

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**

2021-2022

DEGREE _	Bachelor of Engineering (Honours	MAJOR <u>iviechanical Engineering (iviely)</u>
NIANAE		AINIOD Motor Decourse Management (MDM) -
NAME		IINOR 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 <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)
	<b>Degree Core:</b> 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
Year 2	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: EG2010 Materials Science and Engineering
	Major Core: <u>CS2001</u> Engineering Strength of Materials PREREQ: EG1011	Major Core: ME2525 Machine Element Design PREREQ: CS2001
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: ME2521 Dynamics of Machine Elements PREREQ: EG1011	Minor Core List 1:

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Major Core: EG3001 Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: ME3511 Dynamics and Acoustics PREREQ: MA2000 AND ME2521	Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	Major Core: ME3515 Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	Major Core: ME3525 Mechanical Design PREREQ: ME2525
	Minor Core: CS2002 Catchment, Stream and Lake Engineering	Minor Core: CS4008 Water and Wastewater Engineering PREREQ: 48CP

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
	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: EG4013 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
	Major Core: ME4513 Advanced Fluid Mechanics PREREQ: CS3008	Major Core: ME4515 Advanced Mechanical Engineering Design PREREQ: ME3525
	Minor Core List 1:	Major Core: ME4522 Energy, Conversion and Refrigeration PREREQ: ME2512

## **Further Degree Options:**

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

EV3502 Advanced Geographic Information Systems - SP11
PREREQ: AT LEAST 12CP LEVEL 2
INCLUDING EV2502

SP11 (Nov-Feb)