

**RECOMMENDED STUDY PLAN****2021-2022**

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

DEGREE Master of Science-Professional MAJOR Environmental Management (ENM)

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**Course information – Master of Science (Professional)**

The Master of Science (Professional) degree is structured such that students take sets of (1) foundational ‘*knowledge*’ specific to their major, (2) technical and / or analytical ‘*skills*’ subjects, (3) *elective* subjects and (4) a capstone professional practice module in their final semester. The capstone module is either a research project or an industry internship.

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-professional> .

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***Environmental Management major structure***

1. Take the following 4 prescribed **Knowledge** subjects
  - 1.1. [EV5107](#) International Environmental Policy and Governance (SP3)
  - 1.2. [EV5020](#) Human Dimensions of Nature, Environment and Conservation (SP1)
  - 1.3. [EV5701](#) Managing Coastal and Marine Environments (SP1) or EV5200 Natural Resource Management (SP2)
  - 1.4. [EV5209](#) Principles and Practices of Protected Area Management (SP3)
2. Take 4 **Skills** subjects:
  - 2.1. Take [EV5110](#) Environmental and Social Impact Assessment (SP2) **Obligatory; PLUS:**
  - 2.2. Take 1 of the following Advanced Skill subjects from [List 1](#):
    - 2.2.1. [BS5260](#) Modelling Ecological Dynamics (SP2)
    - 2.2.2. [BZ5450](#) Ecological and Conservation Genetics (SP2)
    - 2.2.3. [EV5502](#) Advanced Geographic Information Systems (SP11)
    - 2.2.4. [EV5506](#) Remote Sensing (SP9 / SP11)
    - 2.2.5. [MB5300](#) Sampling and Experimental Design **OR** [SC5502](#):03 Design and Analyses in Ecological Studies (SP3)
  - 2.3. Take 2 Additional Skill subjects from [List 2](#).
    - 2.3.1. [SC5200](#) Professional Employability (SP1 and SP2)  
*SC5200 is recommended for all students in their first semester of study & compulsory if you are taking the internship program (SC5009) in item 4 below.*
3. Take 4 **Elective** subjects from [List 3](#).
4. Take a 12 credit point **Professional Practice** Option
  - 4.1. Option 1 – Research Project (two parts: SC5912 & SC5913) **OR**
  - 4.2. Option 2 – Professional Employability (SC5009 Postgraduate Internship)

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 EV5209 in SP3 followed by EV5107.

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="#">MB5300</a> :03 Sampling and Experimental Design <sup>1</sup>			<a href="#">BZ5450</a> :03 Ecological and Conservation Genetics	<a href="#">EV5502</a> :03 Advanced Geographic Information Systems - TSV
<a href="#">SC5502</a> :03 Design and Analyses in Ecological Studies			<a href="#">EV5110</a> :03 Environmental and Social Impact Assessment	<a href="#">EV5506</a> :03 Remote Sensing -CNS LTD (SP9: Sept to Nov)
			<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 2. Additional Skill Subjects (Select 2)**

<b>SP3</b> Jan – Feb	<b>SP1</b> Feb - June	<b>SP7</b> June - July	<b>SP2</b> July - Nov	<b>SP9</b> Sept to Dec <b>SP10 / 11</b> Nov - Dec
<a href="#">SC5502</a> :03 Design and Analyses in Ecological Studies	<a href="#">SC5200</a> :03 Professional Employability	<a href="#">BZ5990</a> :03 Toolkit for the Field Biologist ( <i>Terrestrial studies</i> )	<a href="#">SC5200</a> :03 Professional Employability	<a href="#">AQ5004</a> :03 Aquaculture: Stock Improvement
	<a href="#">SC5202</a> :03 Quantitative Methods in Science	<a href="#">EA5018</a> :03 Field Studies in Tropical Land and Water Science	<a href="#">BZ5450</a> :03 Ecological and Conservation Genetics	<a href="#">EV5502</a> :03 Advanced Geographic Information Systems - TSV
		<a href="#">EA5330</a> :03 Field Techniques ( <i>earth sciences</i> )	<a href="#">CH5203</a> :03 Analytical Chemistry (Advanced)	<a href="#">EV5506</a> :03 Remote Sensing - CNS (SP9 start)
		<a href="#">EA5044</a> :03 Geological Mapping	<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	

## Professional Practice

Select one of the following options:

### *Option 1 - Research Project*

- Take [SC5912:06](#) Research Project (Part 1 of 2) & [SC5913:06](#) (Part 2 of 2)

You can take the research project all in your final semester, or spread it over 2 semesters. Enrolment is conditional on attaining a minimum GPA of 5.5 from the preceeding coursework units, and having a research project + supervisor confirmed.

Taking this research project is a pathway into a PhD program. More information about PhD pathways can be found [here](#).

### *Option 2 - Professional Employability*

- Take [SC5009:12](#) Postgraduate Internship

This unit is to be taken in your final semester of study. Students must have completed the pre-requisite subject [SC5200:03](#) *Professional Employability*. This pre-requisite unit should be taken in your first semester of study (in Year 1) and is recommended for both research and internship track students.

If you are seeking to gain employment in your field directly after the Master degree, then you should take the Professional Employability Option.

Detailed information about the Professional Practice options is provided to students during their first year of study and available on the LearnJCU course page (Organisations & Communities tab).

## 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 ENVIRONMENTAL MANAGEMENT** - These are our recommended and most popular units grouped by particular career pathways and/or study interests.

TOPIC	STUDY PERIOD
<i>Marine and Coastal Resource Management</i>	
MB5310:03 Marine Reserves as Fisheries Management Tools	3
AQ5015:03 Sustainable Aquaculture	3
MB5003:03 Fisheries science	1
EV5406:03 Coral Reef Geomorphology	1
AQ5006:03 Aquaculture: Principles and Practices	1
EV5701:03 Managing Coastal & Marine Environments	1
MB5204:03 Conserving Marine Wildlife: Sea Mammals, Birds and Reptiles	1
MB5260:03 Grand Challenges in Fisheries	1
MB5004:03 Marine Conservation Biology	2
MB5270:03 Coastal, Estuarine and Mangrove Ecosystems	2
MB5190:03 Coral Reef Ecology	2

EV5401:03 Coastal and Catchment Geomorphology	2
MB5610:03 Fishing Gear and Technologies	2
MB5014:03 Managing Tropical Fisheries	11
MB5001:03 Tropical Marine Ecology and Coastal Impacts	11
<i>Terrestrial Resource Management</i>	
BZ5740:03 Wildlife Ecology and Management	1
EV5015:03 Sustainability in Practice	1
BZ5215:03 Conservation Biology	1
EV5200:03 Natural Resource Management	1
BZ5755:03 Biodiversity and Climate Change: Impact, Mitigation and Adaptation	7
BZ5620:03 Tropical Flora of Australia (Cairns)	7
BS5460:03 Fundamentals of Ecology	2
<i>Interdisciplinary Study</i>	
EV5015:03 Sustainability in Practice	1
EC5218:03 Economics and Sustainable Resource Management	1
LA2902:03 Environmental Law and Policy	1
AN5006:03 Asia Pacific Development: Culture and Globalisation	2
EV5003:03 Environmental Economics	2
EV5404:03 Field Studies in Tropical Geography <i>Only taught in even-numbered years.</i>	11

## 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 (TP1 Jan – June)</b>			<b>TEACHING PERIOD 2 (TP2 July – December)</b>	
<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="#">EV5107</a> International Environmental Policy and Governance	<b>Major Core:</b> <a href="#">EV5020</a> Human Dimensions of Nature, Environment and Conservation		<b>Skill Core:</b> <a href="#">EV5110</a> Environmental and Social Impact Assessment	<b>Advanced Skill subject</b>
<b>Major Core:</b> <a href="#">EV5209</a> Principles and Practices of Protected Area Management (or SP7)	<b>Major Core:</b> <a href="#">EV5701</a> Managing Coastal and Marine Environments (SP1)		<b>Skill Subject</b> <a href="#">SC5200</a> Professional Employability <i>recommended</i> <sup>a</sup>	
			<b>Elective or Skill Subject</b>	

**Notes:** Pink are core knowledge subjects, Grey are skills subjects, White are electives, Blue are professional practice.

<sup>a</sup> SC5200 unit is recommended for all students and should be taken in the first study period of your degree. It is offered in both SP1 and SP2.

Year 2 Take 24 credit points, with 12 credit points in each teaching period				
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		<b>Professional Practice (12cp)</b> <i>Pre-requisite conditions apply to both streams</i> <ul style="list-style-type: none"> <li>RESEARCH PROJECT (SC5912+SC5913)</li> </ul> OR <ul style="list-style-type: none"> <li>POSTGRADUATE INTERNSHIP (SC5009)</li> </ul> <i>Pre-requisite unit SC5200</i>  This module should be the final subject of your degree.	
	Elective			
	Elective			