

Subject card

Subject name and code	Ecology, PG_00103623						
Field of study	Environmental Protection						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Laboratory of Avian Ecophysiology -> Department of Vertebrate Ecology and Zoology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Agnieszka Ożarowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		15.0	50
Subject objectives	1. Getting knowledge and understanding of basic ecological processes and relationships. 2. Emphasizing the relationship between ecology and other fields of science. 3. Developing awareness of the impact of human activity on the functioning of nature.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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.		The student can characterize and explain ecological phenomena and processes		[SW4] test/exam - oral or written		
	[OŚL3_W06] Characterises levels of life organization, biodiversity and the interaction of organisms and the environment.		The student can determine the mutual relations in the organism-environment system and explain their basis		[SW4] test/exam - oral or written		
	[OŚL3_U11] Uses statistical methods as well as algorithms and IT techniques, including application software packages to describe environmental experiments and analysis of typical data in socio-economic activities based on science and natural sciences.		The student applies basic mathematical, statistical and computer techniques used in ecology to describe phenomena and analyze data used		[SU4] test/exam - oral or written		

Subject contents	Main ecological processes at different levels of organic life. Definitions and basic ecological concepts. Ecological interactions (organism-environment, individual-individual, species-species). Relationship of ecology and other branches of science. Characteristics of selected environments, geographic and ecological issues. Anthropogenization. Introduction to applied ecology.		
Prerequisites and co-requisites	Basic knowledge of biology		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	attendance at classes	85.0%	50.0%
	written test	51.0%	50.0%
Recommended reading	Basic literature	1. Weiner J. Życie i ewolucja biosfery. PWN W-wa 2020 2. Krebs C.J. Ekologia eksperymentalna analiza rozmieszczenia i liczebności. PWN W-wa 2015	
	Supplementary literature	1. Begon M., Mortimer M., Thompson D.J.. Ekologia populacji : studium porównawcze zwierząt i roślin. Wydawnictwo. Naukowe PWN. 1999 2. Kozłowski S. 2000. Ekorozwój : wyzwanie XXI wieku. Wydaw. Naukowe PWN, 2000 3. Mackenzie A., Ball A.S., Virdee S.R. Ekologia. Krótkie wykłady. PWN W-wa 2015 4. Pullin A.S.. Biologiczne podstawy ochrony przyrody. Wydawnictwo Naukowe PWN. 2004 5. Futuyma D.J. Ewolucja. Wyd. Uniwersytetu Warszawskiego 2008 6. Wolański N. 2016. Ekologia człowieka. PWN (tomy I i II) 2016	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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