University of Gdańsk

Subject card

Subject name and code	Evolution and systematics of chordates, PG_00196819		
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	exam
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
[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	[SU4] test/exam - oral or written
[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	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
[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	Basic concepts of chordates anatomy. Structure and evolution of tracts. Aromorphoses and idioadaptations in vertebrate evolution.	[SW4] test/exam - oral or written
[BIOLL3_U08] The graduate is able to learn independently, in a focused manner	The ability to seek information independently	[SU4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td colspan="3">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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Basic knowledge of animal histology is required</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>exam test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">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.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Szarski H. 1982-2023. Historia Zwierząt Kręgowych. PWN. Warszawa.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">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</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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