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 Graduate Diploma of Science STREAM Marine Biology (MBY)

NAME _____ STUDENT NUMBER _____

Course information – Graduate Diploma of Science

This degree is structured such that students take sets of (1) foundational '*knowledge*' specific to their major, (2) technical and / or analytical '*skills*' subjects, and (3) *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 stream in the program 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 Graduate Diploma of Science.

Students wishing to take a semester long internship or research project need to transfer to the MSc Professional degree. This should be done before you start your JCU course. The following study plan is mirrored to the MSc Professional structure as a pathway towards completing that degree.

Marine Biology stream structure

1. Take the 2 of the following **Knowledge** subjects:
   1.1. MB5000 Advances in Marine Biology (SP8 2022)
   1.2. MB5350 Evidence and Controversy in Marine Science (not available until SP1 2023)*
   **students can request to take MB5620 Grand Challenges in Fisheries (SP1) OR MB5204 Conserving Marine Wildlife: Sea Mammals, Birds, and Reptiles (SP1) instead of MB5350 in 2022.*

2. Take these **Skills** subjects:
   2.1. SC5200 Professional Employability (SP1 OR SP2)

   AND take 2 additional skills subjects from **List 1**.

3. Take 3 **Elective** subjects
   If you are planning to transfer to the Master of Marine Biology, you need to select 3 subjects from one of the streams listed below.

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 SC5502 in SP3 followed by MB5310.

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.

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.

TEACHING PERIOD 1 (January – June)			**TEACHING PERIOD 2** (July – December)	
Study Period 3 (Feb-June)	**Study Period 1** (Feb – June)	**Study Period 6** (May-Jul) **Study Period 7** (Jun – July)	**Study Period 2** (Jul – Nov)	**Study Period 9** (Sept-Dec) **Study Period 10** (Nov – Dec) **Study Period 11** (Nov-Feb)
	Degree Core: SC5200 Professional Employability **–** available SP1 OR SP2		**Stream Option:** MB5000 Advances in Marine Biology	
	Stream Option: MB5350 Evidence in Controversy in Marine Science *Not offered in 2022 – see alternate options*		**List 1 (Skills):**	
	List 1 (Skills):		**Elective:**	
	Elective:		**Elective:**	

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

* Pre-requisite knowledge is a university level introductory statistics unit or SC5202. MB5300 and SC5502 are merged offerings in 2021. This core subject can be taken in Year 1 or at the start of Year 2.

b. 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.

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)
Stream Option: MB5350 Evidence and Controversy in Marine Science	**List 1 (Skills)** or **Elective**
Stream Option: MB5000 Advances in Marine Biology	
Elective:	

Year 2: *Take 12 credit points in teaching period 1.*

Teaching Period 1 (January – June)		
SP 3 (Feb-Jun)	**Study Period 1** (Feb-Jun)	**SP 6** (May-Jul) **SP 7** (Jun-Jul)
Elective:	**Degree Core:** SC5200 Professional Employability – available SP1 & SP2	
	List 1 (Skills) or **Elective**	
	Elective:	

List 1 (Skills) Select 2

Subjects are available at both Townsville (TSV) and / or Cairns (CNS) campus as noted. Most of these subjects have pre-requisite or co-requisite subjects. Make sure you check and have fulfilled that requirement.

SP3 Jan – Feb	**SP1** Feb - June	**SP6 / SP7** June - July	**SP2** July - Nov	**SP9** Sept to Dec **SP10 / 11** Nov - Dec
EV5020:03 Human Dimensions of Nature, Environment and Conservation – CNS & TSV	SC5202:03 Quantitative Methods in Science – CNS & TSV	EA5330:03 Field Techniques – TSV (*For geology and earth sciences)*	BC5203:03 Advanced Bioinformatics - TSV	AQ5004:03 Aquaculture: Stock Improvement - TSV
	BS5260:03 Modelling Ecological Dynamics – CNS & TSV	EA5044:03 Geological Mapping – TSV *(co-req EA5045)*	BZ5450:03 Ecological and Conservation Genetics - TSV	EV5502:03 Advanced Geographic Information Systems – TSV
		BZ5990:03 Toolkit for the Field Biologist - CNS & TSV *(for terrestrial students)*	CH5203:03 Analytical Chemistry (Advanced) – TSV	EV5506:03 Remote Sensing - CNS *(September start)*
		EA5018:03 Field Studies in Tropical Land and Water Science - CNS	EV5110:03 Environmental and Social Impact Assessment - CNS & TSV	EA5640:03 Advanced Marine Geoscience Technologies and Applications - TSV
			EV5505:03 Introduction to Geographic Information Systems - CNS & TSV	
			MA5405:03 Data Mining - TSV	

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.

Students planning to transfer into the Master of Marine Biology course should take subjects from within one of the following streams

STREAM	STUDY PERIOD
Coral Reef Science	
MB5400:03 Life History & Evolution of Reef Corals	1
MB5055:03 Biological Oceanography	1
EV5406:03 Coral Reef Geomorphology	1
MB5160:03 Evolution and Ecology of Reef Fishes	1
MB5190:03 Coral Reef Ecology	2
MB5004:03 Marine Conservation Biology	2
MB5310:03 Marine Reserves as Fisheries Management Tools	3
SC5810:03 Marine Ecology & Upwelling *(Not available in 2022)*	7 (Galapagos)
MB5001:01 Tropical Marine Ecosystems and Coastal Impacts	11 (Thailand)
Marine Conservation & Management	
EV5020:03 Human Dimensions of Nature, Environment and Conservation	3
MB5204:03 Conserving Marine Wildlife: Sea Mammals, Birds and Reptiles	1
EV5701:03 Coastal and Marine Management and Conservation	1
MB5620:03 Grand Challenges in Fisheries	1
MB5270:03 Coastal, Estuarine & Mangrove Ecosystems	2
MB5004:03 Marine Conservation Biology	2
MB5014:03 Managing Tropical Fisheries	11
MB5001:01 Tropical Marine Ecosystems and Coastal Impacts	11 (Thailand)
Marine Genomics	
BC5101:03 Advanced Genes, Genomes and Development	1
MI5003:03 Diagnosis of Bacterial Diseases in Aquaculture	1
BS5470:03 Evolution	1
MB5070:03 Marine Biogeography	1
AQ5007:03 Aquatic Animal Ecophysiology	2
BZ5450:03 Ecological and Conservation Genetics	2
BC5203:03 Advanced Bioinformatics	2
MB5004:03 Marine Conservation Biology	2
AQ5004:03 Aquaculture Stock Improvement	10
Fisheries Science	
EV5020:03 Human Dimensions of Nature, Environment and Conservation	3
MB5310:03 Marine Reserves as Fisheries Management Tools	3
AQ5015:03 Sustainable Aquaculture	3
AQ5006:03 Aquaculture: Principles & Practices	1
MB5003:03 Fisheries Science	1

MB5620:03 Grand Challenges in Fisheries	1
MB5610:03 Fishing Gear and Technologies	2
MB5014:03 Aquaculture Stock Improvement	11
AQ5004:03 Aquaculture Stock Improvement	10
Foundations in Biology & Ecology recommended for students with no undergraduate background in biology & evolutionary ecology	
BS5470:03 Evolution	1
MB5380:03 Invertebrate Biology	2
BS5460:03 Fundamentals of Ecology	2
SC5202:03 Quantitative Methods in Science	1