

## RECOMMENDED STUDY PLAN

2022

DEGREE Master of Science

MAJOR Environmental Management (ENM)

NAME \_\_\_\_\_

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

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### Course information – Master of Science

The Master of Science degree is structured such that students take sets of foundational ‘*knowledge*’ specific to their major, technical and / or analytical ‘*skills*’ subjects, *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.

For more information relevant to the degree see the JCU Course handbook for the [Master of Science](#).

Students wishing to take a semester long internship or research project need to transfer to the [Master of Science \(Professional\)](#) degree. This should be done before you start your course.

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### *Environmental Management major structure*

1. Take the following 3 **Knowledge** subjects:
  - 1.1. [EV5020](#) Human Dimensions of Nature, Environment and Conservation (SP3)
  - 1.2. [EV5200](#) Natural Resource Management (SP2)
  - 1.3. [EV5701](#) Coastal and Marine Management and Conservation (SP1)
  
2. Take these **Skills** subjects:
  - 2.1. [SC5200](#) Professional Employability (SP1 OR SP2)AND
  - 2.2. [EV5110](#) Environmental and Social Impact Assessment (SP2)AND take 1 of these advanced skill subjects (Major Core Option):
  - 2.3. [BS5260](#) Modelling Ecological Dynamics (SP1)
  - 2.4. [BZ5450](#) Ecological and Conservation Genetics (SP2)
  - 2.5. [EV5502](#) Advanced Geographic Information Systems (SP11)
  - 2.6. [EV5506](#) Remote Sensing (SP9)
  - 2.7. [SC5502](#) Design and Analysis in Ecological Studies (SP2)

AND take 1 additional skill subject from [List 1](#)

3. Take 5 **Elective** subjects  
*See recommendations for your major below.*

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Descriptions and availabilities of all subjects can be found online using the [Subject Search](#) tool. Use this 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 in SP11 (November) a student can take both EV5502 and EA5640.

Please note that availability of some subjects sometimes changes. 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.

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## YOUR STUDY PLANNER

Fill in the cells below with your planned subjects. You can re-arrange when you take your skill and elective subjects depending 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 Study Period 1 (SP1) or Study Period 2 (SP2). Pink are core subjects.

### February start

**Year 1** Take 8 subjects (24 credit points) with approx. 4 subjects per 6 month Teaching Period

Teaching Period 1 (January-Jun)			Teaching Period 2 (July-December)	
<b>Study Period 3</b> (Jan-Feb)	<b>Study Period 1</b> (Feb-May)	<b>SP 6</b> (May-Jul) <b>SP 7</b> (Jun-Jul)	<b>Study Period 2</b> (Jul-Nov)	<b>SP 9</b> (Sept-Nov) <b>SP 10</b> (Nov-Jan) <b>SP 11</b> (Nov-Feb)
	<b>Major Core: EV5701</b> Coastal and Marine Management and Conservation		<b>Major Core: EV5200</b> Natural Resource Management	<b>Skill</b> or <b>Elective</b>
	<b>Major Core: SC5200</b> Professional Employability – available SP1 & SP2		<b>Major Core: EV5110</b> Environmental and Social Impact Assessment	
	<b>Skill</b> or <b>Elective</b>		<b>Major Core Option:</b> Select 1 subject from the list above. Can take this subject anywhere within this year	
	<b>Skill</b> or <b>Elective</b>			

**Year 2** Take 12 credit points in Teaching Period1

<b>Teaching Period 1</b> (January-Jun)		
<b>Study Period 3</b> (Jan-Feb)	<b>Study Period 1</b> (Feb-May)	<b>Study Period 6</b> (May-Jul) <b>Study Period 7</b> (Jun-Jul)
<b>Major Core: <u>EV5020</u></b> Human Dimensions of Nature, Environment and Conservation	<b>Skill</b> or <b>Elective</b>	
	<b>Skill</b> or <b>Elective</b>	
	<b>Skill</b> or <b>Elective</b>	
	<b>Skill</b> or <b>Elective</b>	

**July start**

**Year 1:** Take 4 subjects (or 12 credit points) in teaching period 2.

<b>Teaching Period 2 (July-December)</b>	
<b>Study Period 2</b> (Jul-Nov)	<b>SP 9</b> (Sept-Nov) <b>SP 10</b> (Nov-Jan) <b>SP 11</b> (Nov-Feb)
<b>Major Core:</b> <u>EV5200</u> Natural Resource Management	<b>Skill</b> or <b>Elective</b>
<b>Major Core:</b> <u>EV5110</u> Environmental and Social Impact Assessment	
<b>Major Core Option:</b> Select 1 subject from the list above. Can take this subject anywhere within this year	

**Year 1-2:** Take 24 credit points, with 12 credit points per Teaching Period

Teaching Period 1 (January-Jun)			Teaching Period 2 (July-December)	
SP 3 (Jan-Feb)	Study Period 1 (Feb-May)	SP 6 (May-Jul) SP 7 (Jun-Jul)	Study Period 2 (Jul-Nov)	SP 9 (Sept-Nov) SP 10 (Nov-Jan) SP 11 (Nov-Feb)
Major Core: <u>EV5020</u> Human Dimensions of Nature, Environment and Conservation	Major Core: <u>EV5701</u> Coastal and Marine Management and Conservation		Skill or Elective	
	Major Core: <u>SC5200</u> Professional Employability – available SP1 & SP2		Skill or Elective	
	Skill or Elective		Skill or Elective	
			Skill or Elective	

**List 1. Additional Skill Subjects (Select 1)**

<b>Study Period 3</b> (Jan-Feb)	<b>Study Period 1</b> (Feb-Jun)	<b>Study Period 6</b> (May-Jul) <b>Study Period 7</b> (Jun-Jul)	<b>Study Period 2</b> (Jul-Nov)	<b>Study Period 9</b> (Sept-Nov) <b>Study Period 10</b> (Nov-Jan) <b>Study Period 11</b> (Nov-Feb)
<u>EV5020</u> Human Dimensions of Nature, Environment and Conservation	<u>BS5260</u> Modelling Ecological Dynamics	<b>SP6</b> <u>EA5018</u> Field Studies in Tropical Land and Water Science	<u>BC5203</u> Advanced Bioinformatics	<b>SP10</b> <u>AQ5004</u> Aquaculture: Stock Improvement
		<b>SP6</b> <u>EA5044</u> Geological Mapping	<u>BZ5450</u> Ecological and Conservation Genetics	<b>SP9</b> <u>EV5506</u> Remote Sensing
	<u>SC5202</u> Quantitative Methods in Science	<b>SP7</b> <u>BZ5990</u> Toolkit for the Field Biologist	<u>CH5203</u> Analytical Chemistry (Advanced)	<b>SP11</b> <u>EA5640</u> Advanced Marine Geoscience Technologies and Applications
		<b>SP7</b> <u>EA5330</u> Field Techniques	<u>EV5110</u> Environmental and Social Impact Assessment	<b>SP11</b> <u>EV5502</u> Advanced Geographic Information Systems
			<u>EV5505</u> Introduction to Geographic Information Systems	
<u>MA5405</u> Data Mining				
<u>SC5502</u> Design and Analyses in Ecological Studies				

## 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 ENVIRONMENTAL MANAGEMENT Major** - These are our recommended and most popular units in your major.

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 Coastal and Marine Management and Conservation	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
BZ5235:03 Biological Invasions	1
EV5200:03 Natural Resource Management	1
BZ5755:03 Climate Change and Biodiversity	7
BZ5620:03 Tropical Flora of Australia (Cairns)	7
BS5460:03 Fundamentals of Ecology	2
BZ5230:03 Ecological Research Methods	2 (Cairns) 10 (Townsville – TBA)
BZ5930:03 Conservation in a Changing World: Issues and Solutions	2
<i>Interdisciplinary Study</i>	
EV5015:03 Sustainability in Practice	1
EC5218:03 Economics and Sustainable Resource Management	Trimester 1
LA5902:03 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