

Bachelor of Science – Sustainable Resource Management - Single Major

Suggested study pathways to careers in Environmental Resource Management/Catchment Management/Environmental Education

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)



	PROGRAM Core & Directed courses	MAJOR Compulsory & Directed courses	ELECTIVES - any available University course - suggested choices
1000 level (Yr 1)	STAT1070 Stats. for Sciences MATH1001 Prep. Stud. Math or MATH1110 Math 1	BIOL1050 Intro Biol 2 ENVS1003 Env. Values and Ethics	BIOL1040 Intro Biol 1 ENVS1001 Env Sci. Con & Meth* PHYS1150 Everyday Phys CHEM1110 Chem. for Life Sci I CHEM1120 Chem. for Life Sci II INFO1010 Intro to Info Sys. & Tech Choose up to six 1000 level courses
2000 level (Yr 2)	SCIT2000 Science in Practice	ENVS2005 Ecol & M'ment Aust Flora ENVS2006 Ecology & Mgt Aust Fauna ENVS2009 Catchments & Water Supply	ENVS2004 Ecology * GEOS2161 GIS and Remote Sensing* ENVS2001 Env Con: Energy ENVS2002 Env Legislation & Planning MARI2300 Marine Biol MARI2320 Marine Ecol Choose a min. of four 2000 level courses
3000 level (Yr 3)		SRMT3040 Community Resource Mg'ment SRMT3050 Sustainable Land Mg'ment SRMT3060 Restoration Ecology ENVS3001 Int. Impact Ass. Choose a minimum of four.	MARI3300 Esturine. Ecology. MARI3330 Marine Fish and Fisheries MARI3400 Marine Sci. Proj. MARI3320 Ecol. Methodology. MARI3410 Coral Reef Ecol. ENVS3002 App. Env. Sci. ENVS3003 Conservation Biology ENVS3008 Project Mg'ment & Placement ENVS3205 Climate Change & res. Mgt Choose a minimum of two

* 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/>

**SUGGESTED
CAREER PATH**

BACHELOR OF SCIENCE

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:

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

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 – Natural Resource Officer/Catchment Officer/Environmental Officer/Park Ranger

Declaration of National Strategy for Ecologically Sustainable Development (NSED) in the 1990s and the recent environmental laws have made it mandatory for any organizations involved in environmental operations (including government agencies, non-governmental organizations, Australian aid agencies working abroad, power stations, mining sector and service sector) to develop and implement environmental management plans and monitoring measures. Preparation of State of the Environment Report (SOE) at all levels of the government has become an ongoing exercise. These events have created high demand in these sectors for graduates in Sustainable Resource Management in the recent years. Graduates in this program will have the necessary skills and knowledge in the area of catchment, vegetation and wildlife management; biodiversity and habitat protection; water usage; environmental planning and impact assessment; and public awareness and community participation in environmental decision-making. There are career opportunities in all levels of the government, non-governmental organizations with involvement in environmental resource management, academic institutions and research organizations.

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