

## RECOMMENDED STUDY PLAN

2021-2022

NAME \_\_\_\_\_ STUDENT NUMBER \_\_\_\_\_

DEGREE Master of ScienceMAJOR Geology (MSC-GEL)

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Course information – Master of Science

The Master 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.

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 major in the Master of Science programs is listed [here](#). When you are ready to enrol in subjects proceed to your eStudent account.

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

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*Geology major structure*

1. Take the following 4 prescribed **Knowledge** subjects:
  - 1.1. [EA5048](#) Minerals and Magmas (SP1)
  - 1.2. [EA5320](#) Earth Resources, Exploration and Environment (SP1)
  - 1.3. [EA5650](#) Sedimentary Environments and Energy Resources (SP2)
  - 1.4. [EA5211](#) Structural Geology and Tectonics (SP1)
2. Take 4 **Skills** subjects:
  - 2.1. [EA5044](#) Geological Mapping (SP6) (**obligatory**); **Plus**:
  - 2.2. **One** of the following **advanced skill** subjects from [List 1](#) below:
    - 2.2.1. [EV5110](#) Environmental and Social Impact Assessment (SP2)
    - 2.2.2. [EV5502](#) Advanced Geographic Information Systems (SP11)
    - 2.2.3. [EV5506](#) Remote Sensing (SP9 / SP11)
    - 2.2.4. [BS5260](#) Modelling Ecological Dynamics (SP2)
    - 2.2.5. [BZ5450](#) Ecological and Conservation Genetics (SP2)
    - 2.2.6. [SC5502](#) Design and Analyses in Ecological Studies (SP3)
  - 2.3. **Two** subjects from the additional skill subjects in [List 2](#) below.
    - 2.3.1. Of these [SC5200](#) Professional Employability (SP1 and SP2) is recommended for all students in their first semester of study & is mandatory if you will be taking SC5009 (Postgraduate Internship) in the MSc Professional.
3. Take 4 **Elective** subjects from [List 3](#) 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.

#### List 1. Advanced Skill Subjects (Select 1)

SP3 Jan – Feb	SP1 Feb - June	SP7 June - July	SP2 July - Nov	SP9 Sept to Dec SP10 / 11 Nov - Dec
		<a href="#">BS5260</a> :03 Modelling Ecological Dynamics	<a href="#">BZ5450</a> :03 Ecological and Conservation Genetics	<a href="#">EV5502</a> :03 Advanced Geographic Information Systems - TSV
			<a href="#">EV5110</a> :03 Environmental and Social Impact Assessment	<a href="#">EV5506</a> :03 Remote Sensing -CNS LTD (SP9: Sept to Nov)

**List 2. Additional Skill Subjects (Select 2)**

<b>SP3</b> Jan – Feb	<b>SP1</b> Feb - June	<b>SP6 / SP7</b> June - July	<b>SP2</b> July - Nov	<b>SP9</b> Sept to Dec <b>SP10 / 11</b> Nov - Dec
<a href="#">MB5300</a> :03 Sampling and Experimental Design <sup>1</sup>	<a href="#">SC5200</a> :03 Professional Employability	<a href="#">EA5330</a> :03 Field Techniques	<a href="#">SC5200</a> :03 Professional Employability	<a href="#">AQ5004</a> :03 Aquaculture: Stock Improvement
<a href="#">SC5502</a> :03 Design and Analyses in Ecological Studies	<a href="#">SC5202</a> :03 Quantitative Methods in Science	<a href="#">EA5044</a> :03 Geological Mapping	<a href="#">BZ5450</a> :03 Ecological and Conservation Genetics	<a href="#">EV5502</a> :03 Advanced Geographic Information Systems - TSV
	<a href="#">EV5020</a> :03 Human Dimensions of Nature, Environment and Conservation	<a href="#">BZ5990</a> :03 Toolkit for the Field Biologist ( <i>Terrestrial studies</i> )	<a href="#">CH5203</a> :03 Analytical Chemistry (Advanced)	<a href="#">EV5506</a> :03 Remote Sensing - CNS (SP9 start)
			<a href="#">EV5110</a> :03 Environmental and Social Impact Assessment	<a href="#">EA5640</a> :03 Advanced Marine Geoscience Technologies and Applications
			<a href="#">EV5505</a> :03 Introduction to Geographic Information Systems	
			<a href="#">MA5405</a> :03 Data Mining	
			<a href="#">BC5203</a> :03 Advanced Bioinformatics	
			<a href="#">BS5260</a> :03 Modelling Ecological Dynamics	

<sup>1</sup> MB5300 and SC5502 are merged subjects in 2021. Students should have prior understanding of statistics, equivalent to SC5202.

**List 3. 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 the GEOLOGY Major** - These are our recommended and most popular units in your major.

Subject	Study Period
SC5502 Design & Analysis in Ecological Studies	3
CH5041:03 Environmental Chemistry	1
EA5090:03 Applied Hydrology (CNS only)	1
EA5320:03 Earth Resources, Exploration and Environment	1
EV5015:03 Sustainability in Practice	1
EV5406:03 Coral Reef Geomorphology	1
EA5046:03 Earth and Environmental Geochemistry	2
EA5340:03 Disturbed Site Repair	2
EA5650:03 Sedimentary Environments and Energy Resources	2
EV5401:03 Coastal and Catchment Geomorphology	2
EV5454:03 Natural Hazards	2
EA5640:03 Advanced Marine Geoscience Technologies and Applications	11
SC5901:03 Special Topic *	any
<i>Do a mini project with a research supervisor (130 hours)</i>	
SC5008:03 Professional Placement*	any
<i>Do a 130 hour work placement</i>	

*\*enrolment is contingent upon project supervisor's approval*

## 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.

<b>Year 1</b> Take 8 subjects (24 credit points) with 4 subjects per 6 month Teaching Period				
<b>TEACHING PERIOD 1</b> (TP1 Jan – June)			<b>TEACHING PERIOD 2</b> (TP2 July – December)	
<b>SP3</b> Jan – Feb	<b>SP1</b> Feb - June	<b>SP6 / SP7</b> June - July	<b>SP2</b> July - Nov	<b>SP9</b> Sept to Dec <b>SP10 / 11</b> Nov - Dec
	<b>Major Core:</b> <a href="#">EA5048</a> Minerals and Magmas	<b>Major Skill Core:</b> <a href="#">EA5044</a> Geological Mapping	<b>Major core:</b> <a href="#">EA5650</a> Sedimentary Environments and Energy Resources	<b>Skill Subject</b>
	<b>Major Core:</b> <a href="#">EA5320</a> Earth Resources, Exploration and Environment		<b>Advanced Skill Subject</b>	
	<b>Major Core:</b> <a href="#">EA5211</a> Structural Geology and Tectonics		<b>Skill Subject</b>	
	<b>Skill subject</b> <a href="#">SC5200</a> Professional Employability <i>recommended</i> .			

**Notes:** Pink are core knowledge subjects, Grey are skills subjects, White are electives. Elective timings are suggestions only.

Year 2 Take 12 credit points (4 subjects) in your 3 <sup>rd</sup> semester				
TEACHING PERIOD 1 (TP1 Jan – June)			TEACHING PERIOD 2 (TP2 July – December)	
SP3 Jan – Feb	SP1 Feb - June	SP6 / SP7 June - July	SP2 July - Nov	SP9 Sept to Dec SP10 / 11 Nov - Dec
	Core units or Skills or Elective			
	Elective			
	Elective			
	Elective			

**Notes:** Timing of Electives are suggestion only