

**Subject card**

<b>Subject name and code</b>	Structure and functioning of land ecosystems, PG_00050819						
<b>Field of study</b>	Environmental Protection						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Ekologii Wód Słodkich -> Katedra Ekologii Roślin -> Faculty of Biology						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Krzysztof Banaś				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		2.0		8.0	25
<b>Subject objectives</b>	<p>1. To give basic knowledge of the complexity of the structure of terrestrial ecosystems and the reasons for their variation in time and space.</p> <p>2. To learn about the principles of terrestrial ecosystems.</p> <p>3. To be able to assess threats to terrestrial ecosystems.</p> <p>4. To understand natural phenomena and processes.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OŚL3_K06] Knows and appreciates the practical application of the acquired knowledge and skills in solving problems.	appreciates the knowledge and skills acquired and demonstrates responsibility for the environment and its protection through the need for continuing education	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work
	[OŚL3_U08] Correctly concludes based on the available data from various sources.	on the basis of available data, assesses the structure and functioning of various types of terrestrial ecosystems and predicts changes in their natural character as a result of anthropogenic impacts	[SU4] test/exam - oral or written
	[OŚL3_W06] Characterises levels of life organization, biodiversity and the interaction of organisms and the environment.	characterizes the structure and species diversity of terrestrial biocoenoses and explains their relationship to the biotope	[SW4] test/exam - oral or written
	[OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation.	distinguishes between natural and anthropogenic processes in the terrestrial environment and explains their impact on the various elements of the ecosystem	[SW4] test/exam - oral or written
[OŚL3_W01] Discusses the basic concepts of mathematics, physics, chemistry and biology. Describes physical, chemical and biological phenomena occurring in nature as well as geological, geomorphological and climatic conditions of the functioning of nature.	defines the processes that determine the functioning of terrestrial ecosystems and explains the rate at which they occur depending on geological and climatic conditions	[SW4] test/exam - oral or written	
Subject contents	The origin of land, the theory of plate tectonics, theories of the origin of life, the exit of plants and animals on land. Primary production, secondary production, decomposition and deposition of organic matter, circulation of elements and trophic network in terrestrial ecosystems. Phenomena and processes determining the composition and species richness of ecosystems. Structure and functioning of ecosystems of wetlands, deserts, semi-deserts, steppes, forests and others. Threats and degradation of terrestrial ecosystems.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written colloquium with open questions	51.0%	100.0%
Recommended reading	Basic literature	n/a	
	Supplementary literature	n/a	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.