University of Gdańsk

Subject card

Subject name and code	Essential biology, PG_00193270						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2026/2027			
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	1		Language of instruction	Polish			
Semester of study	1		ECTS credits	3.0			
Learning profile	academic		Assessment form	exam			
Conducting unit	Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Sławomira Fryderyk				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		4.0	41.0	75	
Subject objectives	1. To learn the fundamentals of the structure, biology and classification of living organisms. 2. To understand the biological processes determining life at different levels of its organisation.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OZPL3_U08] The graduate is able to use the scientific language typical of the biological sciences in discussions with specialists	uses biological terminology correctly	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them	independently searches for and uses available biological information in electronic sources to prepare for class	[SU4] test/exam - oral or written
[OZPL3_W03] The graduate understands the basic physiological processes and their relationship to the organism's adaptation to changing environmental conditions	characterise the relationships and dependencies between the occurrence of different organisms and environmental conditions	[SW4] test/exam - oral or written
[OZPL3_W04] The graduate possesses advanced knowledge and understanding of the characteristics, systematics, and evolution of selected groups of organisms, as well as the basic concepts and mechanisms of evolution	presents the characteristics, systematics and biology of different organisms, describes the basic concepts and mechanisms of evolution	[SW4] test/exam - oral or written
[OZPL3_K08] The graduate is ready to systematically update his/ her natural knowledge and to apply it in practice	has an up-to-date knowledge of biology and an understanding of the practical application of this knowledge	[SK1] oral statement/conversation/ discussion [SK4] test/exam - oral or written
[OZPL3_W01] The graduate possesses advanced knowledge and understanding of the structural and functional relationships at the cellular, tissue, organ, and body levels.	explains basic concepts of biology, showing structure and functional relationships at the cellular, tissue, organ and organismal levels.	[SW4] test/exam - oral or written
[OZPL3_K05] The graduate is ready to understand the need to improve their own competences, update their knowledge and improve their skills	understands the need to improve his/her own competence and to update knowledge and improve his/her skills	[SK1] oral statement/conversation/ discussion

Subject contents

Nomenclature, criteria for classification of living organisms. Levels of biological organisation (molecular, organismal, population and species).
Diversity and relationships of modern groups within Procaryota and Eucaryota - phyllogenetic trees, biological characteristics. Developmental biology. Major issues in inheritance and evolution, including evolutionary processes of species origin and extinction. Selected topics in biogeography, ethology and anthropology.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	51.0%	100.0%
attendance	80.0%	0.0%

Recommended reading

Basic literature	Błaszak C. (red.). 2009. Zoologia, t.1. Bezkręgowce. PWN, Warszawa. Błaszak C. (red.). 2011, 2012. Zoologia, t. 2. Stawonogi. cz. 1. i 2. PWN, Warszawa. Błaszak C. (red.). 2015. Zoologia, t. 3. Szkarłupnie - płazy. cz. 1. PWN, Warszawa. Błaszak C. (red.). 2020. Zoologia, t. 3. Ssaki. cz. 3. PWN, Warszawa. Campbell N.A., Reece J.B. 2014. Biologia. Rebis, Poznań. Grodziński Z. 1979. Zoologia strunowce i przedstrunowce. PWN, Warszawa. Szweykowska A., Szweykowski J. 2016. Botanika. PWN, Warszawa.
Supplementary literature	Encyklopedia biologiczna. T.I-XIII. OPRES Kraków, 2000. Gajewski W. 1992. Genetyka. PWRiL, Warszawa. Izdebska J.N., Fryderyk S. 2010. New data on sucking lice (Phthiraptera, Anoplura) of rodents (Rodentia: Muridae, Cricetidae) in the northern Poland. (W:) Arthropods. Ecological and pathological aspects of parasite-host relationships. A. Buczek, C. Błaszak (red.). Akapit, Lublin: 19-24. Jasiński A. 1984. Zootomia kręgowców. PWN, Warszawa. Jura C. 2007. Bezkręgowce. PWN Warszawa Malinowski A., Strzałko J. (red.). 1989. Antropologia. PWN Warszawa Poznań. Malinowski E. 1983. Anatomia roślin. PWN, Warszawa. Podbielkowski Z. 1990. Rozmnażanie się roślin. WSiP, Warszawa. Rajski A. 1994. Zoologia. T. I i II. PWN, Warszawa. Zawistowski S. 1990. Zarys histologii. PZWL, Warszawa
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Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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