University of Gdańsk

Subject card

Subject name and code	General entomology, PG_00146611		
Field of study	Biology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	postgraduate 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	1.0
Learning profile	academic	Assessment form	
Conducting unit	Pracownia Zoologii Systematycznej -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Wojciech Giłka	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	0.0	0.0	0.0	15

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	15	3.0	7.0	25

Subject objectives

Knowledge of:

- basic functional anatomy and morphology of insects;
- more important taxa;
- mastery of terminology needed when using scientific entomological literature;
- issues of taxonomic evolution and biodiversity of insects.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMU2_K07] the graduate is ready to systematically update biological knowledge and information on its practical applications	systematically updates knowledge of the biology and anatomy of insects and information on their practical applications; systematically update information on the evolution and conservation of insect biodiversity	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report [SK8] observation of student's independent or team work
[BIOLMU2_W01] the graduate knows and understands natural phenomena and processes at different levels of complexity	Can demonstrate the relationship between morphological and anatomical structure insects and the functioning of the organism and the relationship with the environment	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[BIOLMU2_U07] the graduate is able to critically confront biological information from a variety of sources and, on this basis, draw valid conclusions	critically confronts biological information from various sources and draws reasoned conclusions on this basis	[SU1] oral statement/conversation/ discussion
[BIOLMU2_U02] the graduate is able to make proficient use of the scientific literature of the biological speciality studied	Follows current news in entomology	[SU1] oral statement/conversation/ discussion
[BIOLMU2_W05] the graduate knows and understands the dynamic development of the biological sciences and new research directions and disciplines	Recognizes the dynamic development of biological sciences and the emergence of new directions and disciplines of research	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences	has an in-depth knowledge of insects	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report

Subject contents

Classification and evolution of insects.
Names of the more important taxa.
Functional morphology of the head; modifications of the mouth apparatus in relation to the type of food taken.
Functional morphology of the thorax.
Sensory organs.
The digestive and circulatory systems.
Movement of insects (walking, running, crawling, jumping, swimming, flying).
Respiration in terrestrial and aquatic environments.
Insect biodiversity and its conservation.

Prerequisites and co-requisites

Basic knowledge of invertebrate zoology

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
activity during classes	51.0%	20.0%
multimedia presentation made by the student	51.0%	80.0%

Recommended reading

Basic literature	Bej-Bienko G.J. 1976. Zarys entomologii. PWRiL, Warszawa. Blaszak Cz. (red.) 2012. Zoologia. Stawonogi tom 2, część 2, PWN, Warszawa. Beutel R.G. (ed.) 2014. Insect morphology and phylogeny. De Gruyter. Berlin/Boston. Chapman R.F. 2007. The Insects. Structure and function. Cambridge Univ. Press., Cambridge, UK. Grimaldi D., Engel M.S. 2005. Evolution of the insects. Cambridge Univ. Press., Cambridge, UK. Jura C. (red.) 1988. Biologia rozwoju owadów. PWN, Warszawa. Razowski J. 1987. Słownik entomologiczny. PWN, Warszawa. Razowski J. 1996. Słownik morfologii owadów. PWN, Warszawa-Kraków. Szujecki A. 1998. Entomologia leśna. T. I. Wyd. SGGW Warszawa. Wilkaniec B. (red.) 2009. Entomologia. Część 1 - entomologia ogólna. PWRiL Warszawa. Wilkaniec B. (red.) 2011. Entomologia. Część 2 - entomologia szczegółowa. PWRiL Warszawa
Supplementary literature	Giłka W. 2011. Non-biting midges - Chironomidae, tribe Tanytarsini, adult males. Keys for the Identification of Polish Insects. Nr 177 serii kluczy. Część XXVIII, Muchówki - Diptera, zeszyt 14b. Polskie Towarzystwo Entomologiczne. Biologica Silesiae, Wrocław, 95 str. Giłka W. 2005. Morphological deformations of adult non-biting midges (Diptera: Chironomidae) as a result of parasitic activity. Dipteron, Bulletin of the Dipterological Section of the Polish Entomological Society 21: 9-11. Soszyńska-Maj A., Paasivirta L., Giłka W. 2016. Why on the snow? Winter emergence strategies of snow-active Chironomidae (Diptera) in Poland. Insect Science 23(5): 754-770.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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