

BIOS 3012 CONSERVATION BIOLOGY

Credit Points 10

Legacy Code 300855

Coordinator Adrian Renshaw ([https://directory.westernsydney.edu.au/search/name/Adrian Renshaw/](https://directory.westernsydney.edu.au/search/name/Adrian%20Renshaw/))

Description Most species disappearances have occurred in major extinction events spread over geological time. Are we in the midst of and the cause of another mass extinction event? This unit will explore this idea by examining the processes that have led to, and are leading to species extinction and the current biodiversity crisis. Many of the methods and issues used in and associated with conservation will be covered in a variety of case studies, field and laboratory activities.

School Science

Discipline Biological Sciences, Not Elsewhere Classified.

Student Contribution Band HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 3 subject

Pre-requisite(s) BIOS 1001 AND BIOS 2005 OR BIOS 2006 OR BIOS 2032 OR BIOS 2018 OR BIOS 2008

Equivalent Subjects LGYA 6073 - Environmental Biology LGYA 6182 - Conservation Biology

Restrictions Successful completion of 40 credit points at Level 2 and 20 credit points at Level 3. Students are required to wear a lab coat and enclosed footwear.

Learning Outcomes

On successful completion of this subject, students should be able to:

1. List, explain and provide specific examples for the reasons for conservation and sustainability including the role of indigenous knowledge to conservation.
2. Describe what is meant by the term Biodiversity and give detailed explanations and examples of the various levels of biodiversity and how biodiversity is measured.
3. Name and describe the major extinction events that have occurred in the past and describe and explain the major threats that the earth's biodiversity currently faces and how those threats are being managed.
4. Describe the hierarchical system of classification, the naming of living things and the current issues and trends involved in the naming and cataloguing of species.
5. Conduct laboratory, field work and research safely and ethically both individually and in teams and communicate the findings of such both orally and/or in written format effectively.
6. List the major international, national and state conservation authorities and major NGOs and agreements that Aust

Subject Content

Extinction
 Biodiversity
 Why conserve
 Species concepts, taxonomy and classification
 Factors contributing to biodiversity lost
 Conservation genetics
 Regulatory, economic, ethical and institutional frameworks for conservation
 Conservation management
 Case studies demonstrating and/or illustrating the above

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/ Group Task
Practical Portfolio	2,000 words total (practical exercises) and 2,000 words (report)	55	N	Individual
Presentation	8 minutes	20	N	Individual
Final Exam	2 hours	25	N	Individual

Prescribed Texts

- There is no textbook for this subject

Teaching Periods

Spring Hawkesbury

Day

Subject Contact Adrian Renshaw ([https://directory.westernsydney.edu.au/search/name/Adrian Renshaw/](https://directory.westernsydney.edu.au/search/name/Adrian%20Renshaw/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BIOS3012_22-SPR_HW_D#subjects)