University of Gdańsk

Subject card

Subject name and code	Evolution and systematics of chordates, PG_00196818		
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	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_U07] The graduate is 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_U02] The graduate is 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_K03] The graduate is 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_W06] The graduate will know at an advanced level 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 and uderstands at an advanced level the 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	

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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