\_\_\_\_ MAJOR Electrical and Electronic Engineering (EEL)

To assist you with subject information, we recommend you consult with your [CSE Course/Major Advisor](#) and refer to [Subject Search](#). 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
Year 1	<b>Degree Core:</b> <u>EG1000</u> Engineering 1	<b>Degree Core:</b> <u>EG1010</u> Process Engineering
	<b>Degree Core:</b> <u>EG1002</u> Computing and Sensors	<b>Degree Core:</b> <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	<b>Degree Core:</b> <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	<b>Degree Core:</b> <u>EG1012</u> Electric Circuits
	<b>Degree Core:</b> <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	<b>Degree Core:</b> <u>MA1003</u> 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
Year 2	<b>Degree Core:</b> <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	<b>Major Core:</b> <u>CC2511</u> Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404
	<b>Major Core:</b> <u>EE2201</u> Circuit Theory PREREQ: EG1012 AND MA2000	<b>Major Core:</b> <u>EE2300</u> Electronics 1 PREREQ: EG1012
	<b>Major Core:</b> <u>CC2510</u> Digital Logic and Computing Methods PREREQ: EG1002 OR CP1401	
<b>Trimester 1 (Feb-May)</b>		<b>Trimester 3 (Sept-Dec)</b>
<b>Degree Core:</b> <u>CP1402</u> Internet Fundamentals		<b>Degree Core:</b> <u>CP1403</u> Design Thinking
		<b>Degree Core:</b> <u>CP1404</u> Programming II PREREQ: CP1401 OR EG1002

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Major Core:</b> <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	<b>Major Core:</b> <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	<b>Major Core:</b> <u>EE3010</u> Digital Signal Processing PREREQ: 48CP	<b>Major Core:</b> <u>EE3700</u> Communications Systems Principles PREREQ: EE2201
		<b>Major Core:</b> <u>CC3501</u> Computing Interfacing and Control PREREQ: CC2511
		<b>Trimester 3 (Sept-Dec)</b>
		<b>Degree Core:</b> <u>CP2404</u> Database Modelling
<b>Trimester TBA</b>		
		<b>Degree Core:</b> <u>CP2406</u> Programming III PREREQ: CP1404
		<b>Degree Core:</b> <u>CP3407</u> Advanced Software Engineering PREREQ: CP1404 AND 18CP OF SUBJECTS

Year 4	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Degree Core:</b> <u>EG3000</u> 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	<b>Major Core:</b> <u>EE4600</u> Automatic Control 2 PREREQ: EE3600
	<b>Major Core:</b> <u>EE3300</u> Electronics 2 PREREQ: EE2300	<b>List Options:</b> see tables below for details
	<b>Major Core:</b> <u>EE3400</u> Power Engineering 1 PREREQ: EE2201	
<b>Trimester TBA</b>		
<b>List Options:</b> see tables below for details	<b>List Options:</b> see tables below for details	<b>List Options:</b> see tables below for details

Year 5	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Degree Core:</b> <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	<b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	<b>Major Core:</b> <u>EE4010</u> Analog Filters and Signals PREREQ: EE2201	<b>Major Core:</b> <u>EE4400</u> Power Engineering 2 PREREQ: EE3400
	<b>List Options:</b> see tables below for details	<b>Major Core:</b> <u>EE4500</u> Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001
		<b>Major Core:</b> <u>EG4013</u> 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
<b>Trimester TBA</b>		
<b>List Options:</b> 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.

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

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