

Subject card

Subject name and code	Ecology of urban areas, PG_00154438						
Field of study	Biology						
Date of commencement of studies	October 2025		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	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Avian Ecophysiology -> Department of Vertebrate Ecology and Zoology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Agnieszka Ożarowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		2.0		8.0	25
Subject objectives	Gaining knowledge and understanding of the basic factors shaping the functioning of the natural environment in urban areas. Knowledge of species inhabiting urban areas, ability to assess the impact of anthropopressure on species synurbization, ability to valorize natural protection of the urban environment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLL3_W16] The graduate knows and understands the relationship between the achievements of the chosen field of science and discipline of natural sciences and the possibilities of their use in socio-economic life, taking into account the sustainable use of biodiversity		The student explains the relationship between the current state of biological knowledge and its possible use in urban area development.		[SW4] test/exam - oral or written		
	[BIOLL3_U05] The graduate will be able to synthesise data from a variety of sources and draw appropriate conclusions		The student uses the available sources of information to predict the impact of human activities on the development and formation of biocenoses in urban areas.		[SU4] test/exam - oral or written		
	[BIOLL3_K02] The graduate is prepared to critically self-assess their own competences and to update and improve their knowledge and skills		The student uses argumentation to assess the functioning of urban areas and notices its shortcomings.		[SK4] test/exam - oral or written		

Subject contents	History of human settlement and development of urban areas. Abiotic conditions of urban environment (climate, landform, soil, hydrological conditions). Fauna and flora of towns and cities (historical review, current biodiversity). The role of plant communities in the urban ecosystem. The city as an ecosystem (ecological system). The impact of urban conditions on human health. Protecting urban biodiversity. Nature research in urban areas.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written test	51.0%	75.0%
	attendance at classes	85.0%	25.0%
Recommended reading	Basic literature 1. Andrzejewski R., 1980. Fizjografia i ekologiczne kształtowanie środowiska biotycznego na obszarach zurbanizowanych. Człowiek i Środowisko, t.4, nr 4. 2. Luniak M. (red.) 1990. Urban Ecological Studies in Central and Eastern Europe. Ossolineum, Wrocław 3. Przewoźniak M., 2002. Kształtowanie środowiska przyrodniczego miast. Przykłady z regionu gdańskiego. Wyd. Politechniki Gdańskiej, Gdańsk 4. Richling A., Solon J. 1996. Ekologia krajobrazu. Wydawnictwo Naukowe PWN W-wa ss. 318 5. Szponar A. 2003. Fizjografia urbanistyczna. Wydawnictwo Naukowe PWN W-wa ss.260 6. Wolański N. 2006. Ekologia człowieka. Wydawnictwo Naukowe PWN, Warszawa. 7. Zimny H. 2005. Ekologia miasta. W-wa, ss. 233.		

	Supplementary literature	Adams, C.E. and K.J Lindsey 2009. Urban Wildlife Management, 2nd ed. CRC Press, Boca Raton. Alberti, M. 2008. Advances in Urban Ecology: Integrating Humans and Ecological Processes in Urban Ecosystems. Springer, Amsterdam. Carreiro, M.M., Y. Song and J. Wu (eds.) 2007. Ecology, Planning, and Management of Urban Forests: International Perspective. Springer, Amsterdam. Douglas, I., D. Goode, M. Houck and R. Wang 2011. The Routledge Handbook of Urban Ecology. Routledge, New York. Gaston, K.J. (ed.) 2010. Urban Ecology. Cambridge University Press, Cambridge. Gehrt, S.D., Riley, S.P.D, and Cypher, B.L. (eds.) 2010. Urban Carnivores: Ecology, Conflict, and Conservation. Johns Hopkins University Press, Baltimore. Mitchell, J.C., R. E. Jung Brown, B. Bartholomew (eds.) Urban Herpetology. Society for the Study of Amphibians & Reptiles, Salt Lake City. Niemela, J., J. H. Breuste , G.Guntenspergen, N. E. McIntyre, T. Elmqvist, P. James 2011. Urban Ecology: Patterns, Processes, and Applications. Oxford University Press, Oxford. Shulenberger, E., W. Endlicher, M. Alberti, G. Bradley, C. Ryan, C. ZumBrunnen, U. Simon, and J. Marzluff (eds.) 2008. Urban Ecology: An International Perspective on the Interaction Between Humans and Nature. Springer, Amsterdam. Werner, N. and J.G. Kelcey 2010. Urban Biodiversity and Design. John Wiley & Sons, Oxford.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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