



Course Outline (Higher Education)

School:	School of Science, Psychology and Sport
Course Title:	ECOSYSTEMS CONSERVATION AND MANAGEMENT
Course ID:	SCENV3800
Credit Points:	15.00
Prerequisite(s):	(SCENV2200 or SCENV2500)
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	019999

Description of the Course :

The rapid and ongoing modification and degradation of habitat and natural ecosystems is a global issue. In order to appropriately conserve and manage ecosystems to ensure their resilience to withstand further change we must understand their underlying patterns, processes and dynamics. The question of how and where to allocate conservation resources is complex and challenging. This course explores in detail some of the current thinking and theoretical frameworks that underpin ecosystem conservation and management, including island biogeography, the SLOSS concept, landscape ecology, indigenous land management and ecosystem resilience.

Grade Scheme: Graded (HD, D, C, etc.)

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 course but gained a final mark of 45 per cent or above and submitted all major assessment tasks.

Program Level:

Level of course in Program	AQF Level of Program					
	5	6	7	8	9	10
Introductory	<input type="checkbox"/>					
Intermediate	<input type="checkbox"/>					

Level of course in Program	AQF Level of Program					
	5	6	7	8	9	10
Advanced	■	■	✓	■	■	■

Learning Outcomes:

Students undertaking this course are expected to be able to demonstrate the following knowledge and skills.

Knowledge:

- K1.** Evaluate the nature of ecosystems and the associated ecological theories that underpin their conservation and management.
- K2.** Appraise key global issues that affect ecosystem conservation and management.
- K3.** Express reasoned opinions regarding contemporary approaches to ecosystem conservation and management.

Skills:

- S1.** Examine, critically evaluate and synthesise published and other information that considers ecosystem conservation and management.
- S2.** Determine appropriate actions and approaches to address ecosystem conservation and management.
- S3.** Develop skills in critically assessing conservation plans.

Application of knowledge and skills:

- A1.** Apply ecological theory to conservation and management planning scenarios.
- A2.** Evaluate various issues which can affect ecosystem conservation and management and apply knowledge to recommend conservation and management strategies.
- A3.** Use knowledge of ecosystem function and conservation management to evaluate or develop conservation plans

Course Content:

The content in this course explores in detail approaches to ecosystem conservation and management that promotes ecological resilience. The current thinking, theories and paradigms underpinning ecosystem conservation and management are considered, including landscape ecology, island biogeography, indigenous land management and ecosystem-scale conservation approaches.

Topics may include:

- Island biogeography applications.
- Landscape ecology.
- Ecosystem resilience.
- Comprehensive, adequate and representative conservation management.
- Indigenous land management.
- Ecosystem-scale conservation in action.

Values:

- V1.** Value the importance of healthy ecosystems for the the maintenance of biodiversity and global health.
- V2.** Appreciate the role of science in achieving effective management of ecosystems.

Graduate Attributes

The Federation University FedUni graduate attributes (GA) are entrenched in the Higher Education Graduate

Attributes Policy (LT1228). FedUni graduates develop these graduate attributes through their engagement in explicit learning and teaching and assessment tasks that are embedded in all FedUni programs. Graduate attribute attainment typically follows an incremental development process mapped through program progression. **One or more graduate attributes must be evident in the specified learning outcomes and assessment for each FedUni course, and all attributes must be directly assessed in each program**

Graduate attribute and descriptor		Development and acquisition of GAs in the course			
		Learning Outcomes (KSA)	Code A. Direct B. Indirect N/A Not addressed	Assessment task (AT#)	Code A. Certain B. Likely C. Possible N/A Not likely
GA 1 Thinkers	Our graduates are curious, reflective and critical. Able to analyse the world in a way that generates valued insights, they are change makers seeking and creating new solutions.	K1, K2, K3, S1, S2, S3	A, A, A, A, A, A	AT1, AT2, AT3	A, A, B
GA 2 Innovators	Our graduates have ideas and are able to realise their dreams. They think and act creatively to achieve and inspire positive change.	K1, K2, K3, S1, S2, S3, A1, A2, A3	A, A, A, A, A, A, A, A, A	AT1, AT2	A, A
GA 3 Citizens	Our graduates engage in socially and culturally appropriate ways to advance individual, community and global well-being. They are socially and environmentally aware, acting ethically, equitably and compassionately.	K1, K2, K3, S1, S2, S3, A1, A2, A3	A, A, A, A, A, A, A, A, A	AT1, AT2	A, A
GA 4 Communicators	Our graduates create, exchange, impart and convey information, ideas, and concepts effectively. They are respectful, inclusive and empathetic towards their audience, and express thoughts, feelings and information in ways that help others to understand.	K3, S1, S3, A1, A2, A3	A, B, B, B, A, A	AT1, AT2	A, A
GA 5 Leaders	Our graduates display and promote positive behaviours, and aspire to make a difference. They act with integrity, are receptive to alternatives and foster sustainable and resilient practices.	K1, K3, S1, S2, S3, A1, A2, A3	B, B, B, B, B, B, B, B	AT2	B

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S2, A1, A2	Tutorial discussions based on theoretical and practical aspects of ecosystem conservation and management described in the published literature or other media.	Tutorial discussions and associated freewrites and reflections	20-40%
K1, K2, K3, S1, S2, S3, A1, A2, A3	Critically review an existing conservation management plan including justified recommendations for change	Major assignment	20-40%
K1, K2, S1, S2, A1, A2	Demonstration, application and interpretation of knowledge and skills.	End of semester test	30-40%

Adopted Reference Style:

Australian Harvard