RECOMMENDED STUDY PLAN   2022

DEGREE <u>Master of Science (Prof)</u>   MAJOR <u>Environmental Management (ENM)</u>

NAME _____   STUDENT NUMBER _____

Course information – Master of Science (Professional)

The Master of Science (Professional) degree is structured such that students take sets of foundational '*knowledge*' specific to their major, technical and / or analytical '*skills*' subjects, *elective* subjects and 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 <u>here</u>. 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 <u>Master of Science (Professional)</u>

Environmental Management major structure

1. Take the following 3 **Knowledge** subjects:
    1.1. <u>EV5020</u> Human Dimensions of Nature, Environment and Conservation (SP3)
    1.2. <u>EV5200</u> Natural Resource Management (SP2)
    1.3. <u>EV5701</u> Coastal and Marine Management and Conservation (SP1)

2. Take these **Skills** subjects:
    2.1. <u>SC5200</u> Professional Employability (SP1 OR SP2)
        AND
    2.2. <u>EV5110</u> Environmental and Social Impact Assessment (SP2)

    AND take 1 of these advanced skill subjects (Major Core Option):
    2.3. <u>BS5260</u> Modelling Ecological Dynamics (SP1)
    2.4. <u>BZ5450</u> Ecological and Conservation Genetics (SP2)
    2.5. <u>EV5502</u> Advanced Geographic Information Systems (SP11)
    2.6. <u>EV5506</u> Remote Sensing (SP9)
    2.7. <u>SC5502</u> 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.

4. Take a 12 credit point **Professional Practice** option to complete your degree
        Option 1 – Research Project (two parts: take SC9512 & SC5913) ***OR***
        Option 2 – Internship (SC5009 Postgraduate Internship)

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.

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)	
Study Period 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: EV5701 Coastal and Marine Management and Conservation		**Major Core:** EV5200 Natural Resource Management	**Skill** or **Elective**
	Major Core: SC5200 Professional Employability – available SP1 & SP2		**Major Core:** EV5110 Environmental and Social Impact Assessment	
	Skill or **Elective**		**Major Core Option:** Select 1 subject from the list above. Can take this subject anywhere within this year	
	Skill or **Elective**			

Year 2   Take 24 credit points, with 12 credit points per Teaching Period

Teaching Period 1 (January-Jun)			Teaching Period 2 (July-December)	
Study Period 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: EV5020 Human Dimensions of Nature, Environment and Conservation	**Skill** or **Elective** **Skill** or **Elective** **Skill** or **Elective**		**Option 1 - Research Stream** SC5912 Research Project (Part 1 of 2) SC5913 Research Project (Part 2 of 2) OR **Option 2 – Professional Employability Stream** SC5009 Postgraduate Internship	

July start

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

Teaching Period 2 (July-December)		
Study Period 2 (Jul-Nov)		**SP 9** (Sept-Nov) **SP 10** (Nov-Jan) **SP 11** (Nov-Feb)
Major Core: EV5200 Natural Resource Management		**Skill** or **Elective**
Major Core: EV5110 Environmental and Social Impact Assessment		
Major Core Option: 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: EV5020 Human Dimensions of Nature, Environment and Conservation	**Major Core:** EV5701 Coastal and Marine Management and Conservation		**Skill** or **Elective**	
	Major Core: SC5200 Professional Employability – available SP1 & SP2		**Skill** or **Elective**	
	Skill or **Elective**		**Skill** or **Elective**	
			Skill or **Elective**	

Year 2: Take 12 credit points in Teaching Period 1

Teaching Period 1 (January-Jun)	
SP 3 (Jan-Feb)	**Study Period 1** (Feb-May)
	Option 1 - Research Stream SC5912 Research Project (Part 1 of 2) SC5913 Research Project (Part 2 of 2) OR **Option 2 – Professional Employability Stream** SC5009 Postgraduate Internship

List 1. Additional Skill Subjects (Select 1)

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

Professional Practice Options

Take one of the following:

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 preceding 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.*

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).

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
Marine and Coastal Resource Management	
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
MB5620:03 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

Terrestrial Resource Management	
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	10
BZ5930:03 Conservation in a Changing World: Issues and Solutions	2
Interdisciplinary Study	
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 *Only taught in even-numbered years.*	11