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   2021-2022

DEGREE **Bachelor of Engineering (Honours)**   MAJOR **Civil Engineering (CVL)**

NAME _____

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.

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)
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

Year 2

Study Period 1 - SP1	Study Period 2 - SP2
Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	**Major Core:** CS2003 Introduction to Structural Design PREREQ: CS2001
Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	**Major Core:** CS2005 Introduction to Geotechnical Engineering PREREQ: EG1011
Major Core: CS2002 Catchment, Stream and Lake Engineering	**Major Core:** CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	**List 1:**

Year 3

Study Period 1 - SP1	Study Period 2 - SP2
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:** CS3002 Soil Mechanics and Geology PREREQ: CS2005
Major Core: CS3000 Structural Analysis PREREQ: CS2003 AND MA2000	**Major Core:** CS3003 Design of Steel and Concrete Structures PREREQ: CS2003 AND CS3000
Major Core: CS3001 Concrete Engineering PREREQ: CS2001	**Major Core:** CS3004 Transportation Engineering – *only offered EVEN years* * PREREQ: 48CP
List 1:	**List 1:**

	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**
	Major Core: CS4001 Foundation Engineering and Rock Mechanics **PREREQ: CS3002**	**Major Core:** CS4005 Civil Engineering Design **PREREQ: CS3001 AND CS3003 AND CS40001 AND CS4002**
	Major Core: CS4002 Hydraulic and Coastal Engineering **PREREQ: CS3008**	**Major Core:** CS4008 Water and Wastewater Engineering **PREREQ: 48CP INCLUDING CS2002 AND EG1010**
	Major Core: CS4010 Finite Element Analysis and Structural Dynamics **PREREQ: EG1002 AND CS3000 AND MA2000**	**List 1:**

Further Degree Options:

List 1:	
Study Period 1 – SP1	**Study Period 2 – SP2**
CL2501 Process Analysis **PREREQ: EG1010**	EA1110 Evolution of the Earth
ME4521 Bulk Materials Handling – *TSV only, offered ODD years only* **PREREQ: 48CP**	EG2010 Materials Science and Engineering – *TSV only*
EV2301 Urban Geography and Design **PREREQ: 12CP LEVEL 1 SUBJECTS**	EV2502 Introduction to Geographic Information Systems **PREREQ: 12CP LEVEL 1 SUBJECTS**
MA2211 - Discrete Mathematics – *TSV ONLY* **PREREQ: MATHS B**	CC2511 – Embedded Systems Design **PREREQ: EG1002 OR CP1300 OR CP1404**
PH2002 Classical Mechanics and Quantum Physics 1 **PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))**	CP2406 Programming III **PREREQ: CP1404**
PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	CS2004 Surveying and Construction – *TSV ONLY, offered ODD years only*
EE3010 Digital Signal Processing **PREREQ: 48CP**	MA2210 - Linear Algebra **PREREQ: MA1003**
	ME2525 Machine Element Design – *TSV ONLY* **PREREQ: CS2001**
	PH2240 Atomic and Nuclear Physics – *TSV ONLY* **PREREQ: PH2002 AND MA1003**
	CC3501 Computer Interfacing and Control **PREREQ: CC2511**

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