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Bachelor of Advanced Science (Marine Biology)
Townsville – 2020 Beginning of Year Entry

Teaching Period 1, 2020		**Teaching Period 2, 2020**	
Study Period 1	SC1101:03 Science, Technology and Truth	Study Period 2	SC1109:03 Modelling Natural Systems-Advanced **PREREQ: MA1000 or MA1009, allow concurrent enrolment for MA1009**
Study Period 1	MA1000:03 Mathematical Foundations **PREREQ: MA1020 or Mathematics B or Maths C**	Study Period 2	MA1003:03 Mathematical Techniques **PREREQ: MA1000 or MA1011 or MA1009**
Study Period 1	**First Major Subject** BS1007:03 Introduction to Biodiversity	Study Period 2	**First Major Subject** BS1001:03 Introduction to Biological Processes
Study Period 1	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)	Study Period 2	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)
Teaching Period 1, 2021		**Teaching Period 2, 2021**	
Study Period 1	SC2209:03 Quantitative Methods in Science-Advanced **PREREQ: SC1109 and MA1003 plus6cp of other Level 1 subjects**	Study Period 2	**First Major Subject** BS2460:03 Fundamentals of Ecology **PREREQ: 6cp of Level 1 or 2 BZ/BS or EV subjects**
Study Period 1	**First Major Subject** BS2470:03 Evolution **PREREQ: BZ1001 or BS1001 or BZ1005**	Study Period 2	Select 3 credit points of subjects from List 1 (Skill subjects)
Study Period 1	**First Major Subject** MB2050:03 Functional Biology of Marine Organisms **PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006**	Study Period 2	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)
Study Period 1	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)	Study Period 2	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)

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Teaching Period 1, 2022		Teaching Period 2, 2022	
Study Period 1/2	SC3003:03 Science Research Internship **PREREQ: 15cp of AQ,BC,BZ,CH,EV,EA,MA,MB or PH Science Level 2 subjects** **OR** SC3008:03 Professional Placement **PREREQ: students must has successfully completed 12 second year credit points and be enrolled in their final year of study within the College of Science and Engineering**	Study Period 2	Select 3 credit points of subjects from List 2 (Advanced Skill Subjects)
Study Period 1	**First Major Subject** MB3210:03 Life History and Evolution of Reef Corals **PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001 or AG2001) and at least a result of Credit in MB2060 or BS2460** **ASSUMED KNOWLEDGE: Students enrolling in this subject should have a good understanding of biometrics, ecological principles and invertebrate biology.** **OR** MB3160:03 Evolution and Ecology of Reef Fishes **PREREQ: MB2050 and (MB2060 or BS2460) and a minimum mark of CREDIT in BS2470 or MB2070 (or MB5070 or equivalent)** **ASSUMED KNOWLEDGE: Students enrolled in this subject should have a good understanding of evolutionary biology and biogeography of marine organisms (eg MB2070) and vertebrate anatomy (eg BS1007). A basic knowledge of the ecology of marine systems (eg MB2050, MB2060 OR BS2460) is also necessary.**	Study Period 2	**First Major Subject** MB3190:03 Coral Reef Ecology **PREREQ: Credit or better in MB2060 or BS2460. Prior approval needed** **ASSUMED KNOWLEDGE: Students enrolling in this subject should have a good understanding of general biology and ecology (not necessarily for coral reef organisms), an ability to manipulate data and conduct basic statistical analyses (including ANOVA, Chi-square, and Regression analyses), and comprehensive understanding of major considerations for designing ecological sampling programs and experiments.** **OR** MB3270:03 Coastal, Estuarine and Mangrove Ecosystems **PREREQ: BS1007 or BZ1007 or MB2050 or SC2202 or SC2209 or BS2001 or BZ2001** **ASSUMED KNOWLEDGE: Students enrolling in this subject should have an excellent understanding of level 2 science particularly ecological principles (MB2050 or BS2460 or equivalents) and must have completed SC2202 or SC2209 or MB2050 or equivalent.**
Study Period 1	**First Major Subject** MB3050:03 Biological Oceanography **PREREQ: BS1007 or BZ1007, and MB2050, and SC2202 or SC2209 or BS2001 or BZ2001**	Study Period 2	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)
Study Period 1	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)	Study Period 2	Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure)

ADDITIONAL COURSE RULES

A maximum of 30 credit points may be taken at level 1.
A minimum of 18 credit points of science subjects must be taken at level 3 or higher.
Students may seek permission to enrol in more than one level 5 subject.

COURSE PROGRESSION REQUISITES

Should successfully complete 18 credit points of level 2 science subjects before attempting any level 5 science subject.

ADDITIONAL INFORMATION

Bachelor of Advanced Science course handbook
Marine Biology major handbook