

**Subject card**

<b>Subject name and code</b>	Ecology - laboratory , PG_00202089						
<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>				2.0	
<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 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>	0.0	0.0	30.0	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	18.0	50		
<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.			[SW3] text preparation/written work	
	[OCEANL3-U12] is able to systematically expand and update oceanographic knowledge and enhance professional qualifications		Is able to systematically expand and update ecological knowledge.			[SU1] oral statement/conversation/discussion [SU3] text preparation/written work	
	[OCEANL3-K01] is willing to plan and implement, individually or as a team, the subsequent stages of the entrusted task, is willing to take responsibility for the results of these works, effectively cooperates in the team and performs various roles in it		Is ready to take responsibility for his/her own work and to comply with the principles of teamwork and responsibility for jointly implemented tasks.			[SK3] text preparation/written work [SK6] demonstration of practical skills [SK8] observation of student's independent or team work	

Subject contents	<p>1. Methods of studying individuals and populations.</p> <p>2. Populations group characteristics (including numbers, density, reproduction, mortality, age structure).</p> <p>3. Selected issues in evolutionary ecology genetic drift.</p> <p>4. Ecological tolerance.</p> <p>5. Trophic interactions between organisms.</p> <p>6. Competitive relationships.</p> <p>7. Ecological succession.</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th>Subject passing criteria</th> <th>Passing threshold</th> <th>Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Worksheets (assessed: scope and execution of research work, content - presentation and interpretation of data, language - use of specialist vocabulary and linguistic correctness)</td> <td>51.0%</td> <td>50.0%</td> </tr> <tr> <td>Activity and work during classes</td> <td>51.0%</td> <td>15.0%</td> </tr> <tr> <td>Entry tests</td> <td>51.0%</td> <td>35.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Worksheets (assessed: scope and execution of research work, content - presentation and interpretation of data, language - use of specialist vocabulary and linguistic correctness)	51.0%	50.0%	Activity and work during classes	51.0%	15.0%	Entry tests	51.0%	35.0%
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Supplementary literature	Selected scientific articles.														
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Example issues/ example questions/ tasks being completed															
Work placement	Not applicable														

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