

**Subject card**

<b>Subject name and code</b>	Ecology - lecture, PG_00199796						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to scientific research 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>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	3	<b>ECTS credits</b>			3.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			exam		
<b>Conducting unit</b>	Department of Marine Ecosystems Functioning -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Aleksandra Zgrundo				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	30.0	0.0	0.0	0.0	0.0	30
	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>	30	2.0	43.0	75		
<b>Subject objectives</b>	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.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[OCEANL3-W02] has a broad knowledge and understanding of physical, biological, chemical, and geological processes and phenomena occurring in aquatic environments, with particular emphasis on the marine environment		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 oceanographic knowledge and enhance professional qualifications		Is able to systematically expand and update ecological knowledge.		[SU4] test/exam - oral or written		
<b>Subject contents</b>	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						
<b>Prerequisites and co-requisites</b>							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		exam	51.0%
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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