

Subject card

Subject name and code	Evolution and systematics of chordates, PG_00129980						
Field of study	Biology						
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	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		8.0		37.0	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_K03] The graduate will be able to organise the work of a small team and work effectively as part of a team	ability to work in a small team on a dissection and to prepare a multimedia presentation	[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work
	[BIOLL3_U02] The graduate will be able to make observations individually and in teams, and carry out basic physical, biological and chemical measurements in the field or laboratory	Observation of preparations, participation in dissection	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written [SU6] demonstration of practical skills
	[BIOLL3_U07] The graduate should be able to independently search for and use available sources of biological information, including electronic sources	Awareness of the need to critically analyse knowledge, especially that obtained from the Internet	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[BIOLL3_W06] The graduate will know the characteristics, systematics and understand the evolution of selected groups of organisms including molecular basis and basic concepts and mechanisms of evolution	Systematic review of selected representatives of the different systematic groups of the chordates.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[BIOLL3_W03] The graduate knows the structure and functional relationships at the cellular, tissue, organ and organismal levels	Anatomy and morphology of the lower chordates. Anatomy and evolution of the skeletal system. Anatomy of selected vertebrate classes	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[BIOLL3_U08] The graduate is able to learn independently, in a focused manner	Awareness of changes in the systematics of chordates taxonomy and the need to update knowledge on this subject independently	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written
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
	practical colloquium	51.0%	23.0%
	written colloquium	51.0%	69.0%
	multimedial presentation	51.0%	8.0%
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	Adresy na platformie eNauczanie:	
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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