

**PROGRAM ENROLMENT CHECKLIST**  
**Bachelor of Environmental Science and Management**  
**DOUBLE MAJOR: *Marine Science Major and Sustainability Major***  
*For students who commenced in this program in 2011 and 2012*

<b>1000 level courses</b>	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 course (10 units)  BIOL1040 <i>(Semester 1 at Callaghan)</i> OR GEOG1020 <i>(Semester 2 at Callaghan)</i>	1000 level Major TWO course (10 units)  ENVS1004 <i>(Semester 1 at Callaghan)</i> OR GEOG1020 <i>(Semester 2 at Callaghan)</i>		
	CORE	OR BIOL1050 Introduction to Biology II (10 units) <i>Not to count with BIOL1001, BIOL1002 and/or BIOL1003</i> <i>(Semester 2 at Ourimbah)</i>	CORE	CORE	DIRECTED	MAJOR 1	MAJOR 2		
<b>2000 level courses</b>	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)  MARI2300 <i>(Semester 1 at Ourimbah)</i>	2000 level Major TWO course (10 units)  MARI2320 <i>(Semester 2 at Ourimbah)</i>	2000 level Major ONE and Major TWO course (10 units)  ENVS2004 <i>(Semester 2 at Callaghan and Ourimbah)</i>	
	CORE	CORE	CORE	MAJOR 1	MAJOR 1	MAJOR 2	MAJOR 2	MAJOR 1 and 2	
<b>3000 level courses</b>	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 MARI3320 <i>(Semester 1 at Ourimbah)</i>
	CORE	CORE	MAJOR 1	MAJOR 1	MAJOR 1	MAJOR 2	MAJOR 2	MAJOR 2	MAJOR 1 and 2
<b>CHECKLIST: I think I am finished!</b>						<b>NOTES</b>			
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>Marine Science 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>Sustainability 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"/>			
						<ol style="list-style-type: none"> <li>It is a student's responsibility to ensure that they are correctly enrolled.</li> <li>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.</li> <li>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.</li> </ol>			



**YOUR PROGRAM**

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

This Program Enrolment Checklist (PEC) is current at 30/11/2011 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>

<b>Bachelor of Environmental Science and Management 2011 - 2012 Program</b>			
<b>Marine Science Major 90 units</b>	<b>Sem</b>	<b>Sustainability Major</b>	<b>Sem</b>
<b>20 units from 1000 level Directed courses</b>		<b>20 units from 1000 level Directed courses</b>	
<b>BIOL1040</b> Introduction to Biology I (Not with BIOL1001)	1 (CC)	<b>BIOL1040</b> Introduction to Biology I (Not with BIOL1001)	1 (CC)
<b>BIOL1050</b> Introduction to Biology II (Not with BIOL1002)	2 (CC)	<b>BIOL1050</b> Introduction to Biology II (Not with BIOL1002)	2 (CC)
		<b>ENVS1004</b> Social Development & the Environment (Not with EMGT1020 or SRMT1020)	1
		<b>GEOG1020</b> Introduction to Human Geography	2
<b>30 units from 2000 level Directed courses</b>		<b>30 units from 2000 level Directed courses</b>	
<b>ENVS2004</b> Ecology (Not with BIOL2070)	1 (CC)	<b>ENVS2004</b> Ecology (Not with BIOL2070)	
<b>MARI2300</b> Marine Biology (Available Ourimbah only)	1 (CC)	<b>ENVS2006</b> Ecology & Management of Australian Fauna (Not with EMGT2050 or SRMT2040)	
<b>MARI2320</b> Marine Ecology (Available Ourimbah only)	2 (CC)	<b>ENVS2008</b> The Sustainable Society (Not with EMGT2020 or SRMT1020)	
		<b>GEOG2080</b> Cities and Regions	1
		<b>GEOG2130</b> Geographies of Development	2
		<b>SOCS2400</b> Applied Social Research	2 both
		<b>ENVS2009</b> Catchments & Water Supply	
<b>40 units from 3000 level Directed courses</b>		<b>40 units from 3000 level Directed courses</b>	
<b>ENVS3008</b> Project Management & Placement (Not with EMGT3130)	2 (CC)	<b>ENVS3003</b> Conservation Biology (Not with EMGT3030)	
<b>MARI3300</b> Estuarine Ecology (Available Ourimbah only)	2 (CC)	<b>ENVS3006</b> Advanced Studies in Sustainability (Not with EMGT3070)	
<b>MARI3320</b> Ecological Methodology (Available Ourimbah only)	1 (CC)	<b>ENVS3008</b> Project Management & Placement (Not with EMGT3130)	
<b>MARI3330</b> Marine Fish & Fisheries (Available Ourimbah only)	1 (CC)	<b>ENVS3205</b> Climate Change and Resource Management	2
<b>MARI3400</b> Marine Science Project (Available Ourimbah only)	2 (CC)	<b>GEOG3090</b> Society and Space	1
<b>MARI3410</b> Coral Reef Biology & Ecology (Available Ourimbah only)	2 (CC)	<b>GEOG3240</b> Globalisation: Cities, Economies	2
		<b>MARI3320</b> Ecological Methodology (Available Ourimbah only)	1 (CC)
		<b>SRMT3040</b> Community Resource Management (Available Ourimbah only)	2 (CC)
		<b>SRMT3050</b> Sustainable Land Management (Available Ourimbah only)	1 (CC)
		<b>SRMT3060</b> Restoration Ecology (Available Ourimbah only)	2 (CC)

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