

PROGRAM ENROLMENT CHECKLIST

Bachelor of Environmental Science and Management

DOUBLE MAJOR: *Earth Systems Major and Ecosystems and Biodiversity Major*

For students who commenced in this program in 2011 and 2012

1000 level courses	ENVS1001 Environmental Science Concepts and Methods (10 units) <i>(Semester 1 at Callaghan and Ourimbah)</i>	BIOL1002 Organisms to Ecosystems (10 units) <i>Not to count with BIOL1040 or BIOL1050</i> <i>(Semester 2 at Callaghan)</i>	ENVS1003 Environmental Values and Ethics (10 units) <i>(Semester 2 at Callaghan and Ourimbah)</i>	STAT1070 Statistics for the Sciences (10 units) <i>Depending on your prior Mathematics study, you are encouraged to enrol in MATH1001 in Semester One of Year One to allow you to develop the assumed knowledge required for STAT1070.</i> <i>(Semester 1 and 2 at Callaghan; Semester 2 at Ourimbah)</i>	1000 level directed course (10 units) MATH1001 <i>(Semester 1)</i> OR MATH1110 <i>(Semester 1 and 2 at Callaghan)</i> OR PHYS1150 <i>Not to count with PHYS1200, PHYS1205 and/or PHYS1210</i> <i>(Semester 2 at Ourimbah)</i>	1000 level Major ONE and Major TWO course (10 units) GEOS1040 <i>(Semester 1 at Callaghan)</i>	1000 level Major ONE course (10 units) GEOS1050 <i>(Semester 2 at Callaghan)</i>		
	CORE	CORE OR MAJOR 2	CORE	CORE	DIRECTED	MAJOR 1 and 2	MAJOR 1		
2000 level courses	ENVS2002 Environmental Legislation and Planning (10 units) <i>(Semester 1 at Callaghan and Ourimbah)</i>	ENVS2001 Environmental Concepts: Energy (10 units) <i>Students who completed ENVS2040 in 2011 or earlier do not need to complete ENVS2001</i> <i>(Semester 2 at Callaghan and Ourimbah)</i>	GEOS2161 GIS and Remote Sensing (10 units) <i>(Semester 2 at Callaghan and Ourimbah)</i>	2000 level Major ONE course (10 units) <i>(Semester 1 or 2)</i>	2000 level Major ONE course (10 units) <i>(Semester 1 or 2)</i>	2000 level Major TWO course (10 units) <i>(Semester 1 or 2)</i>	2000 level Major TWO course (10 units) <i>(Semester 1 or 2)</i>	2000 level Major ONE and Major TWO course (10 units) ENVS2009 <i>(Semester 2 at Callaghan)</i>	
	CORE	CORE	CORE	MAJOR 1	MAJOR 1	MAJOR 2	MAJOR 2	MAJOR 1 and 2	
3000 level courses	ENVS3001 Integrated Impact Assessment (10 units) <i>(Semester 1 at Callaghan and Ourimbah)</i>	ENVS3002 Applied Environmental Assessment (10 units) <i>(Semester 2 at Callaghan)</i>	3000 level Major ONE course (10 units) <i>(Semester 1 or 2)</i>	3000 level Major ONE course (10 units) <i>(Semester 1 or 2)</i>	3000 level Major ONE course (10 units) <i>(Semester 1 or 2)</i>	3000 level Major TWO course (10 units) <i>(Semester 1 or 2)</i>	3000 level Major TWO course (10 units) <i>(Semester 1 or 2)</i>	3000 level Major TWO course (10 units) <i>(Semester 1 or 2)</i>	3000 level Major ONE and Major TWO course (10 units) ENVS3008 <i>(Not offered in 2012)</i> OR ENVS3009 <i>(Not offered in 2012)</i> OR ENVS3004
	CORE	CORE	MAJOR 1	MAJOR 1	MAJOR 1	MAJOR 2	MAJOR 2	MAJOR 2	MAJOR 1 and 2
CHECKLIST: I think I am finished!						NOTES			
240 units in total						<input type="checkbox"/>			
No more than 100 units at 1000 Level						<input type="checkbox"/>			
90 units of Core courses						<input type="checkbox"/>			
10 units of 1000 Level Directed courses						<input type="checkbox"/>			
<i>Earth Systems Major</i>		90 unit Major, including: 20 units at 1000 Level, 30 units at 2000 Level and 40 units at 3000 Level				<input type="checkbox"/>			
<i>Ecosystems and Biodiversity Major</i>		90 unit Major, including: 20 units at 1000 Level, 30 units at 2000 Level and 40 units at 3000 Level				<input type="checkbox"/>			
						<p>1. It is a student's responsibility to ensure that they are correctly enrolled.</p> <p>2. To complete a Double Major, you must complete 60 <i>unique</i> units in each major including at least 20 <i>unique</i> units at 3000 level.</p> <p>3. A load of 40 units per semester (80 units per year) for three years is a standard full-time load. Students may enrol in less than 80 units per year but must complete this program within 8 years.</p>			



Program Code: 11587
CRICOS Code: 059877D
CRICOS Provider Number: 00109J

This Program Enrolment Checklist (PEC) is current at 8/3/12 and is subject to change. To access the most current PEC, please refer to your Program Handbook:
<http://www.newcastle.edu.au/program/11394.html>

Earth Systems Major 90 units	Sem	Ecosystems & Biodiversity 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 2 1 2	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 2 1 (CC) 2 (CC) 1 2 1
30 units from 2000 level Directed courses CHEM2110 Analytical Chemistry CHEM2610 Environmental Chemistry I ENVS2009 Catchments & Water Supply GEOS2050 River Basin Processes GEOS2070 Climatology and Soils GEOS2080 Earth Science Field Course	2 1 2 1 1	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 Fauna (Not with EMGT2040) ENVS2006 Ecology & Management of Australian Fauna (Not with EMGT2050 or SRMT2040) ENVS2009 Catchments & Water Supply	2 2 1 1 1 1
40 units from 3000 level Directed courses CHEM3110 Instrumental Chemical Analysis ENVS3007 Environmental Remediation (Not with EMGT3100) ENVS3008 Project Management & Placement ENVS3009 Catchment Management ENVS3205 Climate Change and Resource Management GEOS3250 Geographic Information Systems GEOS3280 Global Change ENVS3004 Ecotoxicology (Not with BIOL3350)	1 1 2 1 1 1	40 units from 3000 level Directed courses BIOL3100 Microbiology CHEM3110 Instrumental Chemical Analysis ENVS3003 Conservation Biology (Not with EMGT3030) ENVS3004 Ecotoxicology (Not with BIOL3350) ENVS3005 Animal Behaviour ENVS3008 Project Management & Placement (Not with EMGT3130) ENVS3009 Catchment Management	1 1 1 1

CC = Central Coast; Both = Offered both Callaghan and Central Coast