

Subject card

Subject name and code	Invertebrate taxonomy, PG_00207439						
Field of study	Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject			2028/2029	
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	3		Language of instruction			Polish	
Semester of study	5		ECTS credits			2.0	
Learning profile	academic		Assessment form			credit	
Conducting unit	Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Marta Zakrzewska				
	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		2.0		18.0	50
Subject objectives	A working knowledge of the basic types of invertebrates and their relationships to the environment. Familiarisation with the Code of Zoological Nomenclature. The ability to obtain and prepare material for taxonomic studies. The ability to use and independently compile zoological keys.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[BIOLL3_W03] knows and understands at an advanced level the principles of life functioning at the level of populations, biocenoses and ecosystems, the determinants of biological diversity as well as the mechanisms and molecular basis of the evolution of organisms						
	[BIOLL3_U04] is able to carry out simple research tasks or give expert opinions typical for the biological sciences under the supervision of a scientific supervisor						
	[BIOLL3_K01] is ready to critically evaluate her/his biological knowledge and continuously update and develop it, taking into account scientific advances and the needs of practice						

Subject contents	The role and tasks of systematics. The principles of modern zoological nomenclature. An introduction to the fundamentals of phenetic, cladistic and evolutionary systematics. A review of selected groups of invertebrates, including an examination of their characteristics and systematic position, as well as the relationship between these groups and their habitats. The methods of collection, preparation and identification of material for taxonomic studies.		
Prerequisites and co-requisites	An understanding of the basic taxonomy and systematics of invertebrate animals and a familiarity with the fundamentals of invertebrate zoology are required.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	attendance	85.0%	0.0%
	test II	51.0%	33.33%
	test I	51.0%	33.33%
	presentation/project	51.0%	33.34%
Recommended reading	Basic literature	1. Literature used during the course: Boroń A., Szlachciak J. 2013. Różnorodność i taksonomia zwierząt. Tom 1. Charakterystyka i systematyka zwierząt. Uniwersytet Warmińsko-Mazurski, Olsztyn. Boroń A., Szlachciak J. 2013. Różnorodność i taksonomia zwierząt. Tom 2. Przewodnik terenowy do rozpoznawania wybranych krajowych taksonów zwierząt. Uniwersytet Warmińsko-Mazurski, Olsztyn. Winston, J. E. 1999. Describing species: practical taxonomic procedure for biologists. Columbia University Press, New York. pp. 518. 2. Literature studied independently by the student: Błaszak Cz. [red.] 2009. Zoologia. t.1. Bezkręgowce. PWN, Warszawa. Błaszak Cz. [red.] 2011. Zoologia t.2. cz.1. Stawonogi. Stawonogi. PWN, Warszawa. Błaszak Cz. [red.] 2012. Zoologia t.2. cz.2. Stawonogi. Stawonogi. PWN, Warszawa. Błaszak Cz. [red.] 2015. Zoologia t.3. cz. 1. Szkarłupnie - płazy. PWN, Warszawa.	
	Supplementary literature	Falinowski A. 2007. Techniki zbioru, utrwalania i konserwacji zwierząt. WUW, Warszawa. Giłka W., Zakrzewska M. 2013. A contribution to the systematics of Neotropical <i>Tanytarsus</i> van der Wulp: first descriptions from Ecuador (Diptera: Chironomidae: Tanytarsini). Zootaxa 3619: 453-459. Głowaciński Z. [red.]. 2007. Polska czerwona księga zwierząt. Kręgowce. PWRiL, Warszawa. Jura C. 2005. Bezkręgowce: podstawy morfologii funkcjonalnej, systematyki i filogenezy. Wydawnictwo Naukowe PWN. Kozina P., Izdebska J.N., Kowalczyk R. 2021. The first description of the nymphal stages of <i>Hoplopleura longula</i> (Psocodea: Anoplura: Hoplopleuridae) from the harvest mouse <i>Micromys minutus</i> (Rodentia: Muridae). Biodiversity Data Journal 9: e63747. Mayr E. 1974. Podstawy systematyki zwierząt. PWN, Warszawa. Moraczewski J., Riedel W., Sołyńska M., Umiński T. 1984. Ćwiczenia z zoologii bezkręgowców. PWN, Warszawa.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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