

RECOMMENDED STUDY PLAN

2018-2019

NAME _____ STUDENT NUMBER _____

DEGREE PROGRAM Master of Science-Professional MAJOR Env Earth Science (MSC-EES)

Level 5: Year 1

SP3	SP1	SP6/7	SP2	SP10/SP11
	Major Core: EA5016 Hydrology	Major Skill Core: EA5018 Field Studies in Tropical Land and Water Science (SP6)	Major Core: EA5404 From Icehouse to Greenhouse	
	Major Opt Skill Core-List A		Major Core: EA5046 Earth & Environmental Geochemistry	
	Major Opt Skill Core-List B <i>SC5202-Required if you have not already completed a statistics subject at university</i>		Major Core: EA5017 Soil Properties and Processes	
	Elective:		Major Opt Skill Core-List B <i>Suggested EV5505 Intro to GIS</i>	

Note-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.

Level 5: Year 2

SP3	SP1	SP6/7	SP2	SP10/SP11
	Elective:		Degree Core: Professional Practice-Choose an Option/Stream from List C	
	Elective:		<i>Note-Professional Practice options are flexible. See List C for full details.</i>	
	Elective:			

Additional Notes:

The Master of Science (Professional) degree has the following structure:

1. 4 subjects/12cp of theory for your MAJOR CORE
2. 4 subjects/12cp of SKILL subjects for your major
 - a. 1 compulsory skill subject for your major
 - b. 1 skill subject from List A
 - c. 2 skill subjects from List B
3. 4 subjects/12cp of ELECTIVES (see recommended list below)
4. 12 credit points of Professional Practice (Select an Option Stream below)
 - a. Option 1-Research Stream **OR**
 - b. Option 2-Professional Project Stream **OR**
 - c. Option 3-Research & Professional Project Stream

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 online which can be found by searching for a subject within **Subject Search** (<https://secure.jcu.edu.au/app/studyfinder/>). For example, EV5502-Advanced GIS assumes you have already taken EV5505--Introduction to GIS or an equivalent at JCU or at your previous university.

Full subject descriptions and timings of all subjects can be found online using the Subject Search tool.

Skill Subjects:

In addition to the **Major Core Skill Subject** (MB5300 OR SC5502), choose 1 subject from **List A** and 2 subjects from **List B**. You must meet the Assumed Knowledge or Prerequisites for any subject selected. See Additional Notes for more details.

Optional Skill Subjects-List A (Select 1 subject)			
SP1	SP7	SP2	SP9/SP10/SP11
BS5260 Modelling Ecological Dynamics-Next availability 2019	MB5300 Sampling and Experimental Design#	BZ5450 Ecological and Conservation Genetics	EV5502 Advanced GIS-TSV*
		EV5110 Environmental and Social Impact Assessment	*Note-There is an error in the course paperwork. EV5502 is the option and NOT EV5505:03 Introduction to GIS as your online study plan may indicate.
		SC5502 Design and Analyses in Ecological Studies -NEW 2019	EV5506 Remote Sensing-CNS LTD (SP9)

#Note-Prerequisite for this subject is a basic univariate statistics course from university.

Optional Skill Subjects-List B (Select 2 subjects)			
SP1	SP6/7	SP2	SP9/SP10/SP11
SC5202 Quantitative Methods in Science	BZ5990 Toolkit for the Field Biologist	BC5203 Advanced Bioinformatics	AQ5004 Aquaculture Stock Improvement-TSV (SP10)
BS5260 Modelling Ecological Dynamics	EA5018 Field Studies in Tropical Land & Water Science-CNS LTD	BZ5450 Ecological & Conservation Genetics	EV5502 Advanced GIS-TSV (SP11)
AQ5010 Production and Evaluation Report Note- Currently not available.	EA5330 Field Techniques-TSV <i>Note-This subject will be substituted with EA5044-Geological Mapping-TSV in 2019</i>	CH5203 Analytical Chemistry-Advanced	EV5506 Remote Sensing-CNS LTD (SP9)
	SC5232 Marine Sensor Technologies and Applications-TSV NEW 2019	EV5110 Environmental and Social Impact Assessment	
		EV5505 Introduction to Geographic Information Systems	
		MA5405 Data Mining	
		SC5502 Design and Analysis in Ecological Studies-NEW 2019	

Professional Practice Options-List C (Select 1 Option-Stream)				
Option 1-Research Stream (entrance conditions apply)				
SC5912:06 AND SC5913:06				
<i>Note-You may choose which semesters you would like for each subject.</i>				
SP3	SP1	SP6/7	SP2	SP10/SP11
	SC5912:06 Minor Project, Seminar and Literature Review (Part 1)		SC5912:06 Minor Project, Seminar and Literature Review (Part 1)	
	SC5913:06 Minor Project, Seminar and Literature Review (Part 2)		SC5913:06 Minor Project, Seminar and Literature Review (Part 2)	

Option 2-Professional Project Stream				
SC5009:12				
<i>Note-You may choose which semester you would like for this subject.</i>				
SP3	SP1	SP6/7	SP2	SP10/SP11
	SC5009:12 Professional Placement <i>Note-available in SP1 after 2018</i>		SC5009:12 Professional Placement	
Option 3-Research & Professional Project Stream				
Select 12 credit points from:				
SP3	SP1	SP6/7	SP2	SP10/SP11
	SC5007:06 Professional Project- <i>NEW 2019</i>		SC5007:06 Professional Project- <i>NEW 2019</i>	
	SC5900:06 Special Topic- <i>NEW 2019</i>		SC5900:06 Special Topic- <i>NEW 2019</i>	
SC5901:03 Special Topic 1 <i>Note- This subject is available in any study period.</i>				
SC5902:03 Special Topic 2 <i>Note- This subject is available in any study period.</i>				
SC5008:03 Professional Placement <i>Note- This subject is available in any study period.</i>				

Elective subjects:

Your degree structure allows you to take 4 subjects/12 cp from any Level 5 subject with a prefix subject code of: AQ, BS, BZ, CH, EA, EV, MA, MB, MI, SC or TV.

Recommended elective subjects for this Major: The recommended elective subject sets for specific career pathways and/or or study areas:

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 <i>Note- Not offered in 2019.</i>	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>	
MB5300:03 Sampling and Experimental Design	7
<i>Note-Prerequisite for this subject is a basic univariate statistics course from university.</i>	
<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