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 Graduate Diploma of Science STREAM Environmental Earth Science (ESS)

NAME _____ STUDENT NUMBER _____

Course information – Graduate Diploma of Science (GradDipSc)

This degree is structured such that students take sets of foundational '*knowledge*' specific subjects to their major, technical and / or analytical '*skills*' subjects, and *elective* subjects. Additionally all students take the core subject SC5200 Professional Employability.

Use this document to plan out what subjects you will take and when. Consult with your course advisor about the nature of subjects, research and internship pathways and any queries you may have. The course advisor for each stream in the program is listed here. When you are ready to enrol in subjects proceed to your eStudent account.

For more information relevant to the degree see the JCU Course handbook for the Graduate Diploma of Science.

Students wishing to take a semester long internship or research project need to transfer to the MSc Professional degree. This should be done before you start your JCU course. The following study plan is mirrored to the MSc Professional structure as a pathway towards completing that degree.

Environmental Earth Science Stream (2) structure

1. Take the 2 of the following **Knowledge** subjects:
   1.1. EA5016 Hydrology (SP1)
   1.2. EA5017 Soil Properties and Processes (SP2)
   1.3. EA5046 Earth and Environmental Geochemistry (SP2)
   1.4. EA5404 From Icehouse to Greenhouse (SP2)

2. Take these **Skills** subjects:
   2.1. SC5200 Professional Employability (SP1 OR SP2)
   AND
   2.2. EA5018 Field Studies in Tropical Land and Water Science (SP6)

   AND take 1 additional skill subject from **List 1**.
   - *For your stream we recommend EA5330 Field Techniques OR EA5044 Geological Mapping OR EV5505 Introduction to GIS. Note that the co-requisite to EA5044 is EA5045. Together these subjects are designed to provide additional field experience for students.*

3. Take 3 **Elective** subjects
   See recommendations for your stream below.

Descriptions and availabilities of all subjects can be found online using the *Subject Search* tool. Use this to explore your subject options. Each subject is usually only offered once per year, in the 'study period' stated on Subject Search. It is generally recommended to take 8 subjects per year, with 3 or 4 in each main semester (Study Period 1 and 2), and additional subjects in the block mode (intensive) periods (SP3, SP7, SP10 /11) as necessary. An explanation to JCU's academic calendar can be found here.

Multiple subjects can be taken consecutively in a block mode period as long as the face-to-face teaching dates do not overlap. These dates are displayed on the Subject Search tool. For example in SP11 (November) a student can take both EV5502 and EA5640.

Please note that availability of some subjects sometimes changes. While such changes are rare, students should check when a subject is being taught using the Subject Search tool above.

For any subject you need to have fulfilled the 'Assumed Knowledge' and / or Pre-requisites 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. Speak with your course advisor for more assistance on this.

Where a subject includes overnight field trips this is noted in the subject's description on *Subject Search*. Additional fees apply to cover trip transport, accommodation and food expenses for these field trips.

YOUR STUDY PLANNER

Fill in the cells below with your planned subjects. You can re-arrange when you take your skill and elective subjects depending on when your preferred unit is taught. Aim to complete all your core & skill subjects in your first year of study. You will normally start your program in either Study Period 1 (SP1) or Study Period 2 (SP2). Pink are core subjects.

February start

Year 1 Take 8 subjects (24 credit points) with approx. 4 subjects per 6 month Teaching Period

<table>
<tr><th colspan="3">**Teaching Period 1** (January – June)</th><th colspan="2">**Teaching Period 2** (July – December)</th></tr>
<tr><th>**SP 3** (Feb-Jun)</th><th>**Study Period 1** (Feb-Jun)</th><th>**SP 6** (May-Jul)
SP 7 (Jun-Jul)</th><th>**Study Period 2** (Jul-Nov)</th><th>**SP 9** (Sept-Nov)
SP 10 (Nov-Jan)
SP 11 (Nov-Feb)</th></tr>
<tr><td rowspan="3"></td><td>**Degree Core:** EA5200 Professional Employability – available SP1 & SP2</td><td>**Stream Core:** EA5018 Field Studies in Tropical Land and Water Science</td><td>**Stream Option:**
EA5017 Soil Properties and Processes - RECOMMENDED
see structure above for all options</td><td>**List 1 (Skills)**
or
Elective</td></tr>
<tr><td>**Stream Option:**
EA5016 Hydrology – RECOMMENDED
see structure above for all options</td><td rowspan="2"></td><td>**Elective:**
EA5046 Earth and Environmental Geochemistry - RECOMMENDED</td><td rowspan="2"></td></tr>
<tr><td>**List 1 (Skills)**
or
Elective</td><td>**Elective:**
EA5404 From Icehouse to Greenhouse - RECOMMENDED</td></tr>
</table>

***Notes**:* Blue are core knowledge subjects, Pink are skills subjects, White are electives. Timings of electives and skills subjects are suggestions.

July start

Year 1: *Take 4 subjects (or 12 credit points) in teaching period 2.*

Teaching Period 2 (July – December)	
Study Period 2 (Jul-Nov)	**SP 9** (Sept-Nov) **SP 10** (Nov-Jan) **SP 11** (Nov-Feb)
Stream Option: EA5017 Soil Properties and Processes - RECOMMENDED *see structure above for all options*	**List 1 (Skills)** or **Elective**
Elective: *EA5046 Earth and Environmental Geochemistry - RECOMMENDED*	
Elective: *EA5404 From Icehouse to Greenhouse - RECOMMENDED*	

Year 2: *Take 12 credit points in teaching period 1.*

Teaching Period 1 (January – June)		
SP 3 (Feb-Jun)	**Study Period 1** (Feb-Jun)	**SP 6** (May-Jul) **SP 7** (Jun-Jul)
	Degree Core: SC5200 Professional Employability – available SP1 & SP2	**Stream Core:** EA5018 Field Studies in Tropical Land and Water Science
	Stream Option: EA5016 Hydrology – RECOMMENDED *see structure above for all options*	
	List 1 (Skills) or **Elective**	

List 1. Skill Subjects - Choose 1 subject

Ensure you check if the subject is available at your required campus Townsville (TSV) and / or Cairns (CNS). Most of these subjects have pre-requisite or co-requisite subjects. Make sure you check and have fulfilled that requirement.

Study Period 3 (Feb-Jun)	**Study Period 1** (Feb-Jun)	**Study Period 6** (May-Jul) **Study Period 7** (Jun-Jul)	**Study Period 2** (Jul-Nov)	**Study Period 9** (Sept-Nov) **Study Period 10** (Nov-Jan) **Study Period 11** (Nov-Feb)
EV5020 Human Dimensions of Nature, Environment and Conservation	BS5260 Modelling Ecological Dynamics	**SP6** EA5018 Field Studies in Tropical Land and Water Science	BC5203 Advanced Bioinformatics	**SP9** EV5506 Remote Sensing
	SC5202 Quantitative Methods in Science	**SP6** EA5044 Geological Mapping	BZ5225 Technological Applications in Ecology	**SP11** EA5640 Advanced Marine Geoscience Technologies and Applications
		SP7 BZ5990 Toolkit for the Field Biologist	BZ5450 Ecological and Conservation Genetics	**SP11** EV5502 Advanced Geographic Information Systems
		SP7 EA5045 Field Techniques in Geology	CH5203 Analytical Chemistry (Advanced)	
		SP7 EA5330 Field Techniques	EV5110 Environmental and Social Impact Assessment	
			EV5505 Introduction to Geographic Information Systems	
			MA5405 Data Mining	
			SC5502 Design and Analyses in Ecological Studies	

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 they are offered in.

Subject	Study Period	Campus
EV5020:03 Human Dimensions of Nature, Environment & Conservation	3	Cairns & Townsville
CH5041:03 Environmental Chemistry	1	Cairns & Townsville
EA5090:03 Applied Hydrology	1	Cairns
EA5320:03 Earth Resources, Exploration and Environment	1	Townsville
EV5015:03 Sustainability in Practice	1	Cairns & Townsville
EV5406:03 Coral Reef Geomorphology	1	Townsville
EV5701:03 Coastal and Marine Management and Conservation	1	Cairns & Townsville
EA5048:03 Minerals and Magmas	1	Townsville
EA5211:03 Structural Geology and Tectonics	1	Cairns & Townsville
EV5200:03 Natural Resource Management	2	Townsville
EA5046:03 Earth and Environmental Geochemistry	2	Cairns & Townsville
EA5650:03 Sedimentary Environments and Energy Resources	2	Townsville
EA5120:03 The Fossil Record: Dinosaurs and Vertebrates Through Time	2	Townsville
EA5650:03 Sedimentary Environments and Energy Resources	2	Townsville
EV5401:03 Coastal and Catchment Geomorphology	2	Cairns & Townsville
EV5454:03 Natural Hazards	2	Cairns & Townsville
EA5640:03 Advanced Marine Geoscience Technologies and Applications	11	Townsville
EV5404:03 Field Studies in Tropical Geography *Only taught in even-numbered years.*	11	Townsville