Syllabus

Course Description

Course Title	Elements of Botany and Ecological Perspectives on the Encounter between Nature and Culture
Course Code	56009
Course Title Additional	
Scientific-Disciplinary Sector	BIOS-01/A
Language	Italian
Degree Course	Master 2nd level EDENSPACES - Designing Educational Landscapes: A Dialogue Between Pedagogy, Architecture, Design and Nature"
Other Degree Courses (Loaned)	
Lecturers	Prof. Dr.Dr. Robert Philipp Wagensommer, RobertPhilipp.Wagensommer@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/40174 Dr. Mita Drius, Mita.Drius@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/44449
Teaching Assistant	
Semester	All semesters
Course Year/s	-
CP	4
Teaching Hours	12 h (Prof. Wagensommer Robert Philipp) 12 h (Dr. Drius Mita)
Lab Hours	0
Individual Study Hours	76
Planned Office Hours	0
Contents Summary	The course introduces the fundamental elements of botany and ecology applied to the design of educational landscapes, ranging from the use of plant species by humans to ecosystem services.

Course Topics	The course introduces the fundamentals of botany and ecology as applied to the design of educational landscapes. Starting from a scientific understanding of plants and plant systems, the course explores the relationships between nature and culture, using an approach that intertwines botany, ecology, and landscape ecology. The topics covered will be: - Plant blindness; - Native and alien species, with a focus on invasive species; - Human use of plant species and ecological niche; - Basics of Landscape Ecology; - Ecosystem services, i.e. the benefits provided by ecosystems; - Green infrastructure: solutions that mimic nature while supporting biodiversity and human communities.
Keywords	biodiversity, landscape ecology, green infrastructure, alien plant species, plant blindness, ecosystem services
Recommended Prerequisites	N/A
Propaedeutic Courses	
Teaching Format	round table, interactive lecture
Mandatory Attendance	Yes, at least 70% of the hours scheduled for in-person lectures.
Specific Educational Objectives and Learning Outcomes	- Provide the basics of botany and plant ecology necessary to read and design the landscape; - Integrate botanical and ecological criteria into the design of educational and sustainable landscapes; - Offer tools to integrate biodiversity and sustainability into the design of educational and community spaces.
Specific Educational Objectives and Learning Outcomes (additional info.)	N/A
Assessment	Multiple choice written exam
Evaluation Criteria	Knowledge of the required topics
Required Readings	Study material will be made available to students on OLE, Reserve Collection or Teams
Supplementary Readings	• Addabbo, C., Bruni, R., & Canadelli, E. (a cura di). (2023). Impronte. Noi e le piante. Edizioni ETS.

	• Grunewald, K., & Bastian, O. (Eds.). (2015). Ecosystem services – concept, methods and case studies. Springer.
Further Information	N/A
Sustainable Development Goals (SDGs)	Good health and well-being, Clean water and sanitation, Sustainable cities and communities, Life on land, Climate action, Life below water, Responsible consumption and production