University of Gdańsk

Subject card

Subject name and code	Ecology - laboratory , PG_00202089		
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 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	3	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit	Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Aleksandra Zgrundo	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	30.0	0.0	0.0	30

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	30	2.0	18.0	50

Subject objectives

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.

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	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

<table>
<tr><td>Subject contents</td><td>1. Methods of studying individuals and populations.

2. Populations group characteristics (including numbers, density, reproduction, mortality, age structure).

3. Selected issues in evolutionary ecology genetic drift.

4. Ecological tolerance.

5. Trophic interactions between organisms.

6. Competitive relationships.

7. Ecological succession.</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>Activity and work during classes</td><td>51.0%</td><td>15.0%</td></tr>
<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>Entry tests</td><td>51.0%</td><td>35.0%</td></tr>
</table>
</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Begon M., Townsend C.R., Harper J.L. 2006. Ecology From Individuals to Ecosystems, Blackwell Publishing Ltd
Falińska K. 1996. Ekologia roślin, (Podstawy teoretyczne, populacja, zbiorowisko, procesy), Wyd. PWN, Warszawa (in Polish)
Kalinowska A. 2002. O Ekologii - wybór na Nowe Stulecie, Agencja Reklamowo-Wydawnicza A. Grzegorczyk, Warszawa (in Polish)
Kawecka B., Eloranta P.N. 1994. Zarys ekologii glonów i środowisk śródlądowych. PWN, Warszawa (in Polish)
Kronenberg J., Bergier T. (red.) 2010. Wyzwania zrównoważonego rozwoju w Polsce, Fundacja Sendzimira, ISBN 978-83-62168-00-25. (in Polish)
Lampert W., Sommer U. 1996. Ekologia wód śródlądowych, Wyd. PWN, Warszawa (in Polish)
Trojan P. 1975. Ekologia ogólna, Wyd. PWN, Warszawa (in Polish)</td></tr>
<tr><td>Supplementary literature</td><td>Selected scientific articles.</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>
</table>

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