Bachelor of Environmental Science and Management

Commencing in Semester 1, 2019  Studying at Callaghan or Central Coast

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek prior advice from your Program Advisor to ensure you remain on track.

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<th>Semester 1</th>
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<tr>
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<td>ENVS1001</td>
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<td>SCIE1002</td>
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<td>MAJOR</td>
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<td>STAT1070</td>
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<td>BIOL1002</td>
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<th>Year 3</th>
<th>Semester 2</th>
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<tr>
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<td>PHYS2300</td>
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<td>GEOS2161</td>
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<td>MAJOR</td>
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|        | ENVS3002   | Environmental Management Perspectives |
|        | MAJOR      | MAJOR |
|        | ELECTIVE   | 2000 or 3000 level |

Program Plan Key:  

- = Core  
- = Major  
- = Directed  
- = Elective

Information correct as of September 2019 and subject to change.
To be eligible to graduate make sure you have completed 240 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core Courses – 100 units.
- Major – 80 units or 90 units (depending on the Major chosen).
- Directed courses – 10 units.
- Electives – A minimum of 40 units. Visit the Course Handbook to see a list of available Electives.
- Students can only take 1 major in this program.
- Students must not exceed 100 units at 1000 level.
- Students must take a minimum of 60 units at 3000 level.
- The duration of this program is 3 years full time study (40 units per semester) or part time equivalent.
- The maximum time to complete this program is 8 years.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook.

The Program Handbook has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your Program Advisor.
Bachelor of Environmental Science & Management Majors

A Major is an area of study that you wish to focus on in your program. A course will count towards your Major if it is listed as a Compulsory or Directed course under the relevant Major. You must complete at least 80 units in your Major.

### Majors

| Courses (Compulsory Courses listed in ORANGE) | Majors
| --- | --- |
| **Earth Systems Major**  
(90 unit major) | **Compulsory Courses**  
CHEM1010 Introductory Chemistry I AND  
CHEM1020 Introductory Chemistry II  
OR  
GEOS1040 Earth’s Dynamic Systems AND  
GEOS1050 Earth’s Processes and Products  
**Directed Courses**  
Choose 30 units from the following 2000 level Directed Courses:  
CHEM2110 Analytical Chemistry  
CHEM2610 Environmental Chemistry I  
ENVS2009 Catchment and Water Resource Management  
GEOS2050 River Basin Processes  
GEOS2060 Soil Properties and Processes  
GEOS2080 Earth Science Field Course  
GEOS2200 Earth’s Sedimentary Rocks & Environments  
Choose 40 units from the following 3000 level Directed Courses:  
CHEM3110 Instrumental Chemical Analysis  
ECON3006 Environmental Economics  
ENVS3004 Ecotoxicology  
ENVS3007 Environmental Remediation  
ENVS3008 Organisational Placement in the Environmental Sector  
ENVS3009 Advanced Water Science and Resource Management  
ENVS3400 Advanced Research Project  
GEOS3220 Coastal Environments and Processes  
GEOS3250 Advanced Spatial Science  
GEOS3340 Climate Change and Resource Management | **Directed Courses**  
Choose 10 units from the following 1000 level Directed Courses:  
BIOL1001 Molecules, Cells and Organisms  
CHEM1010 Introductory Chemistry I  
CHEM1020 Introductory Chemistry II  
GEOS1040 Earth’s Dynamic Systems  
Choose 30 units from the following 2000 level Directed Courses:  
CHEM2110 Analytical Chemistry  
CHEM2610 Environmental Chemistry I  
ENVS2009 Catchment and Water Resource Management  
Choose 40 units form the following 3000 level Directed Courses:  
BIOL3100 Microbiology  
CHEM3110 Instrumental Chemical Analysis  
ECON3006 Environmental Economics  
ENVS3003 Conservation Biology  
ENVS3004 Ecotoxicology  
ENVS3005 Animal Behaviour  
ENVS3008 Organisational Placement in the Environmental Sector  
ENVS3400 Advanced Research Project  
MAR3320 Ecological Methodology  
SRMT3060 Restoration Ecology |
| **Ecosystems and Biodiversity Major**  
(Eco. & Bio.)  
(80 unit major) |  

Information correct as of September 2019 and subject to change.
Marine Science Major
(90 unit major)

**Compulsory Courses**
- **BIOL1001** Molecules, Cells and Organisms***
- **MARI1000** Our Oceans
- **ENVS2004** Ecology
- **MARI2300** Marine Biology
- **MARI2500** Coastal & Marine Ecosystems Services +

***BIOL1001 replaces BIOL1040. If you have successfully completed BIOL1040 you do not need to complete BIOL1001.

+ MARI2500 replaces MARI2320 if you have successfully completed MARI2320 you do not need to complete MARI2500

**Directed Courses**
Choose 40 units from the following 3000 level Directed Courses:
- **ECON3006** Environmental Economics
- **ENVS3005** Animal Behaviour
- **ENVS3008** Organisational Placement in the Environment Sector
- **ENVS3009** Advanced Water Science and Resource Management
- **ENVS3400** Advanced Research Project
- **MARI3300** Integrated Coastal Ecosystems
- **MARI3320** Ecological Methodology
- **MARI3330** Marine Fisheries Biology and Management — no longer offered
- **MARI3410** Coral Reef Biology, Ecology and Sustainability

Sustainability Major
(80 unit major)

**Directed Courses**
Choose 10 units from the following 1000 level Directed Courses:
- **BIOL1001** Molecules, Cells and Organisms
- **ENVS1004** Social Development & the Environment
- **GEOG1020** Introduction to Human Geography

Choose 30 units from the following 2000 level Directed Courses:
- **ENVS2004** Ecology
- **ENVS2005** Management of Australian Flora
- **ENVS2006** Ecology and Management of Wildlife
- **ENVS2008** The Sustainable Society
- **ENVS2009** Catchment and Water Resource Management
- **GEOG2080** Cities and Regions
- **GEOG2130** Geographies of Development
- **SOCS2400** Applied Social Research

Choose 40 units from the following 3000 level Directed Courses:
- **ECON3006** Environmental Economics
- **ENVS3003** Conservation Biology
- **ENVS3006** Sustainability: Theory and Practice
- **ENVS3008** Organisational Placement in the Environment Sector
- **ENVS3009** Advanced Water Science and Resource Management
- **ENVS3400** Advanced Research Project
- **GEOG3090** Society and Space
- **GEOG3240** Globalisation: Cities, Economies
- **GEOS3340** Climate Change and Resource Management
- **MARI3320** Ecological Methodology
- **SRMT3040** Community Resource Management
- **SRMT3050** Sustainable Land Management
- **SRMT3060** Restoration Ecology
### Helpful Hints & Tips

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<th>UNDERSTANDING COURSES &amp; PROGRAMS</th>
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<th>CONSIDERING A BREAK?</th>
<th>MORE QUESTIONS?</th>
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<td>Need help? ➜ Ask UON ➜</td>
<td>First year undergraduate students usually only enrol in 1000 level courses ➜</td>
<td>Not sure what courses to study? ➜</td>
<td>Check you have met the assumed knowledge and requisites for courses before enrolling ➜</td>
<td>Need to take a break? This is called a 'leave of absence'. Check if you are eligible ➜</td>
<td>We are here to answer questions about your program. Talk to us your way!</td>
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<tr>
<td>How do I use the Web Timetable? ➜</td>
<td>New Postgraduate students should only enrol in 6000 level courses ➜</td>
<td>Understanding program and course jargon ➜</td>
<td>Have you studied elsewhere or transferred programs? Don't forget to apply for credit ➜</td>
<td>Planning on going overseas? Keep electives free, so it's easier for you to receive credit for your overseas studies ➜</td>
<td>Ask UON 1300 ASK UON Visit a Student Hub Message us on Facebook or Twitter UONline via myUON</td>
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<td><strong>RULES</strong></td>
<td>Find out all you need to know about getting started at uni ➜</td>
<td>Understanding UON Jargon ➜</td>
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<td><strong>Information correct as of January 2018 and subject to change.</strong>  Program Code: 12362  CRICOS Code: 039305F  CRICOS Provider: 00109J</td>
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