

**Subject card**

<b>Subject name and code</b>	Introduction to Marine Mammals Biology and Protection - lecture, PG_00205299						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2028/2029		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group 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>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	6	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Iwona Pawliczka Vel Pawlik				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	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>	15		1.0		9.0	25
<b>Subject objectives</b>	Learning the basics of systematics and biological characteristics in terms of life needs and the role of marine mammals in the functioning of the marine ecosystem. Getting to know the basics of knowledge about species and habitat protection of marine mammals, with particular emphasis on the Baltic Sea. Learning about modern research methods and the importance of research in conservation.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression	the student is able to use current scientific terminology in presentations and discussing problems related to the biology and protection of marine mammals	[SU4] test/exam - oral or written
	[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)	the student knows and understands the terminology on biology and conservation of marine mammals at advanced level	[SW4] test/exam - oral or written
	[OCEANL3-W04] has an advanced understanding of issues and research problems in oceanography, and recognizes their connection with other scientific disciplines	the student knows basic research techniques and methods at an advanced level regarding marine mammals	[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	the student knows and understands potential threats to marine mammals and methods of their mitigation, knows and understands the basic legal regulations and principles regarding protection of marine mammals	[SW4] test/exam - oral or written
Subject contents	Basics of systematics and phylogeny of marine mammals Basics of biology and ecophysiology of marine mammals. Adaptations to life in an aquatic environment. Characterization and assessment of the population status of Baltic marine mammal species Threats to marine mammals and methods of reducing them. The role of the individual and science in the conservation of marine mammals.		
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	<p>HELCOM Working Group on Marine Mammals (HELCOM MaMa) - reports (online)</p> <p>IUCN Red List of Marine Mammals</p> <p>Jefferson, T., Webber, M.A., Pitman, R. 2015. Marine Mammals of the World. A Comprehensive Guide to Their Identification. Academic Press.</p> <p>The Society of Marine Mammals, Committee on Taxonomy, List of Marine Mammal Species and Subspecies (online)</p> <p>Gójska, A., Pawliczka, I., Pawlaczyk, P. 2015. National Plan of Harbour Porpoise Protection. Ministerstwo Środowiska.</p>	

	Supplementary literature	<p>Skóra, K.E., Kuklik, I. 2003. Bycatch as a potential threat to harbour porpoises (<i>Phocoena phocoena</i>) in Polish Baltic waters. NAMCCO Scientific Publications 5: 303-315</p> <p>Read A.J., 2000. Potential Mitigation Measures for Reducing the By-catches of Small Cetaceans in ASCOBANS Waters. Report to ASCOBANS, December 27th, 2000; 34</p> <p>Pawliczka, I. 2009. Czynna ochrona fok i morświnów w Polsce. W: Bobek, B., Mikoś, J., Wasilewski, R. (red) Gospodarka łowiecka i ochrona dzikich zwierząt na Pomorzu Gdańskim. Polskie Towarzystwo Leśne. Regionalna Dyrekcja Lasów Państwowych w Gdańsku. Gdańsk: 241-260</p> <p>Harding, K.C., Härkönen, T., Helander, B. And Karlsson, O. 2007. Status of Baltic grey seals: Population assessment and extinction risk. NAMMCO Sci. Publ. 6: 33-56</p> <p>Bergman, A. and Olsson, M. 1985. Pathology of Baltic grey seal and ringed seal females with special reference to adrenocortical hyperplasia: Is environmental pollution the cause of a widely distributed disease syndrome ? Finn. Game Res. 44: 47-62</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Physiological adaptations of marine mammals to life in water. History of the Baltic gray seal population. Harbor porpoise habitats in Polish marine areas based on hydroacoustic studies. The importance of NATURA2000 areas in the conservation of marine mammals. Threats to cetaceans and ways of mitigating them. Underwater noise and marine mammals.</p>	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.