

Subject card

Subject name and code	Zoology, PG_00153475						
Field of study	Medical Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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				
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_W03] knows 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_W04] presents 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_W16] explains the theoretical basis of experimental methods and lists 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_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
	practical and written colloquia	51.0%	50.0%
	multimedial presentation	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., Szewdo 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	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	what features are common to all chordates 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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