

Subject card

Subject name and code	Evolution and systematics of chordates, PG_00207397						
Field of study	Biology						
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	2		ECTS credits		3.0		
Learning profile	academic		Assessment form		credit		
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	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		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
	[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_W01] knows and understands at an advanced level the structure and functioning of organisms at all levels of the organization of life - from the cell (prokaryotic and eukaryotic), through tissues, organs, to the organism - as well as the relationships between them and their adaptations to the environment		
	[BIOLL3_U09] is able to learn independently and plan her/his own development in an organized and controlled manner		
	[BIOLL3_U03] is able to search for, select and critically analyze information from various sources, including scientific literature and electronic databases, as well as read and understand scientific texts in Polish and English		
	[BIOLL3_U01] is able to use basic research techniques and tools appropriate for the biological sciences and perform physical, chemical and biological observations and measurements in the laboratory and in the field, individually and in a team, while organizing her/his work appropriately and in a maintained way		
	[BIOLL3_K05] is ready to perform professional roles responsibly, both individually and in teams, including organizing the work of small teams and taking joint responsibility for the implementation of assigned tasks and the results achieved.		
Subject contents	Anatomy and morphology of the lower chordates. Antomy and evolution of the skeletal system. Anatomy of selected vertebrate classes. Overview of selected representatives of the different groups of the 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
	written colloquium	51.0%	69.0%
	multimedial presentation	51.0%	8.0%
	practical colloquium	51.0%	23.0%
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.	
	Supplementary literature	Szarski H. 1982-2023. Historia Zwierząt Kręgowych. PWN. Warszawa	
	eResources addresses		

Example issues/ example questions/ tasks being completed	- origin of the auditory ossicles - anatomy of mammalian limbs as an expression of adaptation to different modes of locomotion - anatomy and morphology of early chordates
Work placement	Not applicable

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