

Subject card

Subject name and code	Evolution and systematics of chordates, PG_00154603						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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	2		ECTS credits		3.0		
Learning profile	academic		Assessment form				
Conducting unit	Laboratory of Vertebrate Ecology and Ethology -> Department of Vertebrate Ecology and Zoology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Dariusz Jakubas				
	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 introduce the basic and most important concepts of chordates evolution and systematics. 2. to learn and understand the methods used in systematics. 3. to review of selected representatives of the different systematic groups of the choradates 4. To understand the fundamentals of living organisms and their interrelationships.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OZPL3_U12] The graduate is able to learn independently in a targeted manner	The ability to seek information independently	[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	Awareness of the need to critically analyse knowledge, especially that obtained from the Internet	[SU4] test/exam - oral or written
	[OZPL3_K08] The graduate is ready to systematically update his/ her natural knowledge and to apply it in practice	Awareness of changes in the systematics of chordate taxonomy and the need to update one's own knowledge on the subject	[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.	Basic concepts of chordates anatomy. Structure and evolution of tracts. Aromorphoses and idioadaptations in vertebrate evolution.	[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	Characteristics, origins and main evolutionary trends in chordates. Different concepts of systematic classification (including cladistic concepts). Overview of the different systematic groups of the chordates.	[SW4] test/exam - oral or written
Subject contents	Characteristics, origins and main trends in the evolution of chordates. Basic concepts of chordate anatomy. Structure and evolution of systems. Aromorphoses and idioadaptations in vertebrate evolution. Different concepts of systematic classification (including cladistic concepts). Overview of the different systematic groups of chordates.		
Prerequisites and co-requisites	Basic knowledge of animal histology is required		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exam test	51.0%	100.0%
Recommended reading	Basic literature	Błaszak Cz. 2015. Zoologia Tom 3 Część 1 Szkarłupnie - płazy PWN, Warszawa Błaszak Cz. 2020. Zoologia Tom 3 Część 3 Ssaki PWN, Warszawa Kardong K.V. 1998-2018. Vertebrates. Comparative Anatomy, Function, Evolution. WCB McGaw-Hill Comp. Inc., New York. Szarski H. (red). 1976. Anatomia porównawcza kręgowców. PWN, Warszawa Jasiński A. 1973. Zootomia kręgowców. PWN, Warszawa. Grodziński Z. (red). 1967. Zoologia. Przedstrunowce i strunowce. PWN, Warszawa.	
	Supplementary literature	Szarski H. 1982-2023. Historia Zwierząt Kręgowych. PWN. Warszawa.	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	what features are common to all chodates what are the adaptations of birds to flight in the anatomy of different systems what are the most important stages in the invasion of land by vertebrates structure of mammalian limbs as an adaptation to different forms of locomotion	
Work placement	Not applicable		

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