

RECOMMENDED STUDY PLAN

2022

DEGREE Graduate Diploma of Science

STREAM Geology (GEL)

NAME _____

STUDENT NUMBER _____

Course information – Graduate Diploma of Science

This 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.

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.

Geology stream structure

1. Take 2 of the following **Knowledge** subjects:
 - 1.1. [EA5048](#) Minerals and Magmas (SP1)
 - 1.2. [EA5211](#) Structural Geology and Tectonics (SP1)
 - 1.3. [EA5320](#) Earth Resources, Exploration and Environment (SP1)
 - 1.4. [EA5650](#) Sedimentary Environments and Energy Resources (SP2)
 - 1.5. [EA5046](#) Earth and Environmental Geochemistry (SP2)

2. Take these **Skills** subjects:
 - 2.1. [SC5200](#) Professional Employability (SP1 OR SP2)
AND
 - 2.2. [EA5044](#) Geological Mapping (SP6)
Note that EA5045 is a co-requisite with EA5044 and together these subjects are designed to provide additional field experience to students

AND take 1 additional skill subject from **List 1**.

 - For your stream we recommend [EA5045 Field Techniques in Geology](#) (Co-requisite to EA5044)

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

Full subject descriptions and timings of all subjects can be found online using the [Subject Search](#) tool. Use this tool 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 a student can take both EV5502 and EA5640 in SP11.

Please note that timings of some subjects occasionally change among years, due to JCU's operational requirements. 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 contingent 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 SP1 or SP2, but can on request start in SP3 or SP7.

Teaching Period 1 (January – June)			Teaching Period 2 (July – December)	
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)
	Degree Core: <u>SC5200</u> Professional Employability – available SP1 & SP2	<u>EA5044</u> Geological Mapping	Stream Option:	
	Stream Option:		Elective:	
	List 1 (Skills) <u>EA5045</u> Field techniques in Geology – RECOMMENDED		Elective:	
	Elective:			

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:	
Elective:	
Elective:	

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)
Stream Option:	Degree Core: <u>SC5200</u> Professional Employability – available SP1 & SP2	Stream Core: <u>EA5044</u> Geological Mapping
	List 1 (Skills): <u>EA5045</u> Field techniques in Geology – RECOMMENDED	
	Elective:	

List 1. Skill Subjects

Subjects are available at both Townsville (TSV) and / or Cairns (CNS) campus as noted. Most of these subjects have pre-requisite or co-requisite subjects. Make sure you check and have fulfilled that requirement.

SP3 Jan – Feb	SP1 Feb - June	SP6 / SP7 June - July	SP2 July - Nov	SP9 Sept to Dec SP10 / 11 Nov - Dec
EV5020:03 Human Dimensions of Nature, Environment and Conservation – CNS & TSV	SC5202:03 Quantitative Methods in Science – CNS & TSV	EA5330:03 Field Techniques – TSV <i>(For geology and earth sciences)</i>	BC5203:03 Advanced Bioinformatics - TSV	AQ5004:03 Aquaculture: Stock Improvement - TSV
	BS5260:03 Modelling Ecological Dynamics – CNS & TSV	EA5044:03 Geological Mapping – TSV <i>(co-req EA5045)</i>	BZ5450:03 Ecological and Conservation Genetics - TSV	EV5502:03 Advanced Geographic Information Systems – TSV
		BZ5990:03 Toolkit for the Field Biologist - CNS & TSV <i>(for terrestrial students)</i>	CH5203:03 Analytical Chemistry (Advanced) – TSV	EV5506:03 Remote Sensing - CNS <i>(September start)</i>
		EA5018:03 Field Studies in Tropical Land and Water Science - CNS	EV5110:03 Environmental and Social Impact Assessment - CNS & TSV	EA5640:03 Advanced Marine Geoscience Technologies and Applications - TSV
			EV5505:03 Introduction to Geographic Information Systems - CNS & TSV	
			MA5405:03 Data Mining - TSV	

List 2. 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.

Recommended elective subjects for GEOLOGY - These are our recommended and most popular units in your major.

Subject	Study Period	Campus
CH5041:03 Environmental Chemistry	1	Cairns & Townsville
EA5016:03 Hydrology	1	Cairns & Townsville
EA5017:03 Soil Properties and Processes	2	Cairns & Townsville
EA5043:03 Ore Genesis	1	Townsville
EA5044:03 Field Techniques (co-req EA5045)	6	Townsville
EA5045:03 Field Techniques in Geology (co-req EA5044)	7	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
EA5048:03 Minerals and Magmas	1	Townsville
EA5211:03 Structural Geology and Tectonics	1	Cairns & Townsville
EA5404:03 From Icehouse to Greenhouse	2	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 <i>Only taught in even-numbered years.</i>	11	Townsville