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

Mid-Year Entry 2021

DEGREE Bachelor of Engineering (Honours) – Bachelor of Science   NAME _____

BEng. MAJOR Electronic Systems and Internet of Things Engineering (IOT) - 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 2 - SP2
Year 1	*MID-YEAR ENTRY*	**Degree Core:** EG1010 Process Engineering
		Degree Core: EG1012 Electric Circuits
		BSc Major Core:
		BSc Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** EG1000 Engineering 1	**Degree Core:** EG1011 Statics and Dynamics **PREREQ: PH1005 OR (PHYSICS AND MATHS C)**
	Degree Core: EG1002 Computing and Sensors	**Degree Core:** MA1003 Mathematical Techniques **PREREQ: MA1000 OR MA1011 OR MA1009**
	Degree Core: MA1000 Mathematical Foundations **PREREQ: MA1020 OR MATHS B OR MATHS C**	**BEng Major Core:** CC2511 Embedded Systems Design **PREREQ: EG1002 OR CP1300 OR CP1404**
	Degree Core: PH1005 Advanced Stream Physics 1 **PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008**	**BEng Major Core:** EE2300 Electronics 1 **PREREQ: EG1012**

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**Degree Core:** MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	**BEng Major Core:** CC3501 Computer Interfacing and Control **PREREQ: CC2511**
	BEng Major Core: : CP1404 Programming II - *External* **PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201**	**BEng Major Core:** EE3600 Automatic Control 1 **PREREQ: EG1012 AND MA2000**
	BEng Major Core: CC2510 Digital Logic and Computing Methods **PREREQ: EG1002 OR CP1300**	**BSc Major Core:**
	BSc Major Core:	**List Options:** *see information below*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	**BEng Major Core:** PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	**BEng Major Core:** MA3405 Statistical Data Mining for Big Data **PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209**
	BEng Major Core: EE2201 Circuit Theory **PREREQ: EG1012 AND MA2000**	**BEng Major Core:** EE3700 Communications Systems Principles **PREREQ: EE2201**
	BEng Major Core: CP3406 Mobile Computing **PREREQ: CP1404 OR CP1804**	**BEng Major Core:** CP3404 Information Security **PREREQ: 6CP of CP SUBJECTS AND 12CP OF SUBJECTS**
	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: EE3901 Sensor Technologies **PREREQ: EE2201 AND (CC2511 OR CC2003)**	**BEng Major Core:** CC4950 Design Project **PREREQ: CC3501 AND CC3901 AND EE3901**
	BEng Major Core: EE3010 Digital Signal Processing **PREREQ: 48CP**	**BSc Major Core:**
	BSc Major Core:	**List Options:** *see information below*

	Study Period 1 - SP1	
Year 6	**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**	*MID-YEAR COMPLETION*
	BEng Major Core: CC4510 Digital System Design **PREREQ: CC3501**	
	List Options: *see tables below for details*	
	List Options: *see tables below for details*	

Further Degree Options:

Select 2 subjects from List 1* **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a <u>BSc Major from Table B</u>

List 1:	
Study Period 1 – SP1	**Study Period 2 – SP2**
<u>CL2501</u> Process Analysis – *TSV ONLY* **PREREQ: EG1010**	<u>EA1110</u> Evolution of the Earth
<u>CS2001</u> Engineering Strength of Materials **PREREQ: EG1011**	<u>CP2406</u> Programming III **PREREQ: CP1404 OR CP1804 OR CP1300**
<u>EV2301</u> Urban Geography and Design **PREREQ: 12CP LEVEL 1 SUBJECTS**	<u>CS2004</u> Surveying and Construction – *TSV ONLY, offered ODD years only*
<u>PH2002</u> Classical Mechanics and Quantum Physics 1 **PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))**	<u>EG2010</u> Materials Science and Engineering – *TSV only*
<u>EE4000</u> Signal Processing 3 – *TSV only* **PREREQ: 48CP**	<u>EV2502</u> Introduction to Geographic Information Systems **PREREQ: 12CP LEVEL 1 SUBJECTS**
<u>ME4521</u> Bulk Materials Handling – *TSV only, offered ODD years only* **PREREQ: 48CP**	<u>MA2210</u> - Linear Algebra **PREREQ: MA1003**
<u>MA2211</u> - Discrete Mathematics – *TSV ONLY* **PREREQ: MATHS B**	<u>ME2525</u> Machine Element Design – *TSV ONLY* **PREREQ: CS2001**
	<u>PH2240</u> Atomic and Nuclear Physics – *TSV ONLY* **PREREQ: PH2002 AND MA1003**

	SP11 (Nov-Feb)
	<u>EV3502</u> Advanced Geographic Information Systems – *TSV ONLY* **PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502**

* If undertaking MA1020 only choose 1 subject from this list.