

PROGRAM ENROLMENT CHECKLIST (PEC)
Are you on track?
BACHELOR OF ENVIRONMENTAL SCIENCE and MANAGEMENT
2013 - 2014 Program

Program Code: 11587

CRICOS Code: 059877D



YOUR PROGRAM

1000 Level	2000 Level	3000 Level	To Complete the Program
APPROVED Courses made up of	APPROVED Courses made up of	APPROVED Courses made up of	
40 units of CORE Courses ENVS1001 (10 units) BIOL1002 OR BIOL1050 (10 units) ENVS1003 (10 units) STAT1070 (10 units)	30 units of CORE Courses ENVS2001 (10 units) ENVS2002 (10 units) GEOS2161 (10 units)	20 units of CORE Course ENVS3001 (10 units) ENVS3002 (10 units)	Total of 240 Units:
<i>plus</i>			40 units of CORE courses at 1000 level <input type="checkbox"/>
10 units of DIRECTED MATH at 1000 level (Please refer to Program Handbook for options)	<i>plus</i>	<i>plus</i>	30 units of CORE courses at 2000 level. <input type="checkbox"/>
<i>plus</i>	30 units of MAJOR Courses from the major you have chosen to do: _____ (10 units) _____ (10 units) _____ (10 units)	40 units of MAJOR Courses from the major you have chosen to do: _____ (10 units) _____ (10 units) _____ (10 units) _____ (10 units)	20 units of CORE courses at 3000 level. <input type="checkbox"/>
Directed Courses in your Major: 10 units of Ecosystems & Biodiversity Or 10 units of Marine Science Or 10 units of Sustainability Or 20 units of Earth Systems _____ (10 units) _____ (10 units)	<i>plus</i>	<i>plus</i>	10 units of DIRECTED courses at 1000 level (MATH/PHYS) <input type="checkbox"/>
<i>plus</i>	ELECTIVE Courses _____ (10 units) _____ (10 units)	ELECTIVE Courses _____ (10 units) _____ (10 units)	10/20 units MAJOR course at 1000 level depending on major. <input type="checkbox"/>
ELECTIVE Courses _____ (10 units) _____ (10 units)			30 units of MAJOR courses at 2000 level. <input type="checkbox"/>
			40 units of MAJOR courses at 3000 level. <input type="checkbox"/>
			Maximum of 100 units at 1000 level. <input type="checkbox"/>
			Minimum of 60 units at 3000 level. <input type="checkbox"/>
			Electives to make up 240 units. (60 units of Electives for Ecosystems & Biodiversity Major, Marine Science Major and Sustainability Major or 50 units for Earth Systems Major) <input type="checkbox"/>
Minimum to meet Core & Directed requirements. Maximum of 100 Units	No minimum or maximum other than Core & Directed requirements.	Minimum 60 units. No maximum number of units.	It is a student's responsibility to check that they are correctly enrolled.

- NOTES:**
- The Program Handbook is the official document listing all the rules you need to meet, plus courses required or available in the program <http://www.newcastle.edu.au/program/11587.html>
 - A load of 80 units per year for 3 years is the standard full-time load.
 - There are minimum and maximum requirements for totals of APPROVED (core, or directed) and ELECTIVE courses. Please ensure the conditions in the right-hand column are met.
 - An ELECTIVE course can be any unrestricted offering at the University, including any additional courses from those listed in the B Environmental Science and Management.

**Bachelor of Environmental Science and Management
2013 Program**

Earth Systems Major 90 units	Sem	Ecosystems & Biodiversity Major 90 units	Sem	Marine Science Major 90 units	Sem	Sustainability Major 90 units	Sem
20 units from 1000 level Directed courses CHEM1010 Introductory Chemistry I CHEM1020 Introductory Chemistry II GEOS1040 Earth's Dynamic Systems GEOS1050 Earth Processes and Products Students choose either CHEM1010 & CHEM1020 or GEOS1040 & GEOS1050	1 Cal 2 Cal 1 Cal 2 Cal	20 units from 1000 level Directed courses BIOL1002 Organisms to Ecosystems (Not with BIOL1050) BIOL1003 Professional Skills for Biological Sciences 1 BIOL1040 Introduction to Biology I (Not with BIOL1001) BIOL1050 Introduction to Biology II (Not with BIOL1002) CHEM1010 Introductory Chemistry I CHEM1020 Introductory Chemistry II GEOS1040 Earth's Dynamic Systems	2 Cal 2 Cal 1 CC 2 CC 1 Cal 2 Cal 1 Cal	20 units from 1000 level Directed courses BIOL1040 Introduction to Biology I (Not with BIOL1001) BIOL1050 Introduction to Biology II (Not with BIOL1002)	1 CC 2 CC	20 units from 1000 level Directed courses BIOL1040 Introduction to Biology I (Not with BIOL1001) BIOL1050 Introduction to Biology II (Not with BIOL1002) ENVS1004 Social Development & the Environment (Not with EMGT1020) GEOG1020 Introduction to Human Geography	1 CC 2 CC 1 Cal 2 Cal
30 units from 2000 level Directed courses CHEM2110 Analytical Chemistry CHEM2610 Environmental Chemistry I GEOS2050 River Basin Processes GEOS2070 Climatology and Soils GEOS2080 Earth Science Field Course ENVS2009 Catchment and Water Resource Management (Not with SRMT2030)	2 Cal 1 Cal 1 Cal 2 Cal 1 Cal 2 B	30 units from 2000 level Directed courses BIOL2090 Microbial Biology CHEM2110 Analytical Chemistry CHEM2610 Environmental Chemistry I ENVS2004 Ecology (Not with BIOL2070) ENVS2005 Ecology & Management of Australian Flora (Not with EMGT2040) ENVS2006 Ecology & Management of Australian Fauna (Not with EMGT2050 or SRMT2040) ENVS2009 Catchments and Water Resource Management (Not with SRMT2030)	2 Cal 2 Cal 1 Cal 2 B 2 B 1 B 2 B	30 units from 2000 level Directed courses ENVS2004 Ecology (Not BIOL2070) MARI2300 Marine Biology MARI2320 Marine Ecology	2 B 1 CC 2 CC	30 units from 2000 level Directed courses ENVS2004 Ecology (Not with BIOL2070) ENVS2005 Ecology & Mngt of Aust Flora (Not to count with EMGT2040) ENVS2006 Ecology & Management of Australian Fauna (Not with EMGT2050 or SRMT2040) ENVS2008 The Sustainable Society (Not with EMGT2020) ENVS2009 Catchments and Water Resource Management GEOG2080 Cities and Regions GEOG2130 Geographies of Development SOCS2400 Applied Social Research	2 B 2 B 1 B 2 Cal 2 B 1 Cal 2 Cal 2 B
40 units from 3000 level Directed courses CHEM3110 Instrumental Chemical Analysis ECON3006 Environmental Economics ENVS3004 Ecotoxicology (Not with BIOL3350) ENVS3007 Environmental Remediation (Not with EMGT3100) ENVS3008 Project Management & Placement (Not with EMGT3130) ENVS3205 Climate Change and Resource Management GEOS3250 Geographic Information Systems GEOS3280 Global Change ENVS3400 Advanced Research Project (Not with MARI3400 or SCIT3000 or SCIT3500)	1 Cal 2 Cal 1 Cal 1 Cal 1,2 B 2 Cal 1 Cal 1 Cal 1,2 B	40 units from 3000 level Directed courses BIOL3100 Microbiology CHEM3110 Instrumental Chemical Analysis ECON3006 Environmental Economics ENVS3003 Conservation Biology (Not with EMGT3030) ENVS3004 Ecotoxicology (Not with BIOL3350) ENVS3005 Animal Behaviour ENVS3008 Project Management & Placement (Not with EMGT3130) MARI3320 Ecological Methodology SRMT3060 Restoration Ecology ENVS3400 Advanced Research Project (Not with MARI3400 or SCIT3000 or SCIT3500)	1 Cal 1 Cal 2 Cal 1 B 1 Cal 1 B 1/2 B 1 CC 2 CC 1,2 B	40 units from 3000 level Directed courses ECON3006 Environmental Economics ENVS3008 Project Management & Placement (Not with EMGT3130) MARI3300 Estuarine Ecology MARI3320 Ecological Methodology MARI3330 Marine Fish & Fisheries MARI3410 Coral Reef Biology & Ecology ENVS3400 Advanced Research Project (Not with MARI3400 or SCIT3000 or SCIT3500)	2 Cal 1/2 B 2 CC 1 CC 1 CC 2 CC 1,2 B	40 units from 3000 level Directed courses ECON3006 Environmental Economics ENVS3003 Conservation Biology (Not with EMGT3030) ENVS3006 Sustainability: Theory & Practice (Not with EMGT3070) ENVS3008 Project Management & Placement (Not with EMGT3130) ENVS3205 Climate Change and Resource Management GEOG3090 Society and Space GEOG3240 Globalisation: Cities, Economies MARI3320 Ecological Methodology SRMT3040 Community Resource Management SRMT3050 Sustainable Land Management SRMT3060 Restoration Ecology ENVS3400 Advanced Research Project (Not with MARI3400 or SCIT3000 or SCIT3500)	2 Cal 1 B 1 Cal 2 B 2 Cal 1 Cal 2 Cal 1 CC 2 CC 1 CC 2 CC 1,2 B

Cal = Callaghan; CC = Central Coast; B = Offered both Callaghan and Central Coast; x = not offered 2013