

**RECOMMENDED STUDY PLAN****2020-2021**

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

DEGREE PROGRAM **Master of Science** MAJOR **Environmental Management (MSC-ENM)**

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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 (3) *elective* subjects and (4) a capstone *project* module.

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

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***Environmental Management major structure:***

1. Take 4 prescribed ‘*knowledge*’ subjects
  - 1.1. [EV5107](#):03 International Environmental Policy and Governance
  - 1.2. [EV5020](#):03 Human Dimensions of Nature, Environment and Conservation
  - 1.3. [EV5200](#):03 Natural Resource Management<sup>1</sup> **OR** [EV5701](#):03 Managing Coastal and Marine Environments
  - 1.4. [EV5209](#):03 Principles and Practices of Protected Area Management
2. Take 4 ‘*skills*’ subjects for your major
  - 2.1. [EV5110](#):03 Environmental and Social Impact Assessment
  - 2.2. Plus 1 of the following *advanced skills* subject
    - 2.2.1. [BS5260](#):03 Modelling Ecological Dynamics **or**
    - 2.2.2. [BZ5450](#):03 Ecological and Conservation Genetics **or**
    - 2.2.3. [EV5110](#):03 Environmental and Social Impact Assessment **or**
    - 2.2.4. [EV5502](#):03 Advanced Geographic Information Systems **or**
    - 2.2.5. [EV5506](#):03 Remote Sensing
  - 2.3. Plus 2 subjects from **List 1**
3. Take 4 *elective* subjects (see recommended electives list)

Full subject descriptions and timings of all subjects can be found online using the [Subject Search](#) tool. 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. For example, EV5502 assumes you have already taken EV5505 or an equivalent at JCU or at your previous university.

***Research Projects and Placement subjects.*** Students wishing to take a 12 credit point independent research project or professional placement need to transfer into the Master of Science (Professional) program to complete these.

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<sup>1</sup> Not offered in 2020

## RECOMMENDED STUDY PLAN

Colour legend: Pink are core 'major or knowledge' subjects, Grey are skills subjects, White are electives.

Level 5: Year 1 (take 8 subjects / 24 credit points)

SP3	SP1	SP6/7	SP2	SP9/10/11
<b>Major Core:</b> <a href="#">EV5107:03</a> International Environmental Policy and Governance	<b>Major Core:</b> <a href="#">EV5020:03</a> Human Dimensions of Nature, Environment and Conservation		<b>Major Core:</b> <a href="#">EV5200:03</a> Natural Resource Management <b>or</b> <a href="#">EV5701:03</a> Managing Coastal and Marine Environments (SP1)	<b>Skill subject</b>
<b>Major Core:</b> <a href="#">EV5209:03</a> Principles and Practices of Protected Area Management (or SP7)	<b>Advanced skill subject</b>		<b>Major Skill Core:</b> <a href="#">EV5110:03</a> Environmental and Social Impact Assessment	
	<b>Skill subject</b>			

Notes:

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 (take 12 credit points)

SP3	SP1	SP6/7	SP2	SP10/SP11
<b>Elective</b>	<b>Elective</b>			
	<b>Elective</b>			
	<b>Elective</b>			

*Skill Subjects:*

In addition to the **Major Core Skill Subject** (EV5110), choose 1 advanced skill subject 2 subjects from **List 1**. You must meet the Assumed Knowledge or Prerequisites for any subject selected.

## Advanced Skill Subjects (Select 1)

SP1	SP2	SP9/SP10/SP11
<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 TSV
	<a href="#">EV5110</a> :03 Environmental and Social Impact Assessment	<a href="#">EV5506</a> :03 Remote Sensing -CNS LTD (SP9)

## List 1 – Additional Skill Subjects (Select 2)

SP3	SP1	SP6/7	SP2	SP9/SP10/SP11
<a href="#">SC5502</a> :03 Design and Analyses in Ecological Studies	<a href="#">SC5202</a> :03 Quantitative Methods in Science <sup>2</sup>	<a href="#">EA5018</a> :03 Field Studies in Tropical Land and Water Science <sup>3</sup>	<a href="#">BC5203</a> :03 Advanced Bioinformatics	<a href="#">AQ5004</a> :03 Aquaculture: Stock Improvement
<a href="#">MB5300</a> :03 Sampling and Experimental Design <sup>4</sup>	<a href="#">BS5260</a> :03 Modelling Ecological Dynamics	<a href="#">EA5330</a> :03 Field Techniques <sup>3</sup>	<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="#">SC5232</a> :03 Marine Sensor Technologies and Applications <sup>5</sup>	<a href="#">CH5203</a> :03 Analytical Chemistry (Advanced)	<a href="#">EV5506</a> :03 Remote Sensing -CNS LTD (SP9)
		<a href="#">BZ5990</a> :03 Toolkit for the Field Biologist	<a href="#">EV5110</a> :03 Environmental and Social Impact Assessment	<a href="#">EA5640</a> :03 Advanced Marine Geoscience Technologies and Applications
		<a href="#">EA5044</a> :03 Geological Mapping <sup>3</sup>	<a href="#">EV5505</a> :03 Introduction to Geographic Information Systems	
			<a href="#">MA5405</a> :03 Data Mining	

<sup>2</sup> SC5202 is a required unit if you have not already completed a statistics subject at university.

<sup>3</sup> Not intended for students in Marine Biology, Fisheries, Aquaculture or Tropical Biology & Conservation

<sup>4</sup> Merged with SC5502 for 2020. SC5202 is a required unit if you have not already completed a statistics subject at university

<sup>5</sup> Not yet available

## 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

**Recommended elective subjects for the ENVIRONMENTAL MANAGEMENT Major** - These are our recommended elective subject sets for specific 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
MB5003:03 Fisheries science	1
EV5406:03 Coral Reef Geomorphology	1
AQ5015:03 Sustainable Aquaculture	3
EV5701:03 Managing Coastal & Marine Environments	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
MB5014:03 Managing Tropical Fisheries	11
MB5001:03 Tropical Marine Ecology and Coastal Impacts	11
MB5610:03 Fishing Gear and Technologies	2
MB5204:03 Conserving Marine Wildlife: Sea Mammals, Birds and Reptiles	1
MB5260 Grand Challenges in Fisheries	1
<i>Terrestrial Resource Management</i>	
BZ5615:03 Plant Survival in a Land of Fire, Flood and Drought	1
BZ5740:03 Wildlife Ecology and Management	1
EV5015:03 Sustainability in Practice	1
BZ5215:03 Conservation Biology	1
EV5200:03 Natural Resource Management	2
BZ5755:03 Biodiversity and Climate Change: Impact, Mitigation and Adaptation	7
BS5460:03 Fundamentals of Ecology	2
BZ5620:03 Tropical Flora of Australia	7
<i>Additional Interdisciplinary Study</i>	
EV5015:03 Sustainability in Practice	1
EV5404:03 Field Studies in Tropical Geography	11
<i>Note- Offered in even-numbered years.</i>	
AN5006:03 Asia Pacific Development: Culture and Globalisation	2
EV5003:03 Environmental Economics	2
LA5902:03 Environmental Law and Policy	1
EV5130:03 Urban Ecosystems	2
EV5252 :03 Indigenous Environmental Management	2
EC5218:03 Economics and Sustainable Resource Management	1

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