University of Gdańsk

Subject card

Subject name and code	Ecology, PG_00103623		
Field of study	Environmental Protection		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
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_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
[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_U04] Uses specialist language in the discussion and properly uses the nomenclature in the field of environmental protection and individual disciplines related to it.	The student understands and applies terminology used in ecology	[SU4] test/exam - oral or written
[OŚL3_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it.	The student can work individually and in small teams	[SK8] observation of student's independent or team work
[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_U09] Prepares in Polish/ English a short description of research, observation or problem task carried out during classes using appropriate scientific terminology.	The student can present the results of his/her own experiments and field research, compare them with those obtained by others and interpret the differences	[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