

# OS9a - Biodiversity in agricultural landscape - course description

General information	
Course name	OS9a - Biodiversity in agricultural landscape
Course ID	13.9-WB-OS2P-bioroż-S17
Faculty	<a href="#">Faculty of Biological Sciences</a>
Field of study	Environmental Protection
Education profile	academic
Level of studies	First-cycle studies leading to Bachelor's degree
Beginning semester	winter term 2021/2022

Course information	
Semester	5
ECTS credits to win	4
Course type	obligatory
Teaching language	english
Author of syllabus	<ul style="list-style-type: none"><li>prof. dr hab. Jerzy Karg, prof. UZ</li></ul>

Classes forms					
The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Lecture	15	1	-	-	Credit with grade
Laboratory	15	1	-	-	Credit with grade

## Aim of the course

Transfer of knowledge about landscape ecology, with particular emphasis on biodiversity in agricultural landscapes.

## Prerequisites

Knowledge of the basics of biology and ecology

## Scope

Definitions and measures of biodiversity. Types of biodiversity. Ecosystems of agricultural landscapes. Seminal elements in the landscape. Ecotones. Flora and fauna. Rare species, plants, fungi, invertebrates, vertebrates. Alien and invasive species. Methods of biodiversity research. Reintroductions of species. Landscape structure. Environmental corridors – protection of genetic diversity. The role of forest islands. Active protection. Landscape formation for the protection of biodiversity.

## Teaching methods

Lectures and laboratory exercises.

## Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
Understanding of the agricultural landscape functioning. Using the concept of biodiversity. The ability to perceive the differences between ecosystems in an agricultural landscape. Learning about main species of flora, microflora, fauna, rare and endangered species.	<ul style="list-style-type: none"><li><a href="#">K1A_W45</a></li></ul>	<ul style="list-style-type: none"><li>a pass - oral, descriptive, test and other</li></ul>	<ul style="list-style-type: none"><li>Lecture</li><li>Laboratory</li></ul>
Orientation in research methodology. Adaptation of research methods to specific groups of organisms. Understanding of the importance of landscape structure for the protection of species biodiversity and ecological corridors for the protection of genetic diversity. Ability to indicate the causes of biodiversity deprivation and preventing them.	<ul style="list-style-type: none"><li><a href="#">K1A_U68</a></li></ul>	<ul style="list-style-type: none"><li>a pass - oral, descriptive, test and other</li></ul>	<ul style="list-style-type: none"><li>Lecture</li><li>Laboratory</li></ul>
Work in group.	<ul style="list-style-type: none"><li><a href="#">K1A_K11</a></li></ul>	<ul style="list-style-type: none"><li>a pass - oral, descriptive, test and other</li></ul>	<ul style="list-style-type: none"><li>Lecture</li><li>Laboratory</li></ul>

## Assignment conditions

Presentation of selected topics.

## Recommended reading

## Further reading

## Notes

