

**Subject card**

<b>Subject name and code</b>	Animal ecophysiology, PG_00143383						
<b>Field of study</b>	Natural Resources Conservation						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Ornitologii -> Katedra Ekologii i Zoologii Kręgowców -> Faculty of Biology						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Grzegorz Zaniewicz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information: Discussion Group work Problem-solving Conducting experiments Some classes take place outside UG classrooms in the Tri-City area.						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		3.0		7.0	25
<b>Subject objectives</b>	Acquiring fundamental knowledge in animal ecophysiology. Developing the ability to determine the impact of stress factors on the condition of individuals, as well as understanding daily and annual cyclical metabolic changes in organisms in relation to changes in environmental conditions and habitats.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OZPL3_W09] The graduate possesses an advanced comprehension of the current state of knowledge and the latest trends in biology, as well as their relationship to other natural disciplines	Is familiar with the development and current state of knowledge, as well as the latest trends in animal ecology and physiology, and identifies their connections with other natural science disciplines (O_W09).	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice	Systematically updates their knowledge of natural sciences and understands its practical applications (O_K08).	[SK8] observation of student's independent or team work
	[OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them	Searches for and utilizes available sources of biological information, including electronic sources, and critically analyzes them (O_U03).	[SU5] implementation of a problem task [SU6] demonstration of practical skills
Subject contents	Mechanisms of animal orientation and navigation, energy budget of heterotrophs, indicators of long-term and short-term stress in animals, animal condition indicators, utilization of energy reserves in animals.		
Prerequisites and co-requisites	lack		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		85.0%	20.0%
		51.0%	80.0%
Recommended reading	Basic literature	Causey Whittow G. 2000. Avian Physiology. Academic Press. Ewy Z. 1980. Zarys fizjologii zwierząt. Krzymowski T., Przała J. 2015. Fizjologia Zwierząt. Wydawnictwo Rolnicze i Leśne. Schmidt-Nielsen K. 1992. Fizjologia Zwierząt adaptacja do środowiska. Wydawnictwo Naukowe PWN.	
	Supplementary literature	Hill W., Wyse G. A., Anderson M. 2016. Animal Physiology. Oxford University Press. Randal D., Burggren W., French K. 2002. Eckert Animals physiology: mechanisms and adaptations. W.H. Freeman and Co. Zaniewicz G., Meissner W., Ożarowska A. 2018. Estimation of fat reserves of Robins (Erithacus rubecula) migrating through the southern coast of the Baltic Sea in spring. Ornis Fennica 95.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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