

**Subject card**

<b>Subject name and code</b>	Marine microbiology - lecture, PG_00118062						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2025/2026		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group 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>	4	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Biotechnologii Morskiej -> Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Anna Toruńska-Sitarz				
	<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		5.0		10.0	30
<b>Subject objectives</b>	To learn about the different groups of marine microorganisms, the nature of their interactions with other organisms and their role in processes in the sea.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	OCEANL3-W02		W_1 [K_W02] Knows and understands the basic natural microbial processes in the marine environment. Knows and understands the basic relationships between microorganisms and other organisms and non-living elements of the aquatic environments, with particular emphasis on the marine environment.			[SW4] test/exam - oral or written	

Subject contents	<ol style="list-style-type: none"> <li>1. Breakthroughs in microbiology, with particular emphasis on marine research.</li> <li>2. Structure and diversity of marine microorganisms. Current classification systems.</li> <li>3. Mechanisms regulating microbial abundance and biomass.</li> <li>4. The role of microorganisms in the marine environment.</li> <li>5. Methods used in marine microbiological research.</li> </ol>		
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	Błaszczuk M.K., Microbiology of the Environment, PWN, Warsaw; scientific publications provided annually (according to the current state of knowledge).	
	Supplementary literature	Schlegel H.G., General Microbiology. PWN, Warsaw; Munn C.B., Marine Microbiology, Ecology and Application, Taylor & Francis Routledge.; Saylers A.A., Whitt.D.D., Microbiology - Environmental diversity, pathogenicity and the environment, PWN; De Kruijff P., Microbial hunters	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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