

Unit Outline (Higher Education)

Institute / School: Institute of Innovation, Science & Sustainability

Unit Title: Wildlife and Ecosystem Conservation

Unit ID: SCENV3802

Credit Points: 15.00

Prerequisite(s): SCENV2200 or SCENV2500

Co-requisite(s): Nil

Exclusion(s): SCENV3800

ASCED: 050901

Description of the Unit:

The rapid and ongoing modification and degradation of natural ecosystems and species' habitats is a global issue. In order to appropriately conserve and manage ecosystems and the habitat of threatened species to ensure their persistence we must understand the underlying processes that drive modification and degradation. We must also understand how and where to allocate conservation and management resources to better protect Earth's ecosystems and threatened species. This unit explores in detail some of the current thinking and theoretical frameworks that underpin the conservation and management of natural ecosystems and threatened species both within Australia and Internationally. Topics investigated may include island biogeography, the SLOSS concept, landscape ecology, ecosystem resilience, policy and regulatory frameworks, threatened species management, human-wildlife conflict and indigenous land management.

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

No work experience: Student is not undertaking work experience in industry.

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above, has completed all major assessment tasks (including all sub-components where a task has multiple parts) as specified in the Unit Description and is not eligible for any other form of

supplementary assessment

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Learning Outcomes:

Students undertaking this unit are expected to be able to demonstrate the following knowledge and skills:

Knowledge:

- K1.** Evaluate the attributes of ecosystems and species focussing on the associated ecological theories that underpin their conservation and management.
- K2.** Describe key global issues that affect the conservation and management of ecosystems and species
- K3.** Discuss and debate contemporary approaches to conservation and management of ecosystems and species

Skills:

- S1.** Examine, critically evaluate and synthesise published material and other resources that consider ecological conservation and management.
- S2.** Determine appropriate actions and approaches to address the conservation and management of ecosystems and species
- S3.** Critically assess conservation plans and management actions, and apply problem solving.

Application of knowledge and skills:

- A1.** Apply ecological theory to conservation and management planning scenarios.
- A2.** Evaluate various issues which can affect successful conservation and management of ecosystems and species.
- A3.** Use knowledge of ecosystem function and threatened species biology to evaluate or develop conservation and management strategies.

Unit Content:

The unit explores the conservation and management of ecosystems and threatened species. Current thinking, theories and issues underpinning conservation and management strategies are considered, including island biogeography, landscape ecology, human-wildlife conflict, threatened species management, indigenous land management and ecosystem-scale conservation approaches.

Topics may include:

- Island biogeography theory and its applications to management
- Landscape ecology and fragmentation
- Ecosystem resilience
- Ecosystem-scale conservation in action.
- Threatened species biology and management
- Human-wildlife conflict

- Comprehensive, adequate and representative conservation management.
- Indigenous land management.

FEDTASKS

Federation University Federation recognises that students require key transferable employability skills to prepare them for their future workplace and society. FEDTASKS (**T**ransferable **A**tttributes **S**kills and **K**nowledge) provide a targeted focus on five key transferable Attributes, Skills, and Knowledge that are embedded within curriculum, developed gradually towards successful measures and interlinked with cross-discipline and Co-operative Learning opportunities. *One or more FEDTASK, transferable Attributes, Skills or Knowledge must be evident in the specified learning outcomes and assessment for each FedUni Unit, and all must be directly assessed in each Course.*

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the Unit	
		Learning Outcomes (KSA)	Assessment task (AT#)
FEDTASK 1 Interpersonal	Students will demonstrate the ability to effectively communicate, inter-act and work with others both individually and in groups. Students will be required to display skills in-person and/or online in: <ul style="list-style-type: none"> • Using effective verbal and non-verbal communication • Listening for meaning and influencing via active listening • Showing empathy for others • Negotiating and demonstrating conflict resolution skills • Working respectfully in cross-cultural and diverse teams. 	K2, K3, A2	AT1, AT2, AT3
FEDTASK 2 Leadership	Students will demonstrate the ability to apply professional skills and behaviours in leading others. Students will be required to display skills in: <ul style="list-style-type: none"> • Creating a collegial environment • Showing self-awareness and the ability to self-reflect • Inspiring and convincing others • Making informed decisions • Displaying initiative 	S2, A1, A2, A3	AT1, AT2, AT3

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the Unit	
		Learning Outcomes (KSA)	Assessment task (AT#)
FEDTASK 3 Critical Thinking and Creativity	<p>Students will demonstrate an ability to work in complexity and ambiguity using the imagination to create new ideas. Students will be required to display skills in:</p> <ul style="list-style-type: none"> • Reflecting critically • Evaluating ideas, concepts and information • Considering alternative perspectives to refine ideas • Challenging conventional thinking to clarify concepts • Forming creative solutions in problem solving. 	K1, K2, K3, S1, S2, S3, A1, A2, A3	AT1, AT2, AT3
FEDTASK 4 Digital Literacy	<p>Students will demonstrate the ability to work fluently across a range of tools, platforms and applications to achieve a range of tasks. Students will be required to display skills in:</p> <ul style="list-style-type: none"> • Finding, evaluating, managing, curating, organising and sharing digital information • Collating, managing, accessing and using digital data securely • Receiving and responding to messages in a range of digital media • Contributing actively to digital teams and working groups • Participating in and benefiting from digital learning opportunities. 	A3	AT3
FEDTASK 5 Sustainable and Ethical Mindset	<p>Students will demonstrate the ability to consider and assess the consequences and impact of ideas and actions in enacting ethical and sustainable decisions. Students will be required to display skills in:</p> <ul style="list-style-type: none"> • Making informed judgments that consider the impact of devising solutions in global economic environmental and societal contexts • Committing to social responsibility as a professional and a citizen • Evaluating ethical, socially responsible and/or sustainable challenges and generating and articulating responses • Embracing lifelong, life-wide and life-deep learning to be open to diverse others • Implementing required actions to foster sustainability in their professional and personal life. 	K1, K2, K3, S1, S2, S3, A1, A2, A3	AT1, AT2, AT3

Learning Task and Assessment:

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S2, A1, A2	Appraisal of theoretical and practical aspects of the conservation and management of ecosystems and threatened species described in the published literature or other media.	Reflective writing piece	20-40%
K1, K2, K3, S1, S2, S3, A1, A2, A3	Authentic response to a conservation proposal or plan	Industry standard report	20-40%
K1, K2, S1, S2, A1, A2	Scientific communication project relating to threatened species conservation	Digital media scientific output	20-40%

Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)