JAMES COOK UNIVERSITY AUSTRALIA

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 Science NAME _____

BEng. MAJOR Electrical and Electronic Engineering (EEL) - BSc MAJOR Choose a Major from Table B

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:** EG1002 Computing and Sensors	**Degree Core:** EG1010 Process Engineering
	Degree Core: MA1000 Mathematical Foundations **PREREQ: MA1020 OR MATHS B OR MATHS C**	**Degree Core:** EG1011 Statics and Dynamics **PREREQ: PH1005 OR (PHYSICS AND MATHS C)**
	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**
	Degree Core: EG1000 Engineering 1	**Degree Core:** EG1012 Electric Circuits

***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	**Degree Core:** MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	**BEng Major Core:** EE2300 Electronics 1 **PREREQ: EG1012**
	BEng Major Core: EE2201 Circuit Theory **PREREQ: EG1012 AND MA2000**	**BEng Major Core:** CC2511 Embedded Systems Design **PREREQ: EG1002 OR CP1404**
	BEng Major Core: CC2510 Digital Logic and Computing Methods **PREREQ: EG1002 OR CP1401**	**BSc Major Core:**
	BSc Major Core:	**Elective:** *see below for details*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**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**	**BEng Major Core:** EE3700 Communications Systems Principles **PREREQ: EE2201**
	BEng Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	**BEng Major Core:** CC3501 Computing Interfacing and Control **PREREQ: CC2511**
	BSc Major Core:	**BEng Major Core:** EE3600 Automatic Control 1 **PREREQ: EG1012 AND MA2000**
	Elective: REQUIRED FOR BSc SC2202 Quantitative Methods in Science **PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT** **OR** SC2209 Quantitative Methods in Science-Advanced **PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS**	**BSc Major Core:**

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	**BEng Major Core:** EE3010 Digital Signal Processing **PREREQ: 48CP**	**BEng Major Core:** EE4600 Automatic Control 2 **PREREQ: EE3600**
	BEng Major Core: EE3300 Electronics 2 **PREREQ: EE2300**	**BEng 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**
	BSc Major Core:	**BSc Major Core:**
	BSc Major Core:	**BSc Major Core:**

	Study Period 1 - SP1	Study Period 2 - SP2
Year 5	**Degree Core:** EG4011 Thesis Part 1 of 2 **PREREQ: 72CP**	**Degree Core:** EG4012 Thesis Part 2 of 2 **PREREQ: EG4011**
	BEng Major Core: EE3400 Power Engineering 1 **PREREQ: EE2201**	**BEng Major Core:** EE4400 Power Engineering 2 **PREREQ: EE3400**
	BEng Major Core: EE4010 Analog Filters and Signals **PREREQ: EE2201**	**BEng Major Core:** EE4500 Electrical and Electronic Engineering Design **PREREQ: EE3600 AND EE3300 AND EE4010**
	Elective: *see below for details*	**Elective:** *see below for details*

Further Degree Options:

Select any 2 undergraduate subjects (f required to undertake MA1020 Preparatory Mathematics, select 1 subject **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a BSc Major from Table B