

Bachelor of Environmental Science and Management



Commencing in 2015 - 2018



Studying at Callaghan or Central Coast

See the next page for some helpful hints & tips!



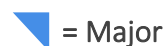
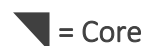
This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek prior advice from your [Program Advisor](#) to ensure you remain on track.

Year 1	BIOL1002 Organisms to Ecosystems	BIOL1003* Professional Skills for Biological Sciences I	ENVS1001 Environmental Science Concepts & Methods	ENVS1003 Environmental Values and Ethics	STAT1070 Statistics for the Sciences	MAJOR 1000 Level	MATH/PHYS PROGRAM DIRECTED 1000 level	MAJOR 1000 Level or ELECTIVE
	BIOL1070** Introduction to Biology II (Central Coast Campus)							
Year 2	ENVS2002 Environmental Legislation & Planning	GEOS2161 GIS and Remote Sensing	PHYS2300 Energy and the Environment	MAJOR 2000 Level	MAJOR 2000 Level	MAJOR 2000 Level	ELECTIVE	ELECTIVE
Year 3	ENVS3001 Integrated Impact Assessment	ENVS3002 Applied Environmental Science	MAJOR 3000 Level	MAJOR 3000 Level	MAJOR 3000 Level	MAJOR 3000 Level	ELECTIVE	ELECTIVE

* **BIOL1003 is replaced by SCIE1002. If you have successfully completed BIOL1003, you do not need to complete SCIE1002.**

** **BIOL1070 is replaced by BIOL1002 and SCIE1002. If you have successfully completed BIOL1070, you do not need to complete BIOL1002 and SCIE1002.**

Program Plan Key:



To be eligible to graduate make sure you have completed 240 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- ✓ Core courses - 100 units.
- ✓ Major courses - 80 or 90 units (depending on the Major chosen).
- ✓ Directed courses - 10 units.
- ✓ Electives - A minimum of 40 units. Visit the [Course Handbook](#) to see a list of available Electives.
- ✓ Students can only take 1 major in this program.
- ✓ Students must not exceed 100 units at 1000 level.
- ✓ Students must take a minimum of 60 units at 3000 level.
- ✓ The duration of this program is 3 years full time (40 units per semester) or part time equivalent.
- ✓ The maximum time to complete this program is 8 years.



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#).

The [Program Handbook](#) has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your [Program Advisor](#).

Bachelor of Environmental Science & Management Majors

A Major is an area of study that you wish to focus on in your program. A course will count towards your Major if it is listed as a Compulsory or Directed course under the relevant Major. You must complete at least 80 units in your Major.

Majors Courses (Compulsory Courses listed in **ORANGE**) Majors Courses (Compulsory Courses listed in **ORANGE**)

Subject to change - Please refer to the program handbook for up to date information.

<p>Earth Systems Major (90 unit major)</p>	<p>Compulsory Courses CHEM1010 Introductory Chemistry I AND CHEM1020 Introductory Chemistry II OR GEOS1040 Earth's Dynamic Systems AND GEOS1050 Earth's Processes and Products Directed Courses Choose 30 units from the following 2000 level Directed Courses: CHEM2110 Analytical Chemistry CHEM2610 Environmental Chemistry I ENVS2009 Catchment and Water Resource Management GEOS2050 River Basin Processes GEOS2060 Soil Properties and Processes GEOS2080 Earth Science Field Course GEOS2200 Earth's Sedimentary Rocks & Environments Choose 40 units from the following 3000 level Directed Courses: CHEM3110 Instrumental Chemical Analysis ECON3006 Environmental Economics ENVS3004 Ecotoxicology ENVS3007 Environmental Remediation ENVS3008 Organisational Placement in the Environmental Sector ENVS3009 Advanced Water Science and Resource Management ENVS3400 Advanced Research Project GEOS3220 Coastal Environments and Processes GEOS3250 Advanced Spatial Science GEOS3340 Climate Change and Resource Management</p>	<p>Ecosystems and Biodiversity Major (Eco. & Bio.) (80 unit major)</p>	<p>Directed Courses Choose 10 units from the following 1000 level Directed Courses: BIOL1001 Molecules, Cells and Organisms CHEM1010 Introductory Chemistry I CHEM1020 Introductory Chemistry II GEOS1040 Earth's Dynamic Systems Choose 30 units from the following 2000 level Directed Courses: BIOL2090 Microbial Biology CHEM2110 Analytical Chemistry CHEM2610 Environmental Chemistry I ENVS2004 Ecology ENVS2005 Management of Australian Flora ENVS2006 Ecology and Management of Wildlife ENVS2009 Catchment and Water Resource Management Choose 40 units from the following 3000 level Directed Courses: BIOL3100 Microbiology CHEM3110 Instrumental Chemical Analysis ECON3006 Environmental Economics ENVS3003 Conservation Biology ENVS3004 Ecotoxicology ENVS3005 Animal Behaviour ENVS3008 Organisational Placement in the Environmental Sector ENVS3009 Advanced Water Science and Resource Management ENVS3400 Advanced Research Project MARI3320 Ecological Methodology SRMT3060 Restoration Ecology</p>
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<p>Marine Science Major (90 unit major)</p>	<p>Compulsory Courses BIOL1001 Molecules, Cells and Organisms*** MARI1000 Our Oceans ENVS2004 Ecology MARI2300 Marine Biology MARI2500 Coastal & Marine Ecosystems Services + ***BIOL1001 replaces BIOL1040. If you have successfully completed BIOL1040 you do not need to complete BIOL1001. + MARI2500 replaces MARI2320 if you have successfully completed MARI2320 you do not need to complete MARI2500 Directed Courses Choose 40 units from the following 3000 level Directed Courses: ECON3006 Environmental Economics ENVS3005 Animal Behaviour ENVS3008 Organisational Placement in the Environment Sector ENVS3009 Advanced Water Science and Resource Management ENVS3400 Advanced Research Project MARI3300 Integrated Coastal Ecosystems MARI3320 Ecological Methodology MARI3330 Marine Fisheries Biology and Management – no longer offered MARI3410 Coral Reef Biology, Ecology and Sustainability</p>	<p>Sustainability Major (80 unit major)</p>	<p>Directed Courses Choose 10 units from the following 1000 level Directed Courses: BIOL1001 Molecules, Cells and Organisms ENVS1004 Social Development & the Environment GEOG1020 Introduction to Human Geography Choose 30 units from the following 2000 level Directed Courses: ENVS2004 Ecology ENVS2005 Management of Australian Flora ENVS2006 Ecology and Management of Wildlife ENVS2008 The Sustainable Society ENVS2009 Catchment and Water Resource Management GEOG2080 Cities and Regions GEOG2130 Geographies of Development SOCS2400 Applied Social Research Choose 40 units from the following 3000 level Directed Courses: ECON3006 Environmental Economics ENVS3003 Conservation Biology ENVS3006 Sustainability: Theory and Practice ENVS3008 Organisational Placement in the Environmental Sector ENVS3009 Advanced Water Science and Resource Management ENVS3400 Advanced Research Project GEOG3090 Society and Space GEOG3240 Globalisation: Cities, Economies GEOS3340 Climate Change and Resource Management MARI3320 Ecological Methodology SRMT3040 Community Resource Management SRMT3050 Sustainable Land Management SRMT3060 Restoration Ecology</p>
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