University of Gdańsk

Subject card

Subject name and code	Marine Microbiology - lecture, PG_00205271		
Field of study	Oceanography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	1.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Marine Biotechnology -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Toruńska-Sitarz	
	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 learn about the different groups of marine microorganisms, the nature of their interactions with other organisms and their role in processes in the sea.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	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

<table>
<tr><td>Subject contents</td><td>1. Breakthroughs in microbiology, with particular emphasis on marine research.

2. Structure and diversity of marine microorganisms. Current classification systems.

3. Mechanisms regulating microbial abundance and biomass.

4. The role of microorganisms in the marine environment.

5. Methods used in marine microbiological research.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Błaszczyk M.K., Microbiology of the Environment, PWN, Warsaw; scientific publications provided annually (according to the current state of knowledge).</td></tr><tr><td>Supplementary literature</td><td>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 Kruif P., Microbial hunters</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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