University of Gdańsk

Subject card

Subject name and code	Animal Ecology, PG_00103589						
Field of study	Environmental Protection						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2028/2029			
Education level	Bachelor's studies		Subject group	Optional subject group			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	3		Language of instruction	Polish			
Semester of study	6		ECTS credits	2.0			
Learning profile	academic		Assessment form	credit			
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Mateusz Ciechanowski					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		5.0	15.0	50	
Subject objectives	1. Presentation of range of interests of animal ecology 2. Indication of features characteristic to animal ecology 3. Presentation of animal reactions (physiological, behavioural, demographic) to the environmental factors 4. Discussion on factors and mechanisms regulating population size and distribution of animals 5. Presentation of issues associated with applied ecology (wildlife conservation, exploitation of animal populations, control of invasive and pest species)						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development.	Identifies his/her/their level of knowledge within the field of animal ecology and can deepen it in a focused way, using various sources Identifies significance of obtained knowledge within the field of relationships between natural and anthropogenically changed environment and animal populations for environmental protection and sustainable use of environment	[SK1] oral statement/conversation/ discussion
[OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation.	Describes and properly interprets complex impacts of humans on population size, distribution and behaviour of non-human animals, including economically important species Explains effect of anthropopressure on animals on organism, population and community level	[SW4] test/exam - oral or written
[OŚL3_U04] Uses specialist language in the discussion and properly uses the nomenclature in the field of environmental protection and individual disciplines related to it.	Distinguished basic terminology within the field of animal ecology and describes particular terms	[SU1] oral statement/conversation/ discussion
[OŚL3_W02] Characterises the relationships and relationships between various disciplines of natural sciences and science, uses knowledge of mathematics, physics, chemistry and biology in the description of basic concepts, concepts and principles in environmental protection.	Describes ecological relationships and reactions of animals to factors of physical environment Values significance of empirical data for interpretation of relationships between animal organisms and environment, among individuals within the population and among populations Explains significance of ecological relationships in practice of animal conservation	[SW4] test/exam - oral or written

Subject contents

Range of interests within the discipline of animal ecology. Features characteristic to that discipline within the range of general ecology. Concepts of ecological niche and habitat preferences. Reactions of animals (physiological, behavioural, demographic, evolutionary) to environmental factors, especially temperatures. Climate change ecology. Resources and their use by animals. Foraging methods and strategies. Population ecology: demographics and natural regulation of population size and distribution. Relationships between populations of different species. Trophic cascades, landscape of fear. Factors affecting species diversity. Applied ecology: conservation, exploitation and population control.

Prerequisites and co-requisites

passing the course "General ecology"

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written test	51.0%	100.0%

Recommended reading

Basic literature	Krebs CJ. 2011. Ekologia. Eksperymentalna analiza rozmieszczenia i liczebności. PWN, Warszawa. Begon M., Towsend CR., Harper JL. 2006. Ecology: from individuals to Ecosystems. 4. Ed. Blackwell. Cain ML., Bowman WD., Hacker SD.2008. Ecology. Sinauer. Sunderland Krebs J,R,. Davies N.B. 2001. Wprowadzenie do ekologii behawioralnej. PWN, Warszawa Singer F. D. 2016. Ecology in Action. Camridge Univ. Press. Cambridge.
Supplementary literature	None

	eResources addresses	
Example issues/ example questions/ tasks being completed	The same as above but in English	
Work placement	Not applicable	

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