

**PROGRAM ENROLMENT CHECKLIST (PEC)**  
*Are you on track?*

**BACHELOR OF ENVIRONMENTAL SCIENCE and MANAGEMENT**  
**Students who commenced 2008-2010 Program**

Program Code: 11587

CRICOS Code: 059877D

| 1000 Level  | 2000 Level  | 3000 Level  | To Complete the Program   |
|---|---|---|---|
| <p><b>APPROVED Courses made up of</b></p> <p><b>60 Units of CORE Courses</b></p> <p>BIOL1002 (10 units)<br/>EMGT1020 (10 units)<br/>(Not to count with ENVS1004)<br/>ENVS1020 (10 units)<br/>(Not to count with ENVS1003)<br/>ENVS1060 (10 units)<br/>(Not to count with ENVS1001)<br/>GEOS1040 (10 units)<br/>STAT1070 (10 units)</p> <p align="center"><i>plus</i></p> <p><b>A 10 Unit COMPULSORY Course</b><br/>from the major you have chosen to do:</p> <p>Living Systems BIOL 1003<br/>Physical Systems GEOS 1050<br/>Social Systems GEOG 1020<br/>_____ (10 units)</p> <p><b>ELECTIVE Courses</b><br/>_____<br/>_____<br/>_____ (10 units)</p> | <p><b>APPROVED Courses made up of</b></p> <p><b>40 Units of CORE Courses</b></p> <p>BIOL2070 (10 units)<br/>(Not to count with ENVS2004)<br/>ENVS2010 (10 units)<br/>(Not to count with ENVS2002)<br/>ENVS2040 (10 units)<br/>(Not to count with ENVS2001)<br/>GEOS2161 (10 units)</p> <p align="center"><i>plus</i></p> <p><b>DIRECTED Courses in your Major:</b><br/>30 units of Living Systems courses<br/>or<br/>20 units of Physical Systems courses<br/>or<br/>30 units of Social Systems courses</p> <p>_____<br/>_____<br/>_____ (10 units)<br/>_____<br/>_____<br/>_____ (10 units)<br/>_____<br/>_____<br/>_____ (10 units)</p> <p><b>ELECTIVE Courses</b><br/>_____<br/>_____<br/>_____ (10 units)</p> | <p><b>APPROVED Courses made up of</b></p> <p><b>20 Units of CORE Course</b></p> <p>EMGT3110 (10 units)<br/>(Not to count with ENVS3001)<br/>ENVS3020 (10 units)<br/>(Not to count with ENVS3002)</p> <p align="center"><i>plus</i></p> <p><b>40 Units of DIRECTED Courses in your Major:</b></p> <p>_____<br/>_____<br/>_____<br/>_____<br/>_____ (10 units)<br/>_____<br/>_____<br/>_____<br/>_____ (10 units)</p> <p><b>ELECTIVE Courses</b><br/>_____<br/>_____<br/>_____ (10 units)</p> | <p><b>Total of 240 Units:</b></p> <p>60 units of CORE courses at 1000 level <input type="checkbox"/></p> <p>40 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 unit COMPULSORY Major course at 1000 level. <input type="checkbox"/></p> <p>20/30 units of DIRECTED Major courses at 2000 level. <input type="checkbox"/></p> <p>40 units of DIRECTED 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.<br/>(40 units for Living Systems and Social Systems Majors, or 50 units for Physical Systems Major) <input type="checkbox"/></p> |
| <p><b>Minimum to meet Core &amp; Directed requirements.</b><br/><b>Maximum of 100 Units</b></p>   | <p><b>No minimum or maximum other than Core &amp; Directed requirements.</b></p>  | <p><b>Minimum 60 units.</b><br/><b>No maximum number of units.</b></p>  | <p><b>It is a student's responsibility to check that they are correctly enrolled.</b></p>   |

**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/10587.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.



**YOUR PROGRAM**

**BACHELOR OF ENVIRONMENTAL SCIENCE and MANAGEMENT**  
**Students who commenced 2008-2010 Program**

| Living Systems Major   | Physical Systems Major  | Social Systems Major  |
|--|---|---|
| <b>Complete the following Compulsory course</b><br><b>BIOL1003</b> Professional Skills in Biological Sciences 1  | <b>Complete the following Compulsory course</b><br><b>GEOS1050</b> Earth Processes and Products   | <b>Complete the following Compulsory course</b><br><b>GEOG1020</b> Introduction to Human Geography  |
| <b>Complete the following Compulsory course</b><br><b>BIOL2070</b> Ecology   | <b>Complete the following Compulsory courses</b><br><b>GEOS2080</b> Earth Science Field Course<br><b>GEOS2161</b> GIS and Remote Sensing  | <b>Complete the following Compulsory course</b><br><b>BIOL2070</b> Ecology  |
| <b>Choose 30 units from 2000 level Directed courses (min.)</b><br><b>BIOL2001</b> Molecular Laboratory Skills for Biological Sciences<br><b>BIOL2002</b> Laboratory Skills in Biological Systems<br><b>BIOL2010</b> Biochemistry<br><b>BIOL2020</b> Animal Physiology and Development<br><b>BIOL2050</b> Molecular Genetics<br><b>BIOL2090</b> Microbial Biology<br><b>BIOL2220</b> Plant Cell Development<br><b>CHEM2110</b> Analytical Chemistry<br><b>CHEM2610</b> Environmental Chemistry I<br><b>EMGT2040</b> Ecology and Management of Australian Flora<br>(Not with ENV52005)<br><b>EMGT2050</b> Australian Fauna (Not with ENV52006)<br><b>MARI2300</b> Marine Biology (Ourimbah only)<br><b>MARI2320</b> Marine Ecology (Ourimbah only)<br><b>MARI2330</b> Marine and Coastal Floral Ecology (Ourimbah only)<br><b>SRMT2040</b> Sustainable Resource Management: Biodiversity<br>(Ourimbah only) (Not with ENV52006)          | <b>Choose 20 units from 2000 level Directed courses (min.)</b><br><b>CHEM2110</b> Analytical Chemistry<br><b>CHEM2610</b> Environmental Chemistry I<br><b>GEOS2050</b> River Basin Processes<br><b>GEOS2070</b> Climatology and Soils<br><b>GEOS2170</b> Optical Mineralogy and Igneous Petrology<br><b>GEOS2190</b> Structural and Field Geology<br><b>GEOS2200</b> Earth's Sedimentary Rocks and Environments<br><b>SRMT2020</b> Sustainable Resource Management: Land Systems<br>(Ourimbah only)<br><b>SRMT2030</b> Sustainable Resource Management: Water<br>(Ourimbah only)  | <b>Choose 30 units from 2000 level Directed courses (min.)</b><br><b>EMGT2020</b> The Sustainable Society (Not with ENV52008)<br><b>GEOG2080</b> Cities and Regions<br><b>GEOG2130</b> Geographies of Development<br><b>SOCS2400</b> Applied Social Research  |
| <b>Choose 40 units from 3000 level Directed courses (min.)</b><br><b>BIOL3020</b> Reproductive Physiology and Development<br><b>BIOL3100</b> Microbiology<br><b>BIOL3330</b> Plant Development and Physiology<br><b>ENVS3004</b> Ecotoxicology (Not with BIOL3350)<br><b>ENVS3005</b> Animal Behaviour<br><b>CHEM3110</b> Instrumental Chemical Analysis<br><b>CHEM3610</b> Environmental Chemistry II<br><b>EMGT3030</b> Conservation Biology (Not with ENV53003)<br><b>EMGT3100</b> Environmental Remediation (Not with ENV53007)<br><b>GEOS3250</b> Geographic Information Systems<br><b>MARI3300</b> Estuarine Ecology (Ourimbah only)<br><b>MARI3320</b> Ecological Methodology Ourimbah only)<br><b>MARI3330</b> Marine Fish & Fisheries (Ourimbah only)<br><b>MARI3400</b> Marine Science Project(Ourimbah only)<br><b>SRMT3050</b> Sustainable Land Mngt (Ourimbah only)<br><b>SRMT3060</b> Restoration Ecology(Ourimbah only) | <b>Choose 40 units from 3000 level Directed courses (min.)</b><br><b>CHEM3110</b> Instrumental Chemical Analysis<br><b>CHEM3610</b> Environmental Chemistry II<br><b>EMGT3100</b> Environmental Remediation (Not with ENV53007)<br><b>ENVS3205</b> Climate Change and Resource Management<br><b>GEOS3110</b> Igneous Petrology & Crustal Evolution<br><b>GEOS3150</b> Basin Analysis<br><b>GEOS3160</b> Geology of Fuels<br><b>GEOS3220</b> Coastal Dynamics, Evolution and Protection<br><b>GEOS3221</b> Environmental Geology<br><b>GEOS3250</b> Geographic Information Systems<br><b>GEOS3260</b> Field Course in Carbonate Environments<br><b>GEOS3280</b> Global Change<br><b>GEOS3320</b> Advanced Field Course in Earth Sciences<br>(Not with GEOS3010)<br><b>GEOS3330</b> Metamorphic and Field Geology | <b>Choose 40 units from 3000 level Directed courses (min.)</b><br><b>ECON3320</b> Environmental Economics<br><b>EMGT3070</b> Advanced Studies in Sustainability<br>(Not with ENV53006)<br><b>GEOG3090</b> Society and Space<br><b>GEOG3240</b> Globalisation: Cities, Economies<br><b>GEOG3300</b> Rethinking Development<br><b>PHIL3910</b> Technology and Human Values<br><b>SOCA3060</b> Environment and Society<br><b>SOCS3100</b> Policy Development , Program Management and<br>Evaluation<br><b>SRMT3020</b> Planning for Sustainability (Ourimbah only)<br>(Not with ENV53001)<br><b>SRMT3040</b> Community Resource Management<br>(Ourimbah only)<br><b>TOUR3000</b> Leisure Tourism and Environmental Issues<br>(Not with LEIS3130) |