

RECOMMENDED STUDY PLAN

2021-2022

DEGREE Bachelor of Engineering (Honours) MAJOR Electrical and Electronic Engineering (EEL)

NAME _____ MINOR Water Resource Management (WRM) – Townsville only

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	Degree Core: <u>EG1000</u> Engineering 1	Degree Core: <u>EG1010</u> Process Engineering
	Degree Core: <u>EG1002</u> Computing and Sensors	Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: <u>EG1012</u> Electric Circuits
	Degree Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	Degree Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: <u>CC2511</u> Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404
	Major Core: <u>CC2510</u> Digital Logic and Computing Methods PREREQ: EG1002 OR CP1300	Major Core: <u>EE2300</u> Electronics 1 PREREQ: EG1012
	Major Core: <u>EE2201</u> Circuit Theory PREREQ: EG1012 AND MA2000	Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Minor Core List 1:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	Major Core: <u>EE3010</u> Digital Signal Processing PREREQ: 48CP	Major Core: <u>CC3501</u> Computing Interfacing and Control PREREQ: CC2511
	Major Core: <u>EE3300</u> Electronics 2 PREREQ: EE2300	Major Core: <u>EE3700</u> Communications Systems Principles PREREQ: EE2201
	Major Core: <u>EE3400</u> Power Engineering 1 PREREQ: EE2201	Major Core: <u>EE4600</u> Automatic Control 2 PREREQ: EE3600
	Minor Core: <u>CS2002</u> Catchment, Stream and Lake Engineering	Minor Core: <u>CS4008</u> Water and Wastewater Engineering PREREQ: 48CP

Year 4	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	Degree Core: <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	Major Core: <u>EE4400</u> Power Engineering 2 PREREQ: EE3400
	Major Core: <u>EE4010</u> Analog Filters and Signals PREREQ: EE2201	Major Core: <u>EE4500</u> Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001
Minor Core List 1:	Major Core: <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	

Further Degree Options:

Minor Core List 1:		
Study Period 1 – SP1	Study Period 2 – SP2	
<u>CH3041</u> Environmental Chemistry PREREQ: CH1001 OR CH1011 OR EG1010	<u>EV2502</u> Introduction to Geographic Information Systems PREREQ: AT LEAST 12CP LEVEL 1 SUBJECTS	
<u>CS4002</u> Hydraulic and Coastal Engineering PREREQ: CS3008	<u>CS5108</u> Advanced Ground Water Modelling and Management PREREQ: CS2002	
<u>CS5208</u> Advanced Water Resource System Planning and Management PREREQ: CS2002 OR CS5402		
<u>EA2006</u> Hydrology PREREQ: 12CP LEVEL 1		
<u>EV3201</u> Managing Coastal and Marine Environments PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR BZ OR MB SUBJECTS		
		SP11 (Nov-Feb)
		<u>EV3502</u> Advanced Geographic Information Systems - SP11 PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502