

**PROGRAM ENROLMENT CHECKLIST**

# Bachelor of Environmental Science and Management

## SINGLE MAJOR: *Earth Systems Major*

*For students who commenced in this program in 2011 and 2012*

YEAR 1	<b>ENVS1001</b> Environmental Science Concepts and Methods (10 units)  <b>CORE</b>	<b>BIOL1002</b> Organisms to Ecosystems (10 units) <i>Not to count with BIOL1040 or BIOL1050</i>  <i>Callaghan</i> <b>OR</b> <b>BIOL1050</b> Introduction to Biology II (10 units) <i>Not to count with BIOL1001, BIOL1002 and/or BIOL1003</i>  <i>Ourimbah</i> <b>CORE</b>	<b>ENVS1003</b> Environmental Values and Ethics (10 units)  <b>CORE</b>	<b>STAT1070</b> 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> <b>CORE</b>	<b>1000 level directed course</b> (10 units)  <b>MATH1001</b> <i>(Semester 1 at Ourimbah and Callaghan)</i> <b>OR</b> <b>MATH1110</b> <i>(Semester 1 and 2 at Callaghan)</i> <b>OR</b> <b>PHYS1150</b> <i>Not to count with PHYS1200, PHYS1205 and/or PHYS1210 (Semester 2 at Ourimbah)</i> <b>DIRECTED</b>	<b>1000 level major course</b> (10 units)  <b>GEOS1040</b> <i>(Semester 1 at Callaghan)</i> <b>OR</b> <b>CHEM1010</b> <i>(Semester 1 at Callaghan)</i>  <i>You must complete BOTH GEOS1040 and GEOS1050 OR CHEM1010 and CHEM1020. You cannot complete one GEOS course and one CHEM course.</i> <b>MAJOR</b>	<b>1000 level major course</b> (10 units)  <b>GEOS1050</b> <i>(Semester 2 at Callaghan)</i> <b>OR</b> <b>CHEM1020</b> <i>(Semester 2 at Callaghan)</i>  <i>You must complete BOTH GEOS1040 and GEOS1050 OR CHEM1010 and CHEM1020. You cannot complete one GEOS course and one CHEM course.</i> <b>MAJOR</b>	<b>Elective</b> (10 units)  <b>ELECTIVE</b>
YEAR 2	<b>ENVS2002</b> Environmental Legislation and Planning (10 units)  <b>CORE</b>	<b>ENVS2001</b> Environmental Concepts: Energy (10 units)  <i>Students who completed ENVS2040 in 2011 or earlier do not need to complete ENVS2001</i> <b>CORE</b>	<b>GEOS2161</b> GIS and Remote Sensing (10 units)  <b>CORE</b>	<b>2000 level major course</b> (10 units)  <b>MAJOR</b>	<b>2000 level major course</b> (10 units)  <b>MAJOR</b>	<b>2000 level major course</b> (10 units)  <b>MAJOR</b>	<b>Elective</b> (10 units)  <b>ELECTIVE</b>	<b>Elective</b> (10 units)  <b>CORE</b>
YEAR 3	<b>ENVS3001</b> Integrated Impact Assessment (10 units)  <b>CORE</b>	<b>ENVS3002</b> Applied Environmental Assessment (10 units)  <b>CORE</b>	<b>3000 level major course</b> (10 units)  <b>MAJOR</b>	<b>3000 level major course</b> (10 units)  <b>MAJOR</b>	<b>3000 level major course</b> (10 units)  <b>MAJOR</b>	<b>3000 level major course</b> (10 units)  <b>MAJOR</b>	<b>Elective</b> (10 units)  <b>ELECTIVE</b>	<b>Elective</b> (10 units)  <b>ELECTIVE</b>

**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"/>
One 90 unit Major, including:	
▪ 20 units at 1000 Level	<input type="checkbox"/>
▪ 30 units at 2000 Level	<input type="checkbox"/>
▪ 40 units at 3000 Level	<input type="checkbox"/>
50 units of Electives	<input type="checkbox"/>

- It is a student's responsibility to ensure that they are correctly enrolled.
- To ensure that you have the most current information, this PEC should be read in conjunction with the Program Handbook:  
<http://www.newcastle.edu.au/program/11394.html>
- 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.
- An Elective course can be any unrestricted offering at the University, including any additional courses from those listed in the Bachelor of Environmental Science and Management's Program Handbook. When choosing your Elective courses, please ensure that you do not exceed 100 units of 1000 level courses

**SUGGESTED ENROLMENT SEQUENCE**

The following is a suggested enrolment sequence. You do not have to follow this sequence. However, you may find it useful as a guide to map your enrolment.

	Semester One				Semester Two			
Year 1	ENVS1001	MATH1001 <i>OR</i> MATH1110	1000 level major course  GEOS1040 <i>OR</i> CHEM1010	1000 level Elective	ENVS1003	BIOL1002 <i>OR</i> BIOL1050	STAT1070	1000 level major course  GEOS1050 <i>OR</i> CHEM1020
Year 2	ENVS2002	2000 level major course	2000 level major course	1000/2000/3000 level Elective	ENVS2001	GEOS2161	2000 level major course	1000/2000/3000 level Elective
Year 3	ENVS3001	3000 level major course	3000 level major course	2000/3000 level Elective	ENVS3002	3000 level major course	3000 level major course	2000/3000 level Elective



**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>Earth Systems Major 90 units</b>	<b>Sem</b>
<b>20 units from 1000 level Directed courses</b>	
CHEM1010 Introductory Chemistry I	1
CHEM1020 Introductory Chemistry II	2
GEOS1040 Earth's Dynamic Systems	1
GEOS1050 Earth Processes and Products	2
Students choose either CHEM1010 & CHEM1020 or GEOS1040 & GEOS1050	
<b>30 units from 2000 level Directed courses</b>	
CHEM2110 Analytical Chemistry	2
CHEM2610 Environmental Chemistry I	1
ENVS2009 Catchments & Water Supply	
GEOS2050 River Basin Processes	
GEOS2070 Climatology and Soils	2
GEOS2080 Earth Science Field Course	1
	1
<b>40 units from 3000 level Directed courses</b>	
CHEM3110 Instrumental Chemical Analysis	1
ENVS3007 Environmental Remediation (Not with EMGT3100)	1
ENVS3008 Project Management & Placement	
ENVS3009 Catchment Management	
ENVS3205 Climate Change and Resource Management	2
GEOS3250 Geographic Information Systems	1
GEOS3280 Global Change	1
ENVS3004 Ecotoxicology (Not with BIOL3350)	1

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