

# Bachelor of Science – Marine Science & Sustainable Resource Management - Double Major

## Suggested study pathways to careers in Coastal Zone Management.

This pathway must be read in conjunction with the program requirements in the Handbook at this link <http://www.newcastle.edu.au/program/10323.html> noting especially the program enrolment checklist (link half way down the first page)

	<b>PROGRAM</b> Core & Directed courses	<b>MAJOR</b> Compulsory & Directed courses	<b>ELECTIVES</b> - any available University course - suggested choices
<b>1000 level (Yr 1)</b>	<b>STAT1070</b> Stats. for Sciences <b>MATH1001</b> Prep. Stud. Math or <b>MATH1110</b> Math 1	<b>M1 (SRM)</b> <b>BIOL1050</b> Intro Biol 2 <b>ENVS1003</b> Env. Values & Ethics ----- <b>M2 (Marine)</b> <b>BIOL1040</b> Intro Biol 1. <b>(BIOL1050</b> Intro Biol 2 – has been covered in SRM major)	<b>CHEM1110</b> Chem. for Life Sci I <b>CHEM1120</b> Chem. for Life Sci II <b>ENVS1001</b> Env Sci. Con & Meth * <b>PHYS1150</b> Everyday Phys  Choose up to four 1000 level courses
<b>2000 level (Yr 2)</b>	<b>SCIT2000</b> Science in Practice	<b>M1</b> <b>ENVS2005</b> Ecology & Mgt Aust Fauna <b>ENVS2006</b> Ecology & Mgt Aust Flora <b>ENVS2009</b> Catchments and Water Supply ----- <b>M2</b> <b>MARI2300</b> Marine Biol <b>MARI2320</b> Marine Ecol <b>(ENVS2009</b> Catchments and Water Supply – has been covered in SRM major)	<b>GEOS2161</b> GIS & Remote Sensing * <b>ENVS2004</b> Ecology * <b>ENVS2001</b> Env Con: Energy <b>ENVS2002</b> Env Legislation & Planning  Choose a minimum of two 2000 level courses
<b>3000 level (Yr 3)</b>		<b>M1</b> <b>SRMT3040</b> Commun. Resource Mgt <b>SRMT3050</b> Sustainable Land Mgt <b>SRMT3060</b> Restoration Ecology <b>ENVS3001</b> Int. Impact Ass <b>Choose a minimum of four from M1</b> ----- <b>M2</b> <b>MARI3300</b> Estuarine. Ecology <b>MARI3330</b> Marine Fish <b>MARI3400</b> Marine Sci. Proj <b>MARI3320</b> Ecol. Methodology <b>MARI3410</b> Coral Reef Ecol  <b>Choose a minimum of four from M2.</b>	

\* Highly Recommended

### IMPORTANT CAREERS AND PROGRAM INFORMATION OVERLEAF →

Link to this and other Career Pathways: <http://www.newcastle.edu.au/faculty/science-it/degree-programs/pathways/>

THIS INFORMATION IS CURRENT AS AT NOVEMBER 2011 AND IS SUBJECT TO CHANGE



# BACHELOR OF SCIENCE

## MAJORS – Marine Science, Sustainable Resource Management.

### PROGRAM INFORMATION

The Program Handbook lists all the rules you need to meet, plus courses required or available in the program. Link to the Bachelor of Science full information in the Handbook here: <http://www.newcastle.edu.au/program/10323.html>

In order to qualify for the Bachelor of Science award, a student must pass courses totalling 240 units, including:

- At least 160 units of approved science courses and obeying the structure of at least one Bachelor of Science Major. Approved science courses are all courses listed in the majors and co-majors of the Bachelor of Science, as well as the Approved Courses (Complementary to the Majors) listed below.
- Up to 80 units of general electives may be taken.
- A maximum of 100 units may be taken at 1000 level.

A **Bachelor of Science Major** consists of at least 90 units chosen from one area with at least 20 units at 1000 level, 30 units at 2000 level and 40 units at 3000 level. Students may also qualify for a double Science major or a co-major with Mathematics or Statistics.

The **160 units of approved science courses** consist of core courses, compulsory courses, and directed courses including:

<b>1000 LEVEL (60 units)</b>	<ul style="list-style-type: none"><li>• 10 unit core course - STAT1070</li><li>• 10 unit Directed MATH course (unless exempt from MATH in which case another 1000 level B Science course must be chosen in its place)</li><li>• 20 units 1000 level courses from your major</li><li>• 20 units 1000 level approved science courses</li></ul>
<b>2000 LEVEL (40 units)</b>	<ul style="list-style-type: none"><li>• 10 unit core course - SCIT2000</li><li>• 30 units 2000 level courses from your major</li></ul>
<b>3000 LEVEL (60 units)</b>	<ul style="list-style-type: none"><li>• 40 units 3000 level courses from your major</li><li>• 20 units 3000 level approved science courses</li></ul>

### OTHER UNIVERSITY INFORMATION

#### What Can I Study

<http://www.newcastle.edu.au/what-can-i-study/science/>

#### Career Pathways

<http://www.newcastle.edu.au/faculty/science-it/degree-programs/pathways/>

#### School of Environmental Life Sciences - Study Information

<http://www.newcastle.edu.au/school/environmental-and-life-sciences/areas-of-study/>

#### The University Careers Service –

<http://www.newcastle.edu.au/service/careers/>

#### Study/employment options linked to Degree or a Major

<http://newcastle.edu.au/students/degrees-to-careers/>

**Graduate Careers Australia** - <http://www.graduatecareers.com.au/>

**Course description Handbook** <http://www.newcastle.edu.au/course/>

**University General Enquiry number (02) 49215000** for help with study and administrative matters

## CAREER INFORMATION – Coastal Management/Environmental Manager/Fisheries Manager/Environmental Education Officer

Graduates in this program will have the necessary skills and knowledge in the areas of both environmental resource management and marine science. There are career opportunities in all levels of the government, non-governmental organizations with involvement in environmental resource management, academic institutions and research organizations. Professions include, park ranger, environmental officer, environmental education officer, marine scientist, marine biologist etc.

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