The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN 2022

DEGREE Master of Science MAJOR Fisheries Science and Management (FSM)

NAME _____ STUDENT NUMBER _____

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.

Fisheries Science & Management major structure

1. Take the following 4 **Knowledge** subjects:
   1.1. MB5003 Fisheries Science (SP1)
   1.2. MB5610 Fishing Gear and Technologies (SP2) ***OR*** MB5620 Grand Challenges in Fisheries (SP1)
   1.3. MB5014 Managing Tropical Fisheries (SP11)
   1.4. EV5020 Human Dimensions of Nature, Environment and Conservation (SP3)

2. Take these **Skills** subjects:
   2.1. SC5200 Professional Employability (SP1 OR SP2)
   AND
   2.2. SC5502 Design and Analyses in Ecological Studies (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. EV5110 Environmental and Social Impact Assessment (SP2)
   2.6. EV5502 Advanced Geographic Information Systems (SP11)
   2.7. EV5506 Remote Sensing (SP9)

   AND take 1 additional skill subject from **List 1**

3. Take 4 **Elective** subjects
   See recommendations for your major below.

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: MB5003 Fisheries Science		**Major Core:** SC5502 Design and Analyses in Ecological Studies	**Major Core:** MB5014 Managing Tropical Fisheries
	Major Core: SC5200 Professional Employability – available SP1 & SP2		**Major Core:** MB5610 Fishing Gear and Technologies ***OR*** MB5620 Grand Challenges in Fisheries (SP1)	
	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 12 credit points in Teaching Period1

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

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: SC5502 Design and Analyses in Ecological Studies	**Major Core:** MB5014 Managing Tropical Fisheries
Major Core: MB5610 Fishing Gear and Technologies ***OR*** MB5620 Grand Challenges in Fisheries (SP1)	
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

<table>
<tr><th colspan="3">Teaching Period 1 (January-Jun)</th><th colspan="2">Teaching Period 2 (July-December)</th></tr>
<tr><th>SP 3
(Jan-Feb)</th><th>Study Period 1
(Feb-May)</th><th rowspan="2">SP 6 (May-Jul)
SP 7 (Jun-Jul)</th><th>Study Period 2
(Jul-Nov)</th><th>SP 9 (Sept-Nov)
SP 10 (Nov-Jan)
SP 11 (Nov-Feb)</th></tr>
<tr><td rowspan="2">Major Core: EV5020 Human Dimensions of Nature, Environment and Conservation</td><td>Major Core: MB5003 Fisheries Science</td><td rowspan="4"></td><td>Skill
or
Elective</td><td rowspan="4"></td></tr>
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or
Elective</td></tr>
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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	

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 FISHERIES, SCIENCE & MANAGEMENT Major - These are our recommended and most popular units in your major.

TOPIC	STUDY PERIOD
Fisheries Science (biology)	
MB5055:03 Biological Oceanography	1
MB5620:03 Grand Challenges in Fisheries	1
MB5070:03 Marine Biogeography	1
AQ5006:03 Aquaculture: Principles and Practices	1
BS5260:03 Modelling Ecological Dynamics	1
MB5380:03 Invertebrate Biology	2
AQ5007:03 Aquatic Animal Ecophysiology	2
AQ5004:03 Aquaculture: Stock Improvement	11
AQ5015:03 Sustainable Aquaculture	3
Fisheries Management & Governance - Applications	
MB5310:03 Marine Reserves as Fisheries Management Tools	3
AQ5015:03 Sustainable Aquaculture	3
EV5701:03 Coastal and Marine Management and Conservation	1
MB5620:03 Grand Challenges in Fisheries	1
EV5003:03 Environmental Economics	2
EC5218:03 Economics and Sustainable Resource Management	Trimester 1
Fisheries Technology	
MB5055:03 Biological Oceanography	1
EV5506:03 Remote Sensing (CNS block mode)	9 (Sept – Nov)
MB5620:03 Grand Challenges in Fisheries	1
Fisheries Ecology & Conservation	
MB5310:03 Marine Reserves as Fisheries Management Tools	3
MB5620:03 Grand Challenges in Fisheries	1
MB5270:03 Coastal, Estuarine and Mangrove Ecosystems	2
MB5190:03 Coral Reef Ecology	2
MB5004:03 Marine Conservation Biology	2
MB5001:03 Tropical Marine Ecology & Coastal Impacts	11