University of Gdańsk

Subject card

Subject name and code	Biological mechanisms of human behavior - lecture, PG_00133966		
Field of study	Criminology		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study
Mode of study	part-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
Learning profile	academic	Assessment form	exam
Conducting unit	Laboratory of Neurophysiology and Neurochemistry -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Grażyna Jerzemowska	
	Teachers	dr Grażyna Jerzemowska	

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	0.0	60.0	75

Subject objectives

Understanding human behavior in the context of the functioning of the central and peripheral nervous system.

Learning outcomes

Course outcome	Subject outcome	Method of verification

Subject contents

1) Biological mechanisms of human functioning (genetics and behavior; theory of evolution; ethology; eugenics), 2) Structure and development of the nervous system (nerve cells; electrophysiology; CNS: structure of the telencephalon, diencephalon, midbrain, hindbrain; peripheral nervous system), 3) Physiology of sensory receptors, 4) Topographic and functional division of the nervous system, 5) Basic models of the brain-behavior relationship, 6) Hormonal management and the main neurotransmitter systems of the brain and their role in behavior, 6) Selected behavioral disorders and cognitive deficits resulting from abnormal functioning of the CNS, 7) Neuroimaging and contemporary directions of development of neurosciences.

Prerequisites and co-requisites

Knowledge of human biology at the primary school level.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
The exam (test) covers material from lectures; the exam is graded according to a percentage ("Regulations of UG Studies"),	51.0%	100.0%

Recommended reading

Basic literature	Lewandowska D., Orzeł-Gryglewska J. Fizjologia zwierząt i człowieka przewodnik do ćwiczeń, Wydawnictwo UG, 2009
	Kalat J.W. Biologiczne podstawy psychologii, PWN, Warszawa, 2006,

	Supplementary literature	Traczyk W.Z. Fizjologia człowieka w zarysie PZWL, 2024 Górska T., Grabowska A., Zagrodzka J. (red.) Mózg a zachowanie. Wydawnictwo Naukowe PWN, Warszawa, 1997. Narkiewicz O., Moryś J. Neuroanatomia czynnościowa i kliniczna, Wydawnictwo PZWL, 2013
	eResources addresses	
Example issues/ example questions/ tasks being completed	1) Nerve cells (structure and division), 2) Causes and developmental mechanisms of the most common CNS disorders, 3) Mechanisms of peripheral and central regulation of appetitive, defensive, sexual, and parental behaviors.	
Work placement	Not applicable	

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