

Syllabus Course description

Course title	Basics of Landscape Ecology
Course code	47050A
Scientific sector	BIO/03
Degree	Environmental Management of Mountain Areas
Semester	I
Year	Ι
Academic year	2024/25
Credits	3
Modular	Yes

Total lecturing hours	18
Total lab hours	
Total exercise hours	12
Attendance	requested
Prerequisites	none
Course page	https://www.unibz.it/en/faculties/agricultural- environmental-food-sciences/master-environmental- management-mountain-areas/course-offering/

particular with the seminar part.

Lecturer	Prof. Dr. Stefan Zerbe
Scientific sector of the lecturer	BIO/03
Teaching language	English
Office hours	Upon request
Teaching assistant	Dr. Katharina Alverà
List of topics covered	 The course will cover the following topics: Basic terms and concepts in ecology Plant species: systematics and taxonomy Introduction to the discipline and history of Landscape Ecology Landscape history in Central Europe Multifunctional and traditional landscapes Patterns and processes in landscapes Methodologies in Landscape Ecology Ecosystems and land-use types in mountain areas Vegetation and its differentiation in landscapes



Learning outcomes	Knowledge and understanding of basic and applied
Teaching format	In the lecture part, the topics are presented by the professor. On the excursions, the professor and local guides will be active. Generally, Power Point presentations will be available in the course reserve collection database of the Faculty. The professor will eventually provide additional material.
	10. Ecosystem and landscape services11. Urban landscapes12. Interdisciplinary aspects in Landscape Ecology

	additional material.
Learning outcomes	Knowledge and understanding of basic and applied aspects and methodologies in Landscape Ecology; knowledge and understanding of landscape patterns and processes as well as human impact on mountain ecosystems and landscapes
	Applying knowledge and understanding to landscape and ecosystem management, solving environmental problems, or within research projects
	Making judgements on anthropogenic landscape changes, human impact, management options, and sustainable landscape development
	Communication skills to present basic and applied aspects of landscape ecology and management to stakeholders, scientists, and the public clearly and unambiguously
	Learning skills allow the students to continue their studies in a manner that may be largely self-directed or autonomous within practical projects or a PhD program

Assessment	Written exam
Assessment language	English
Evaluation criteria and	Relevant for written exam assessment: clarity of
criteria for awarding marks	answers, ability to summarize, evaluate, and establish
	relationships between topics

Required readings	 Farina, A. (2007). Principles and Methods in Landscape Ecology: Towards a Science of the Landscape. 2. ed., Springer, Dordrecht, pp1-414.
	• Turner, M.G., Gardner, R.H. (2015). Landscape Ecology in Theory and Practice. Pattern and Process. Springer, 2nd ed.
	 Leuschner, C. (2018). Vegetation of Central Europe. 2 Vols. Springer
	 Zerbe, S. (2022). Restoration of Multifunctional Cultural Landscapes. Merging Tradition and Innovation for a Sustainable Future. Landscape Ser. 30. Springer



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Supplementary readings	Papers provided during the lecture	
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