University of Gdańsk

Subject card

Subject name and code	Zoology, PG_00203434		
Field of study	Medical Biology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	2	Language of instruction	Polish
Semester of study	3	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	not relevant

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMEDL3_W16] has an advanced knowledge of the experimental methods and the most important techniques of biological sciences that can be applied to medical biology and diagnostics	explains the theoretical basis of experimental methods and lists the most important techniques of the biological sciences that can be applied to medical biology and diagnostics	[SW2] presentation/project/paper/ report
[BIOLMEDL3_W04] has an advanced knowledge and understanding of the characteristics, systematics and evolution of selected groups of organisms including molecular basis and describes the basic concepts and mechanisms of evolution	Review of selected systematic groups of protozoa and invertebrates (characteristics and systematic position) with particular emphasis on native species. Human use of invertebrates and their economic-medical importance and role in nature. Structure and evolution of selected systems. Review of selected representatives of the different systematic groups of the chordates.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW3] text preparation/written work
[BIOLMEDL3_W03] has an advanced knowledge and understanding of the structure of the animal or human organism, the processes and functional relationships at the cellular, tissue, organ and organismal levels, and explains their relationship to behavior and adaptation of the organism to changing environmental conditions	Human use of invertebrates and their economic and medical importance and role in nature. Anatomy and morphology of the lower chordates. Anatomy and evolution of selected systems. Anatomy of selected vertebrate classes.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW3] text preparation/written work
[BIOLMEDL3_U01] uses basic apparatus and research tools and, maintaining the correct sequence of operations, performs simple physical, biological or chemical observations and measurements in laboratory work in the biological or medical sciences	observation of wet and dry slides and dissecting	[SU8] observation of student's independent or team work
[BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines	Awareness of changes in the systematics of invertebrates and vertebrates taxonomy and the need to update knowledge on this subject independently	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[BIOLMEDL3_K07] Is responsible for the equipment/materials entrusted to him and his own work and respects the work of others	ability to work in a small team when viewing wet and dry slides and dissecting	[SK8] observation of student's independent or team work

Subject contents

Review of selected systematic groups of protozoa and invertebrates (characteristics and systematic position) with particular emphasis on native species.
Human use of invertebrates and their economic-medical importance and role in nature.
Anatomy and morphology of the lower chordates
Anatomy and evolution of selected systems.
Anatomy of selected vertebrate classes.
An overview of selected representatives 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
multimedial presentation	51.0%	50.0%
practical and written colloquia	51.0%	50.0%

Recommended reading

Basic literature

Błaszak C. (red.) 2009. Zoologia, t. 1. Bezkręgowce. PWN, Warszawa.
Błaszak C. (red.) 2011-2012. Zoologia, t. 2, cz. 1, 2. Stawonogi. PWN, Warszawa.
Błaszak C. (red.) 2015. Zoologia, t. 3, cz. 1. Szkarłupnie płazy. PWN, Warszawa.
Błaszak C. (red.) 2020. Zoologia, t. 3, cz. 3. Ssaki. PWN, Warszawa.
Jasiński A. 1973. Zootomia kręgowców. PWN, Warszawa.
Kardong K.V. 1998-2018. Vertebrates. Comparative anatomy, function, evolution. 8th Edition. WCB McGaw-Hill Comp. Inc., New York.
Moraczewski J., Riedel W., Sołtyńska M., Umiński T. 1984. Ćwiczenia z zoologii bezkręgowców. PWN Warszawa.
Szarski H. (red). 1993-2023. Anatomia porównawcza kręgowców. PWN, Warszawa.
Wallace R.L., Taylor W. 1997. Invertebrate zoology. A laboratory manual. Prentice Hall, Upper Saddle River, NJ.

	Supplementary literature	Dogiel W.A. 1986. Zoologia bezkręgowców. PWRiL Warszawa. Gębicki C., Szwedo J. 2000. Owady Polski. Klucz i atlas. Kubajak, Krzeszowice. Grabda E. (red.) 1989. Zoologia bezkręgowce, t. 2-5, PWN, Warszawa. Jura C. 2007. Bezkręgowce. Podstawy morfologii funkcjonalnej, systematyki i filogenezy. PWN, Warszawa. Moore J. 2009. Wprowadzenie do zoologii bezkręgowców. WUW, Warszawa. Schmidt-Rhaesa A., Harzsch S., Purschke G. 2015. Structure and evolution of invertebrate nervous systems. Oxford University Press, Oxford. Szarski H. 2012 (dodruk 2019). Historia zwierząt kręgowych. Wyd. 6. PWN. Warszawa. Tarczyński S. 1984. Zarys parazytologii systematycznej. 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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