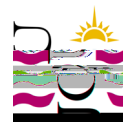


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To search for information on subjects: [Subject Search](#)



		STUDY PERIOD 1	STUDY PERIOD 2
<b>Year 2</b>	<b>Major</b> SC5200:03 Career Planning (SP1 or SP2)		<b>Mid-Year Completion</b>
	<b>Elective</b> Select 3 credit points of any level 5 AQ, BS, BZ, CH, CP, EA, EV, MA, MB, MI, SC or TV subjects		
	<b>Elective</b> Select 3 credit points of any level 5 AQ, BS, BZ, CH, CP, EA, EV, MA, MB, MI, SC or TV subjects		
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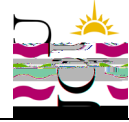
<b>SKILL SUBJECTS - List 1</b>	
STUDY PERIOD 1	STUDY PERIOD 2
<b>BS5260:03 Modelling Ecological Dynamics</b> <i>ASSUMED KNOWLEDGE: It would be advantageous for students to have a basic understanding of ECOLOGY and MATH.</i> <i>Postgraduate subject equivalent to: BS5460; undergraduate subject equivalent to: BS2460 plus any university math; or equivalent industry experience.</i>	<b>SC5502:03 Design and Analyses in Ecological Studies</b> <i>ASSUMED KNOWLEDGE: Students must have a good understanding of STATISTICS which includes knowledge of basic probability, t-tests, ANOVA and ability to use R for data analysis (or have done the JCU R Bootcamp). SC5202 or SC2202 or SC2209 or equivalent industry experience.</i> <i>Note: Not available in Tropical Biology, Fisheries or Global Change Biology Majors (it's already built into major)</i>
<b>SC5202:03 Quantitative Methods in Science</b> <i>ASSUMED KNOWLEDGE: It would be advantageous for students to have a familiarity with how to use R (or have done the "Getting Started with R module" within the JCU R Bootcamp).</i>	<b>BC5203:03 Advanced Bioinformatics</b> <i>ASSUMED KNOWLEDGE: Students must have a basic understanding of STATISTICS which includes knowledge of basic probability and ability to use R for data analysis (or have done the JCU R Bootcamp). SC5202 or SC2202 or SC2209 or will have acquired equivalent knowledge through industry experience.</i>
<b>CH5041:03 Environmental Chemistry</b> <i>ASSUMED KNOWLEDGE: Students must have a basic understanding of CHEMISTRY. They will have passed a university chemistry subject or will have acquired equivalent knowledge through industry experience.</i>	<b>BZ5450:03 Ecological and Conservation Genetics</b> <i>ASSUMED KNOWLEDGE: Students must have a good understanding of GENETICS and EVOLUTION which includes knowledge of DNA structure, microevolutionary processes, genetics of populations and genes and heredity. BS5470 or BC5101 or BS2470 or BC3101 or BC2023 or will have acquired equivalent knowledge through industry experience.</i>

**CH5203:03 Analytical Chemistry**

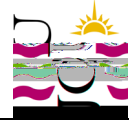
*ASSUMED KNOWLEDGE: Students must have a good understanding*

**EA5130 - Advanced Petrology**

*Prerequisites: EA2220 OR EA5048*



	EV5505:03 Introduction Geographic Information Systems
	MA5405:03 Data Mining <i>ASSUMED KNOWLEDGE: Students must have a good understanding of STATISTICS which includes knowledge of basic probability, hypothesis testing, law of large numbers, central limit theorem and ability to use R for data analysis (or have done the JCU R Bootcamp). SC5202 or SC2202 or SC2209 or will have acquired equivalent knowledge through industry experience.</i>
	BZ5225:03 Technological Applications in Ecology <i>ASSUMED KNOWLEDGE: Students must have a basic understanding of STATISTICS which includes knowledge of basic probability, t-tests, regression and ability to use R for data analysis (or</i>



*ASSUMED KNOWLEDGE: Same assumed knowledge as EA5044.*

### EA5640:03 Advanced Marine Geoscience Technologies and Applications

*ASSUMED KNOWLEDGE- It would be advantageous for students to have a basic understanding of GIS and be able to use R for data analysis (or have done the JCU R Bootcamp). EV5505 or EV2502 or will have acquired equivalent knowledge through industry experience.*

### EA5330:03 Introductory Outback Field Geology

*ASSUMED KNOWLEDGE: Students must have a basic understanding of EARTH SCIENCE which includes knowledge of rocks and minerals. EA1110 or will have acquired equivalent knowledge through industry experience.*

### EV5502:03 Advanced Geographic Information Systems

*ASSUMED KNOWLEDGE: Students must have a good understanding of GIS which includes knowledge of cartography, coordinate systems, basi42i*