

Subject card

Subject name and code	Biogeography of the Seas and Oceans - lectures, PG_00205289						
Field of study	Oceanography						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study Optional subject group 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	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			1.0		
Learning profile	academic	Assessment form			exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Panasiuk				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	To familiarize students with the basics of the variability of flora and fauna communities in the water column and on the seabottom on a global scale, with the biogeographic divisions of seas and oceans.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[OCEANL3-W01] has an advanced knowledge and understanding of the terminology used in oceanography and related exact and natural sciences (in Polish and a selected foreign language)		student has an advanced knowledge and understanding of the terminology in natural sciences (in Polish, English and/or Latin), with particular emphasis on the biogeographical foundations of the division of seas and oceans			[SW4] test/exam - oral or written	
	[OCEANL3-W03] has an advanced understanding of the relationships between living and non-living components of aquatic environments, and is aware of the complex nature, intricacy, and natural variability of these environments		student knows and understands at an advanced level the relationships between animate and inanimate elements of the aquatic environment, identifies and correctly describes basic natural phenomena and explains their course in relation to factors influencing the distribution of marine flora and fauna			[SW4] test/exam - oral or written	
	[OCEANL3-W06] has an advanced understanding of the principles of managing the marine environment and its resources, as well as the consequences of disrupting the balance of marine ecosystems		student knows and understands the basic legal regulations and principles regarding the sustainable development of the marine environment and nature conservation, as well as the management of the marine environment and its resources in a global perspective			[SW4] test/exam - oral or written	

Subject contents	1. Characteristics of biogeographic regions - biogeographic divisions (criteria for division into bioregions, provinces, etc.). 2. Biogeographic characteristics of cold regions - the Arctic and Antarctic. 3. Characteristic water masses, characteristic fauna communities within the boreal and notal regions; differences in fauna life in the boreal-Mediterranean and boreal-Pacific subregions and in semi-enclosed seas. 4. Uniqueness of water column and seabed complexes of the tropical region: coral reefs as the most mature ecosystem in the sea. 5. Biogeography of the hadal and abyssal: typical fauna communities, horizontal differentiation of settlement, endemics and cosmopolitans, spread of species.		
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	Lomolino M. V., Brown J. H., Riddle B. R. (2005) Biogeography, Sunderland: Sinauer Associates Longhurst A. (2007) Ecological geography of the sea. Elsevier, Academic Press, San Diego. Luning K. (1990) Seaweeds, Their environment, biogeography, and ecophysiology. John Wiley & Sons. Inc. New York. Wiktor K., Węśławski J. M., Żmijewska M. I. (1997) Biogeografia Morza, Wyd. UG. Gdańsk. (in polish)	
	Supplementary literature	Bailey R. G. (1998) Ecoregions: the ecosystem geography of the oceans and continents. Springer, New York. Blaxter J. H. S., Southward A. J. (1997) The Biogeography of the Ocean. In: Advances in Marine Biology, Academic Press, San Diego Cox C. B., Moore P. D. (2010) Biogeography: An ecological and Evolutionary Approach, John Wiley & Sons, Hoboken Gage J. D., Tyler P. A. (1991) DEEP-SEA BIOLOGY: A natural history of organisms at the deep-sea floor. University Press, Cambridge.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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