

PROGRAM PLAN

BACHELOR OF ENVIRONMENTAL SCIENCE AND MANAGEMENT

PROGRAM OPTION:
Standard

START DATE:
Semester 1, 2020

LOCATION:
Callaghan and 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 advice from your Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)
 [COURSE HANDBOOK](#)

NAME:

STUDENT NO.:

COURSE STATUS KEY

C = Completed

En = Enrolled

NS = Not Started

YEAR 1	SEMESTER 1	ENVS1001 Environmental Science Concepts and Methods CORE	SCIE1002 Multidisciplinary Laboratories CORE	PROGRAM MATH DIRECTED* MATH1001 or MATH1002 or MATH1110 DIRECTED	MAJOR MAJOR	SEMESTER 2	ENVS1002 Physical and Chemical Environmental Systems CORE	ENVS1003 Environmental Values and Ethics CORE	PROGRAM STAT DIRECTED STAT1070 or STAT1020 DIRECTED	BIOL1002 Organisms to Ecosystems CORE
	SEMESTER 1	ENVS2002 Environmental Legislation and Planning CORE	MAJOR MAJOR	MAJOR MAJOR	ELECTIVE** 1000, 2000 or 3000 level ELECTIVE	SEMESTER 2	GEOS2161 Spatial Science CORE	MAJOR MAJOR	ELECTIVE** 1000, 2000 or 3000 level ELECTIVE	ELECTIVE** 2000 or 3000 level ELECTIVE
YEAR 3	SEMESTER 1	ENVS3001 Integrated Impact Assessment CORE	PROGRAM DIRECTED^ 3000 level ENVS3008^ or GEOS3250 DIRECTED	MAJOR MAJOR	MAJOR MAJOR	SEMESTER 2	ENVS3002 Environmental Management Perspectives CORE	MAJOR MAJOR	MAJOR MAJOR	ELECTIVE** 2000 or 3000 level ELECTIVE

^ Students undertaking the Natural Resources and Hazards Major must complete ENVS3008 as their 3000 level Program Directed course.

* Students choose their MATH Directed course based on previous mathematical background. See the [Enrolling in mathematics](#) – Maths Placement Test information.

**Elective Options include: Environmental Science and Management Elective Pathways or any unrestricted courses offered within the university.

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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 – 90 units.
- Directed courses – 30 units (10 units of STAT, 10 units of MATH* and 10 units Program Directed^ at 3000 level)
- Major courses – 80 units, visit the [Program Handbook](#) for more information.
- Elective courses – 40 units, Electives can be chosen from Environmental Science and Management Elective Pathways or any unrestricted courses offered within the university. Refer to the Environmental Science and Management Elective Pathway Documents located on the [Program Handbook](#) or visit the [Course Handbook](#) to see a list of available Electives.
- Students must not exceed 100 units at 1000 level in this program.
- Students must take a minimum of 60 units at the 3000 level.
- The duration of this program is 3 year full-time (40 units per semester) or part-time equivalent.
- The maximum time to complete this program is 8 years.

^ Students undertaking the Natural Resources and Hazards Major must complete ENVS3008 as their 3000 level Program Directed course.

* Students choose their MATH Directed course based on previous mathematical background. See the [Enrolling in mathematics](#) – Maths Placement Test information.



Some courses have assumed knowledge and/or requisites please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Academic Program Advisor](#).

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PROGRAM DIRECTED COURSES

MATHEMATICS DIRECTED COURSES

Complete 10 units from:

- MATH1001** Preparatory Studies in Mathematics
- MATH1002** Foundational Studies in Mathematics
- MATH1110** Mathematics for Engineering, Science and Technology 1

MATH1120 and MATH1210 no longer offered. If you have already completed MATH1120 or MATH1210 the course will still count as your Mathematics Directed course.

STATISTICS DIRECTED COURSES

Complete 10 units from:

- STAT1020** Statistical Reasoning and Literacy
- STAT1070** Statistics for the Sciences

3000 LEVEL DIRECTED COURSES

Complete 10 units from:

- ***ENVS3008** Organisational Placement in the Environmental Sector
- GEOS3250** Advanced Spatial Science

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NATURAL RESOURCES AND HAZARDS MAJOR

COMPULSORY COURSES

GEOS1040: Earth: The Dynamic Planet
GEOS2050: Catchments and Climate
GEOS2060: Soil Properties and Processes
GEOS3250: Advanced Spatial Science
GEOS3340: Climate Change and Resource Management

DIRECTED COURSES – 2000 LEVEL

Complete 10 units from:

ENVS2009: Catchment and Water Resource Management
GEOS2080: Earth Science Field Course

DIRECTED COURSES – 3000 LEVEL

Complete 20 units from:

ECON3006: Environmental Economics
ENVS3007: Environmental Remediation
ENVS3009: Advanced Water Science and Resource Management
ENVS3010: Extended Organisational Placement in the Environmental Sector
GEOS3220: Coastal Environments and Processes
GEOS3280: Global Change and the Rise of Modern Environments
SCIE3500: Research Integrated Learning

ENVS3400 no longer offered. If you have already completed ENVS3400 it will still count towards your major.

ECOSYSTEMS AND BIODIVERSITY MAJOR

DIRECTED COURSES – 1000 LEVEL

Complete 10 units from:

BIOL1001: Molecules, Cells and Organisms
CHEM1010: Introductory Chemistry I
CHEM1020: Introductory Chemistry II
GEOS1040: Earth: The Dynamic Planet

DIRECTED COURSES – 2000 LEVEL

Complete 30 units from:

BIOL2090: Microbial Biology
ENVS2004: Ecology
ENVS2005: Management of Australian Flora
ENVS2006: Wildlife Management
ENVS2009: Catchment and Water Resource Management

DIRECTED COURSES – 3000 LEVEL

Complete 40 units from:

ECON3006: Environmental Economics
ENVS3003: Conservation Biology
ENVS3004: Ecotoxicology
ENVS3005: Animal Behaviour
ENVS3009: Advanced Water Science and Resource Management
ENVS3010: Extended Organisational Placement in the Environmental Sector
MARI3320: Ecological Methodology
SCIE3500: Research Integrated Learning
SRMT3060: Restoration Ecology

ENVS3400 no longer offered. If you have already completed ENVS3400 it will still count towards your major.

SUSTAINABILITY MAJOR

DIRECTED COURSES – 1000 LEVEL

Complete 10 units from:

BIOL1001: Molecules, Cells and Organisms
ENVS1004: Social Development and the Environment
GEOG1020: Introduction to Human Geography

DIRECTED COURSES – 2000 LEVEL

Complete 30 units from:

ENVS2004: Ecology
ENVS2005: Management of Australian Flora
ENVS2006: Wildlife Management
ENVS2008: The Sustainable Society
ENVS2009: Catchment and Water Resource Management
GEOG2080: Cities and Regions
GEOG2130: Geographies of Development
SOCS2400: Applied Social Research

DIRECTED COURSES – 3000 LEVEL

Complete 40 units from:

ECON3006: Environmental Economics
ENVS3003: Conservation Biology
ENVS3006: Surviving the Anthropocene
ENVS3009: Advanced Water Science and Resource Management
ENVS3010: Extended Organisational Placement in the Environmental Sector
GEOG3090: Society and Space
GEOS3340: Climate Change and Resource Management
MARI3320: Ecological Methodology
SCIE3500: Research Integrated Learning
SRMT3050: Sustainable Land Management (not currently offered)
SRMT3060: Restoration Ecology

ENVS3400, GEOG3240 and SRMT3040 no longer offered. If you have already completed ENVS3400, GEOG3240 or SRMT3040 the course will still count towards your major.

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COASTAL AND MARINE SCIENCE MAJOR

COMPULSORY COURSES

MARI1000: Our Oceans
ENVS2004: Ecology
MARI2300: Marine Biology
MARI2500: Coastal and Marine Ecosystem Services
MARI3300: Integrated Coastal Ecosystems
MARI3320: Experimental Design and Analysis in Ecology

DIRECTED COURSES – 3000 LEVEL

Complete 20 units from:

ECON3006: Environmental Economics
ENVS3005: Animal Behaviour
ENVS3009: Advanced Water Science and Resource Management
ENVS3010: Extended Organisational Placement in the Environmental Sector
MARI3410: Coral Reef Biology, Ecology and Sustainability
SCIE3500: Research Integrated Learning

ENVS3400 no longer offered. If you have already completed ENVS3400 it will still count towards your major.