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 2021

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

NAME _____ MINOR Physics (PHY)

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:** 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)**
	Degree Core: 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:** CC2511 Embedded Systems Design **PREREQ: EG1002 OR CP1300 OR CP1404**
	Major Core: CC2510 Digital Logic and Computing Methods **PREREQ: EG1002 OR CP1300**	**Major Core:** EE2300 Electronics 1 **PREREQ: EG1012**
	Major Core: EE2201 Circuit Theory **PREREQ: EG1012 AND MA2000**	**Major Core:** EE3600 Automatic Control 1 **PREREQ: EG1012 AND MA2000**
	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	**Minor Core List:** *see tables below for details*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**Major Core:** EE3010 Digital Signal Processing **PREREQ: 48CP**	**Major Core:** CC3501 Computing Interfacing and Control **PREREQ: CC2511**
	Major Core: EE3300 Electronics 2 **PREREQ: EE2300**	**Major Core:** EE3700 Communications Systems Principles **PREREQ: EE2201**
	Major Core: EE3400 Power Engineering 1 **PREREQ: EE2201**	**Major Core:** EE4600 Automatic Control 2 **PREREQ: EE3600**
	Minor Core: PH2002 Classical Mechanics and Quantum Physics 1 **PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))**	**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**

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	**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:** EE4400 Power Engineering 2 **PREREQ: EE3400**
	Major Core: EE4010 Analog Filters and Signals **PREREQ: EE2201**	**Major Core:** EE4500 Electrical and Electronic Engineering Design **PREREQ: EE3600 AND EE3300 AND EE3001**
	Minor Core List: *see tables below for details*	**Minor Core List:** *see tables below for details*

Further Degree Options: **Select 1 Subject from List 1 AND 2 subjects from List 1 OR List 2**

Minor Core List 1:	
Study Period 1 – SP1	**Study Period 2 – SP2**
PH3008 Statistical Mechanics and Transport **PREREQ: PH2019 AND PH2002 AND MA2000**	PH2240 Atomic and Nuclear Physics – *TSV only* **PREREQ: PH2002 AND MA1003**

Minor Core List 2:	
Study Period 1 – SP1	**Study Period 2 – SP2**
PH3019 Electromagnetic Phenomena – *TSV only* **PREREQ: MA2000 AND PH2019**	PH3002 Quantum Physics 2 – *TSV only* **PREREQ: MA2000 AND PH2002**
MA3211 Mathematical Modelling and Differential Equations – *TSV only* **PREREQ: MA2000 AND (MA2210 OR MA2201)**	PH3006 Oceanography and Meteorology – *TSV only* **PREREQ: MA2000 AND PH2019**
	MA2210 Linear Algebra **PREREQ: MA1003**