

Subject card

Subject name and code	Ecology - lecture, PG_00118070						
Field of study	Oceanography						
Date of commencement of studies	October 2025		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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Marine Ecosystems Functioning -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksandra Zgrundo				
	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		3.0		50.0	83
Subject objectives	Presentation of ecology as a scientific discipline using specific and proper concepts and research methods. It is assumed that the student, in addition to knowledge of basic concepts and techniques related to the study of ecological systems, will understand the importance of abiotic and biotic factors and processes influencing the structure and functioning of ecosystems. In addition, student will understand the importance of the impact of human activity on the functioning of the Earth's ecosystems and will learn the assumptions of the idea of sustainable development.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	OCEANL3-W02		Knows and understands the basic processes and phenomena occurring between living and non-living elements of the environment.		[SW4] test/exam - oral or written		
	OCEANL3-U12		Is able to systematically expand and update ecological knowledge.		[SU4] test/exam - oral or written		
Subject contents	Ecology the aim and subject of research, basic concepts: habitat, ecological niches, environment, environmental factors and their impact on organisms, the concept of a limiting factor in relation to the law of minimum and ecological tolerance, life forms, ecological spectra. Methodology of basic ecological research. Structure, dynamics and functioning of populations, biocenoses and ecosystems. The phenomenon of homeostasis and ecological succession. Trophic nets. Introduction to evolutionary ecology. Introduction to the issue of biodiversity (definitions, threats, legal regulations). Practical application of ecological tools and theories in the light of the idea of sustainable development						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	exam		51.0%		100.0%		
Recommended reading	Basic literature		Kingsolver R.W. 2006. Ecology on campus: lab manual. San Francisco [etc.], Pearson-Benjamin Cummings Smith T.M., Smith R.L. 2014. Elements of Ecology. San Francisco [etc.], Benjamin Cummings				

	Supplementary literature	Krebs Ch.J .2011. Ekologia. Eksperymentalna analiza rozmieszczenia i liczebności. Wydawnictwo Naukowe PWN, Warszawa (in Polish)
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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