

Subject card

Subject name and code	Functional anatomy of the Vertebrates, PG_00207469						
Field of study	Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Magdalena Remisiewicz				
	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	Understanding the relationship between the structure and function of systems and internal organs in vertebrates in the context of adaptation to the environment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLL3_W06] knows the types of natural habitats, selected species of flora and fauna (with particular emphasis on coastal environments) as well as methods of nature conservation and the principles of sustainable development						
	[BIOLL3_W03] knows and understands at an advanced level the principles of life functioning at the level of populations, biocenoses and ecosystems, the determinants of biological diversity as well as the mechanisms and molecular basis of the evolution of organisms						
	[BIOLL3_U07] is able to present and justify her/his adopted position, using appropriate scientific argumentation, adapted to various audiences, and take part in discussions or debates						

Subject contents	Anatomical adaptations of the musculoskeletal system in vertebrates to the environment and lifestyle. Homology of anatomical elements of the musculoskeletal system and the relationship between their structure and function in various groups of vertebrates: axial skeleton and limb skeleton. Anatomical features of the oral apparatus in vertebrates from different groups and their functional adaptation to feeding habits. Anatomical adaptations of the digestive system in vertebrates to feeding habits. The connection between the function and anatomy of the respiratory system in vertebrates with the environment and lifestyle of vertebrates. Structure and adaptation of the circulatory system to the living environment of vertebrates from different groups		
Prerequisites and co-requisites	none		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test with open questions	51.0%	100.0%
Recommended reading	Basic literature	1. Liem K. Bemis W, Walker W. F. Grande L. 2001. Functional Anatomy of the Vertebrates: An Evolutionary Perspective. Thomson Brooks/Cole. 2. Kardong K. V. Vertebrates; comparative anatomy, function, evolution. 2005. McGraw-Hill Science/Engineering/Math 3. Nowakowski J.K., Szulc J., Remisiewicz M. 2014. The further the flight, the longer the wing: relationship between wing length and migratory distance in Old World reed and bush Warblers (Acrocephalidae and Locustellidae). Ornis Fennica 91: 178-186.	
	Supplementary literature	1. Kapitt. W., Elson L. M. 2022. The Anatomy Coloring Book. Waltham, Massachusetts, United States	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Anatomical adaptations of the musculoskeletal system in vertebrates to the environment and lifestyle. Homology of anatomical elements of the musculoskeletal system and the relationship between their structure and function in various groups of vertebrates: axial skeleton and limb skeleton. Anatomical features of the oral apparatus in vertebrates from different groups and their functional adaptation to feeding habits. Anatomical adaptations of the digestive system in vertebrates to feeding habits. The connection between the function and anatomy of the respiratory system in vertebrates with the environment and lifestyle of vertebrates. Structure and adaptation of the circulatory system to the living environment of vertebrates from different groups		
Work placement	Not applicable		

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