

RECOMMENDED STUDY PLAN

2020-2021

NAME _____ STUDENT NUMBER _____

DEGREE PROGRAM **Graduate Diploma of Science** STREAM **Environmental Earth Science (GDS-EES)**

Course information – Graduate Diploma of Science

The Graduate Diploma of Science degree is structured such that students take sets of (1) foundational ‘*knowledge*’ specific to their major, (2) technical and / or analytical ‘*skills*’ subjects and (3) *elective* subjects. The specific subject sets are aligned to the respective major in the Master of Science program.

Click here to see the relevant JCU Course handbook: <https://www.jcu.edu.au/course-and-subject-handbook/courses/postgraduate-courses/graduate-diploma-of-science>

Environmental Earth Science stream structure:

1. Take 2 of the following ‘*knowledge*’ subjects
 - 1.1. [EA5016:03](#) Hydrology
 - 1.2. [EA5017:03](#) Soil Properties and Processes
 - 1.3. [EA5046:03](#) Earth and Environmental Geochemistry
 - 1.4. [EA5404:03](#) From Icehouse to Greenhouse
2. Take 3 ‘*skills*’ subjects for your major
 - 2.1. [EA5018:03](#) Field Studies in Tropical Land and Water Science
 - 2.2. Plus 2 subjects from **List 1**
3. Take 3 *elective* subjects (see recommended electives list)

Full subject descriptions and timings of all subjects can be found online using the [Subject Search](#) tool. It is generally recommended to take 8 subjects per year, with 3 - 4 in SP1 and SP2 and additional subjects in block mode periods (SP3, SP7, SP10 /11) as necessary. You need to have fulfilled the ‘Assumed Knowledge’ or Prerequisites for any subject, before you take them. These are listed in the subject’s description. For example, EV5502 assumes you have already taken EV5505 or an equivalent at JCU or at your previous university.

RECOMMENDED STUDY PLAN

Colour legend: Pink are core 'major or knowledge' subjects, Grey are skills subjects, White are electives.

Level 5: Year 1 (take 8 subjects / 24 credit points)

SP3	SP1	SP6/7	SP2	SP9/10/11
	Major Core: EA5016:03 Hydrology TSV + CNS	Major Skill Core: EA5018:03 Field Studies in Tropical Land and Water Science	Major Core: EA5017:03 Soil Properties and Processes. TSV + CNS	Advanced Skill subject
	Skill subject		Major Core: EA5046:03 Earth and Environmental Geochemistry	
	Skill subject		Major Core: EA5404:03 From Icehouse to Greenhouse	

Notes:

Boxes without specific subjects listed in them may be rearranged to meet your course needs as long as the total number of subjects and degree structure is met. For example, you may choose to move a SP1 elective in Year 1 to SP7 in Year 2.

Skill Subjects:

In addition to the **Major Core Skill Subject** (EA5018), choose 2 subjects from **List 1**. You must meet the Assumed Knowledge or Prerequisites for any subject selected.

List 1 – Additional Skill Subjects (Select 2)

SP3	SP1	SP6/7	SP2	SP9/SP10/SP11
SC5502:03 Design and Analyses in Ecological Studies TSV	SC5202:03 Quantitative Methods in Science ¹	EA5018:03 Field Studies in Tropical Land and Water Science ²	BC5203:03 Advanced Bioinformatics	AQ5004:03 Aquaculture: Stock Improvement
MB5300:03 Sampling and Experimental Design ³	BS5260:03 Modelling Ecological Dynamics	EA5330:03 Field Techniques ³	BZ5450:03 Ecological and Conservation Genetics	EV5502:03 Advanced Geographic Information Systems - TSV
	EV5020:03 Human Dimensions of Nature, Environment and Conservation	SC5232:03 Marine Sensor Technologies and Applications ⁴	CH5203:03 Analytical Chemistry (Advanced)	EV5506:03 Remote Sensing -CNS LTD (SP9)
		BZ5990:03 Toolkit for the Field Biologist	EV5110:03 Environmental and Social Impact Assessment	EA5640:03 Advanced Marine Geoscience Technologies and Applications
		EA5044:03 Geological Mapping ³	EV5505:03 Introduction to Geographic Information Systems	
			MA5405:03 Data Mining	
			SC5202:03 Quantitative Methods in Science ⁵ (mixed mode)	

¹ SC5202 is a required unit if you have not already completed a statistics subject at university.

² Not intended for students in Marine Biology, Fisheries, Aquaculture or Tropical Biology & Conservation

³ Merged with SC5502 for 2020. SC5202 is a required unit if you have not already completed a statistics subject at university

⁴ Not yet available

⁵ SC5202 is a required unit if you have not already completed a statistics subject at university.

Elective subjects:

You can take any Level 5 subject with a prefix subject code of: AQ, BS, BZ, CH, EA, EV, MA, MB, MI, SC or TV. Other subjects can also be approved by your advisor.

Use [Subject Search](#) to review the units and check the study period

Recommended elective subjects for the ENVIRONMENTAL EARTH SCIENCE stream - These are our recommended elective subject sets for specific career pathways and/or study interests

TOPIC	STUDY PERIOD
<i>Aquaculture electives:</i>	
AQ5004:03 Aquaculture: Stock Improvement	10
<i>Hydrology</i>	
EA5090:03 Applied Hydrology (CNS only)	1
CH5041:03 Environmental Chemistry	1
EV5406:03 Coral Reef Geomorphology	1
EV5401:03 Coastal and Catchment Geomorphology	2
EV5454:03 Natural Hazards	2
EA5340:03 Disturbed Site Repair	2
<i>Geology</i>	
EA5320:03 Earth Resources, Exploration and Environment	1
EA5340:03 Disturbed Site Repair	2
EA5650:03 Sedimentary Environments and Energy Resources	2
EA5640:03 Advanced Marine Geoscience Technologies and Applications	11
EA5046:03 Earth and Environmental Geochemistry	2
<i>Marine Science electives</i>	
SC5502 Design & Analysis in Ecological Studies <i>Note-Prerequisite for this subject is a basic univariate statistics course from university.</i>	3
EV5406:03 Coral Reef Geomorphology	1
EA5640:03 Advanced Marine Geoscience Technologies and Applications	11
<i>Surface Processes</i>	
EV5015:03 Sustainability in Practice	1
EV5406:03 Coral Reef Geomorphology	1
EV5401:03 Coastal and Catchment Geomorphology	2
EV5454:03 Natural Hazards	2
EA5340:03 Disturbed Site Repair	2