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 Global Change Biology (GCB)

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.

Global Change Biology - Stream structure

1. Take the 2 of the following **Knowledge** subjects:
   1.1. BZ5755 Climate Change and Biodiversity (SP7)
   1.2. BZ5930 Conservation in a Changing World: Issues and Solutions (SP2)
   1.3. BZ5935 Terrestrial Ecophysiology (SP2)
   1.4. BZ5940 Evolutionary Adaption in a Changing World (from 2023)

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 additional skill subject from **List 1**.

3. Take 3 **Elective** subjects
   See recommendations for your stream 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.

<table>
<tr><th colspan="3">**Teaching Period 1** (January – June)</th><th colspan="2">**Teaching Period 2** (July – December)</th></tr>
<tr><th>**Study Period 3**
(Feb-Jun)</th><th>**Study Period 1** (Feb-Jun)</th><th>**Study Period 6**
(May-Jul)
Study Period 7
(Jun-Jul)</th><th>**Study Period 2**
(Jul-Nov)</th><th>**Study Period 9**
(Sept-Nov)
Study Period 10
(Nov-Jan)
Study Period 11
(Nov-Feb)</th></tr>
<tr><td>**Stream Option:** see table below for options</td><td>**Degree Core:** SC5200 Professional Employability – available SP1 & SP2</td><td></td><td>**Stream Core:** SC5502 Design and Analyses in Ecological Studies</td><td>**Elective:**</td></tr>
<tr><td rowspan="2"></td><td>**Stream Option:** see table below for options</td><td rowspan="2"></td><td>**List 1 (Skills)**
or
Elective</td><td rowspan="2"></td></tr>
<tr><td>**Elective:**</td><td>**Elective:**</td></tr>
</table>

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 Core: SC5502 Design and Analyses in Ecological Studies	**Elective:**
List 1 (Skills) or **Elective**	
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)
Stream Option: see table below for options	**Degree Core:** SC5200 Professional Employability – available SP1 & SP2	**Elective:**
	Stream Option: see table below for options	
	List 1 (Skills) or **Elective**	

List 1. Skill Subjects

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.

TOPIC	STUDY PERIOD	CAMPUS
Terrestrial Biology & Ecology		
BZ5745:03 Tropical Entomology	3	Cairns & Townsville
BZ5740:03 Wildlife Ecology & Management	1	Cairns & Townsville
BZ5925:03 Australian Terrestrial Diversity	1	Cairns & Townsville
BZ5235:03 Biological Invasions	1	Cairns & Townsville
BZ5755:03 Climate Change and Biodiversity	7	Townsville
BZ5620:03 Tropical Flora of Australia	7	Cairns
BZ5650:03 Australian Land Plants: Recognition, Evolution and Diversity	1,2,7 & 11	Online - External
BZ5061:03 Behavioural Ecology	2	Cairns & Townsville
BZ5935:03 Terrestrial Ecophysiology	2	Cairns & Townsville
Applications for Ecology		
BZ5740:03 Wildlife Ecology & Management	1	Cairns & Townsville
CH5041:03 Environmental Chemistry	1	Cairns & Townsville
BZ5990:03 Toolkit for the Field Biologist	7	Cairns & Townsville
BZ5450:03 Ecological & Conservation Genetics	2	Townsville
BZ5230:03 Ecological Research Methods	2 10 (to be confirmed)	Cairns (Townsville offering to be advised)
BZ5225:03 Technological Applications in Ecology	2	Cairns & Townsville
Applications for Conservation & Management		
EV5020:03 Human Dimensions of Nature, Environment and Conservation	1	Townsville
EA5016:03 Hydrology	1	Cairns & Townsville
EA5018:03 Field Studies in Tropical Land & Water Science	6	Cairns
BZ5930:03 Conservation in a Changing World: Issues and Solutions	2	Cairns & Townsville
BZ5450:03 Ecological & Conservation Genetics	2	Townsville
EV5003:03 Environmental Economics	2	Townsville
EA5017:03 Soil Properties & Processes	2	Cairns & Townsville
Foundations – for students without 2nd year level biology and ecology		
BS5470:03 Evolution	1	Cairns & Townsville
BZ5220:03 Population and Community Ecology	2	Townsville
MB5380:03 Invertebrate Biology	2	Townsville
Marine Science		
EV5406:03 Coral Reef Geomorphology	1	Townsville
MB5204:03 Conserving Marine Wildlife: Sea Mammals, Birds and Reptiles	1	Townsville
MB5160:03 Evolution and Ecology of Reef Fishes	1	Townsville

MB5400:03 Life History & Evolution of Reef Corals	1	Townsville
MB5270:03 Coastal, Estuarine & Mangrove Ecosystems	2	Townsville
AQ5007:03 Aquatic Animal Ecophysiology	2	Townsville
MB5190:03 Coral Reef Ecology	2	Townsville
MB5001:03 Tropical Marine Ecology and Coastal Impacts	11	Thailand