

PROGRAM ENROLMENT CHECKLIST (PEC)  
**Are you on track?**  
**BACHELOR OF ENVIRONMENTAL SCIENCE and MANAGEMENT**  
**2011 - 2012 Program**

Program Code: 11587

CRICOS Code: 059877D



YOUR PROGRAM

1000 Level	2000 Level	3000 Level	To Complete the Program
<p style="text-align: center;"><b>APPROVED Courses made up of</b></p> <div style="border: 1px solid black; padding: 5px; background-color: #ffe4c4;"> <p><b>40 units of CORE Courses</b></p> <p>ENVS1001 (Sem 1) (Not to count with ENVS1060)</p> <p>BIOL1002 OR BIOL1050 (Sem 2)</p> <p>ENVS1003 (Sem 2)</p> <p>STAT1070 (Sem 1/2)</p> </div> <p style="text-align: center;"><i>plus</i></p> <div style="border: 1px solid black; padding: 5px; background-color: #add8e6;"> <p><b>10 units of DIRECTED Courses</b> Please read handbook for direction</p> <p>MATH1001 (Sem 1)</p> <p>MATH1110 (Sem 1/2)</p> <p>PHYS1150 (Sem 2)</p> </div> <p style="text-align: center;"><i>plus</i></p> <div style="border: 1px dashed black; padding: 5px; background-color: #90ee90;"> <p><b>Directed Courses in your Major:</b> 10 units of Ecosystems &amp; Biodiversity, Or Marine Science, Or Sustainability courses Or 20 units of Earth Systems courses</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> </div> <p style="text-align: center;"><i>plus</i></p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>ELECTIVE Courses*</b></p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> </div>	<p style="text-align: center;"><b>APPROVED Courses made up of</b></p> <div style="border: 1px solid black; padding: 5px; background-color: #ffe4c4;"> <p><b>30 units of CORE Courses</b></p> <p>ENVS2001 (Sem 2) (Not to count with ENVS2040)</p> <p>ENVS2002 (Sem 1) (Not to count with ENVS2010)</p> <p>GEOS2161 (Sem 2)</p> </div> <p style="text-align: center;"><i>plus</i></p> <div style="border: 1px dashed black; padding: 5px; background-color: #90ee90;"> <p><b>30 units of MAJOR Courses</b> from the major you have chosen to do:</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>ELECTIVE Courses*</b></p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> </div>	<p style="text-align: center;"><b>APPROVED Courses made up of</b></p> <div style="border: 1px solid black; padding: 5px; background-color: #ffe4c4;"> <p><b>20 units of CORE Course</b></p> <p>ENVS3001 (Sem 1) (Not to count with EMGT3110 or SRMT3020)</p> <p>ENVS3002 (Sem 2) (Not to count with ENVS3020)</p> </div> <p style="text-align: center;"><i>plus</i></p> <div style="border: 1px dashed black; padding: 5px; background-color: #90ee90;"> <p><b>40 units of MAJOR Courses</b> from the major you have chosen to do:</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>ELECTIVE Courses*</b></p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> <p>_____ (10 units)</p> </div>	<p style="text-align: center;"><b>Total of 240 Units:</b></p> <p>40 units of CORE courses at 1000 level <input type="checkbox"/></p> <p>30 units of CORE courses at 2000 level. <input type="checkbox"/></p> <p>20 units of CORE courses at 3000 level. <input type="checkbox"/></p> <p>10 units of DIRECTED courses at 1000 level (MATH/PHYS) <input type="checkbox"/></p> <p>10/20 units MAJOR course at 1000 level depending on major. <input type="checkbox"/></p> <p>30 units of MAJOR courses at 2000 level. <input type="checkbox"/></p> <p>40 units of MAJOR courses at 3000 level. <input type="checkbox"/></p> <p>Maximum of 100 units at 1000 level. <input type="checkbox"/></p> <p>Minimum of 60 units at 3000 level. <input type="checkbox"/></p> <p>*Electives to make up 240 units. (60 units of Electives for Ecosystems &amp; Biodiversity Major, Marine Science Major and Sustainability Major or 50 units for Earth Systems Major) <input type="checkbox"/></p>
<b>Minimum to meet Core &amp; Directed requirements. Maximum of 100 Units</b>	<b>No minimum or maximum other than Core &amp; Directed requirements.</b>	<b>Minimum 60 units. No maximum number of units.</b>	<b>It is a student's responsibility to check that they are correctly enrolled.</b>

**NOTES:**

1. 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>
2. A load of 80 units per year for 3 years is the standard full-time load.
3. 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.
4. 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  
2011 - 2012 Program**

<b>Earth Systems Major 90 units</b>	<b>Sem 2013</b>	<b>Ecosystems &amp; Biodiversity Major 90 units</b>	<b>Sem 2013</b>	<b>Marine Science Major 90 units</b>	<b>Sem 2013</b>	<b>Sustainability Major</b>	<b>Sem 2013</b>
<b>20 units from 1000 level Directed courses</b> <b>CHEM1010</b> Introductory Chemistry I <b>CHEM1020</b> Introductory Chemistry II <b>GEOS1040</b> Earth's Dynamic Systems <b>GEOS1050</b> Earth Processes and Products Students choose either CHEM1010 & CHEM1020 or GEOS1040 & GEOS1050	1 2 1 2	<b>20 units from 1000 level Directed courses</b> <b>BIOL1002</b> Organisms to Ecosystems (Not with BIOL1050) <b>BIOL1003</b> Professional Skills for Biological Sciences 1 <b>BIOL1040</b> Introduction to Biology I (Not with BIOL1001) <b>BIOL1050</b> Introduction to Biology II (Not with BIOL1002) <b>CHEM1010</b> Introductory Chemistry I <b>CHEM1020</b> Introductory Chemistry II <b>GEOS1040</b> Earth's Dynamic Systems	2 2 1 (CC) 2 (CC) 1 2 1	<b>20 units from 1000 level Directed courses</b> <b>BIOL1040</b> Introduction to Biology I (Not with BIOL1001) <b>BIOL1050</b> Introduction to Biology II (Not with BIOL1002)	1 (CC) 2 (CC)	<b>20 units from 1000 level Directed courses</b> <b>BIOL1040</b> Introduction to Biology I (Not with BIOL1001) <b>BIOL1050</b> Introduction to Biology II (Not with BIOL1002) <b>ENVS1004</b> Social Development & the Environment (Not with EMGT1020 or SRMT1020) <b>GEOG1020</b> Introduction to Human Geography	1 (CC) 2 (CC) 1 2
<b>30 units from 2000 level Directed courses</b> <b>CHEM2110</b> Analytical Chemistry <b>CHEM2610</b> Environmental Chemistry I <b>ENVS2009</b> Catchments & Water Supply <b>GEOS2050</b> River Basin Processes <b>GEOS2070</b> Climatology and Soils <b>GEOS2080</b> Earth Science Field Course	2 1 2 both 1 2 1	<b>30 units from 2000 level Directed courses</b> <b>BIOL2090</b> Microbial Biology <b>CHEM2110</b> Analytical Chemistry <b>CHEM2610</b> Environmental Chemistry I <b>ENVS2004</b> Ecology (Not with BIOL2070) <b>ENVS2005</b> Ecology & Management of Australian Flora (Not with EMGT2040) <b>ENVS2006</b> Ecology & Management of Australian Fauna (Not with EMGT2050 or SRMT2040) <b>ENVS2009</b> Catchments & Water Supply	2 2 1 2 both 2 both 1 both 2 both	<b>30 units from 2000 level Directed courses</b> <b>ENVS2004</b> Ecology (Not BIOL2070) <b>MARI2300</b> Marine Biology (Available Ourimbah only) <b>MARI2320</b> Marine Ecology (Available Ourimbah only)	2 both 1 (CC) 2 (CC)	<b>30 units from 2000 level Directed courses</b> <b>ENVS2004</b> Ecology (Not with BIOL2070) <b>ENVS2006</b> Ecology & Management of Australian Flora (Not with EMGT2050 or SRMT2040) <b>ENVS2008</b> The Sustainable Society (Not with EMGT2020 or SRMT1020) <b>GEOG2080</b> Cities and Regions <b>GEOG2130</b> Geographies of Development <b>SOCS2400</b> Applied Social Research <b>ENVS2009</b> Catchments & Water Supply	2 both 1 2 2 2 both
<b>40 units from 3000 level Directed courses</b> <b>CHEM3110</b> Instrumental Chemical Analysis <b>ENVS3007</b> Environmental Remediation (Not with EMGT3100) <b>ENVS3008</b> Project Management & Placement <b>ENVS3009</b> Catchment Management <b>ENVS3205</b> Climate Change and Resource Management <b>GEOS3250</b> Geographic Information Systems <b>GEOS3280</b> Global Change <b>ENVS3004</b> Ecotoxicology (Not with BIOL3350)	1 1 1/2 both X 2 1 1 1	<b>40 units from 3000 level Directed courses</b> <b>BIOL3100</b> Microbiology <b>CHEM3110</b> Instrumental Chemical Analysis <b>ENVS3003</b> Conservation Biology (Not with EMGT3030) <b>ENVS3004</b> Ecotoxicology (Not with BIOL3350) <b>ENVS3005</b> Animal Behaviour <b>ENVS3008</b> Project Management & Placement (Not with EMGT3130) <b>ENVS3009</b> Catchment Management <b>SRMT3060</b> Restoration Ecology <b>MARI3320</b> Ecological Methodology	1 1 1 both 1 1 1/2 both X 2(CC) 1(CC)	<b>40 units from 3000 level Directed courses</b> <b>ENVS3008</b> Project Management & Placement (Not with EMGT3130) <b>MARI3300</b> Estuarine Ecology (Available Ourimbah only) <b>MARI3320</b> Ecological Methodology (Available Ourimbah only) <b>MARI3330</b> Marine Fish & Fisheries (Available Ourimbah only) <b>MARI3400</b> Marine Science Project (Available Ourimbah only) <b>MARI3410</b> Coral Reef Biology & Ecology (Available Ourimbah only)	1/2 both 2 (CC) 1 (CC) 1 (CC) 2 (CC) 2 (CC)	<b>40 units from 3000 level Directed courses</b> <b>ENVS3003</b> Conservation Biology (Not with EMGT3030) <b>ENVS3006</b> Advanced Studies in Sustainability (Not with EMGT3070) <b>ENVS3008</b> Project Management & Placement (Not with EMGT3130) <b>ENVS3205</b> Climate Change and Resource Management <b>GEOG3090</b> Society and Space <b>GEOG3240</b> Globalisation: Cities, Economies <b>MARI3320</b> Ecological Methodology (Available Ourimbah only) <b>SRMT3040</b> Community Resource Management (Available Ourimbah only) <b>SRMT3050</b> Sustainable Land Management (Available Ourimbah only) <b>SRMT3060</b> Restoration Ecology (Available Ourimbah only)	1 both 1 1/2 both 2 1 2 1 (CC) 2 (CC) 1 (CC) 2 (CC)

CC = Central Coast; Both = Offered both Callaghan and Central Coast; X = not offered 2014