RECOMMENDED STUDY PLAN 2018

NAME _____ **STUDENT NUMBER** _____

DEGREE PROGRAM Master of Science-Professional **MAJOR** Trop Bio & Con-CNS (MSC-TBI)

Level 5: Year 1

SP3	SP1	SP6/7	SP2	SP10/SP11
Major Core: BZ5745 Tropical Entomology	**Major Core:** BZ5215 Conservation Biology	**Major Skill Core:** MB5300 Sampling and Experimental Design# ***OR*** SC5502:03 Design and Analyses in Ecological Studies-NEW 2019^	**Major Core:** BZ5230 Ecological Research Methods	**Major Opt Skill Core-List A**
	Major Core: BZ5235 Biological Invasions-*NEW 2019*		**Major Opt Skill Core-List B**	
	Major Opt Skill Core-List B *SC5202-Required if you have not already completed a statistics subject at university*			

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 an elective in Year 2 into Year 1. You may also choose to delay a skill subject or BZ5745 until Year 2.

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

Note^-SC5502 is NEW for 2019 and the SP has yet to be confirmed.

Level 5: Year 2

SP3	SP1	SP6/7	SP2	SP10/SP11
	Elective:	**Elective:**	**Degree Core:** Professional Practice-Choose an Option/Stream from List C	
	Elective:			
	Elective:			

Note-Professional Practice options are flexible. See List C for full details.

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	**SP2**	**SP10/SP11**
BS5260 Modelling Ecological Dynamics-*Next availability 2019*	EV5110 Environmental and Social Impact Assessment	EV5502 Advanced GIS-TSV* **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

Note^-SC5502 is NEW for 2019 and the SP has yet to be confirmed.

Note-List A also includes the full semester mode TSV subject BZ3450-SP2 if you are interested.

Optional Skill Subjects-List B (Select 2 subjects)			
SP1	**SP6/7**	**SP2**	**SP10/SP11**
SC5202 Quantitative Methods in Science	BZ5990 Toolkit for the Field Biologist	EV5110 Environmental and Social Impact Assessment	AQ5004 Aquaculture Stock Improvement-TSV
BS5260 Modelling Ecological Dynamics-*Next availability 2019*	EA5018 Field Studies in Tropical Land & Water Science-CNS LTD	EV5505 Introduction to Geographic Information Systems	EV5502 Advanced GIS-TSV
	EA5330 Field Techniques-TSV *Note-This subject be substituted with EA5044-Geological Mapping-TSV in 2019*	SC5502 Design and Analysis in Ecological Studies-NEW 2019^	EV5506 Remote Sensing-CNS LTD
			SC5232 Marine Sensor Technologies and Applications-TSV *NEW 2019*

Note^-SC5502 is NEW for 2019 and the SP has yet to be confirmed.

Note-List B also includes the following full semester mode TSV subjects if you are interested CH5203-SP2, *BC5203-SP2, BZ3450-SP2, MA5405-SP2.*

Professional Practice Options-List C (Select 1 Option-Stream)				
Option 1-Research Stream (*entrance conditions apply)* SC5912:06 **AND** SC5913:06 *Note-You may choose which semesters you would like for each subject.*				
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 *Note-You may choose which semester you would like for this subject.* **SP3**		**SP1**	**SP6/7**	**SP2**	**SP10/SP11**
	SC5009:12 Professional Placement *Note-available in SP1 after 2018*		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-*NEW 2019*		SC5007:06 Professional Project-*NEW 2019*	
	SC5900:06 Special Topic-*NEW 2019*		SC5900:06 Special Topic-*NEW 2019*	
SC5901:03 Special Topic 1-*Note this subject is available in any study period.*				
SC5902:03 Special Topic 2-*Note this subject is available in any study period.*				
SC5008:03 Professional Placement-*Note this subject is available in any study period.*				

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**
Plants	
BZ5615:03 Plant Survival in a land of Fire, Flood and Drought	1, CNS
BZ5620:03 Tropical Flora of Australia	7, CNS
BZ5650:03 Australian Land Plants: Recognition, Evolution and Diversity	1,11,2,7 EXT
Taxa specialisations	

BZ5725:03 Herpetology	10, TVL
BZ5745:03 Tropical Entomology	3 CNS
EV5203:03 Conserving Marine Wildlife: Sea Mammals, Birds and Reptiles	1 TVL
MB5380:03 Invertebrate Biology	2 TVL
Ecology	
BZ5880:03 Ecology: Distribution, Abundance and Diversity	2 CNS
BZ5225:03 Field Ecology	2 CNS
BZ5230:03 Ecological Research Methods	2 CNS
BZ5450:03 Ecological and Conservation Genetics	2 TVL
BZ5480:03 Restoration Ecology	1 CNS
MB5160:03 Evolution and Ecology of Reef Fishes	1 TVL
AQ5007:03 Aquatic Animal Ecophysiology	2 TVL
MB5270:03 Coastal, Estuarine & Mangrove Ecosystems	2 TVL
MB5450:03 Behaviour of Marine Animals	7 TVL
Biology	
BZ5808:03 Adapting to Environmental Challenges	2 CNS
MB5160:03 Evolution and Ecology of Reef Fishes	1 TVL
MB5400:03 Life History & Evolution of Reef Corals	1 TVL
MI5003:03 Advanced Marine Microbiology	1 TVL
MB5380:03 Invertebrate Biology	2 TVL
AQ5007:03 Aquatic Animal Ecophysiology	2 TVL
Foundations	
BZ5220:03 Population and Community Ecology	2 TVL
BS5470:03 Evolution	1 TVL
BZ5820:03 Evolutionary Biology	1 CNS

MB5380:03 Invertebrate Biology	2 TVL
BS5460:03 Fundamentals of Ecology	2 TVL
Applied Studies	
MB5310:03 Marine Reserves as Fisheries Management Tools	3 TVL
AQ5006:03 Principles and Practices of Aquaculture	1 TVL
MB5003:03 Fisheries Science	1 TVL
AQ5015:03 Sustainable Aquaculture	7 TVL
MB5610:03 Fishing Gear and Technologies	2 TVL
EV5014:03 Managing Tropical Fisheries	10 TVL
Applications for Conservation	
BZ3215:03 Conservation Biology	1 TVL, CNS
EV5020:03 Human Dimensions of Nature, Environment and Conservation	1 TVL
EV5107:03 Environmental Management Policy & Governance	3 TVL
BZ5450:03 Ecological & Conservation Genetics	2 TVL
EV5003:03 Environmental Economics	2 TVL
Coastal Resource Management	
EV5406:03 Coral Reef Geomorphology	1 TVL
EV5203:03 Conserving Marine Wildlife: Sea Mammals, Birds and Reptiles	1 TVL
EV5020:03 Human Dimensions of Nature, Environment and Conservation	1 TVL
MB5270:03 Coastal, Estuarine & Mangrove Ecosystems	2 TVL
Unique Ecosystems	
SC5810:03 Marine Ecology and Upwelling	7 (Galapagos)
MB5001:03 Tropical Marine Ecology and Coastal Impacts	10 (Thailand)