

Subject card

Subject name and code	Introduction to biochemistry, PG_00147020						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
Education level	undergraduate studies	Subject group				Obligatory subject group 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				2.0	
Learning profile	academic	Assessment form					
Conducting unit	Katedra Biochemii Ogólnej i Medycznej -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Ewa Laskowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		4.0		16.0	50
Subject objectives	The aim of the recitation is to expand students' knowledge of topics discussed during the "Introduction to Biochemistry" lectures, with particular emphasis on the regulation of metabolic pathways, lipid and amino acid metabolism.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[GBEL3_U01] Independently perform practical tasks in the field of biological sciences and related disciplines, formulate research problems, analyze their results, and draw conclusions.		Is able to independently perform practical tasks in the field of biological sciences, formulate research problems, analyze their results and draw conclusions.			[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written	
	[GBEL3_W01] Understanding the structure and properties of basic types of biological macromolecules, molecular mechanisms of metabolic pathways and genetic information flow, as well as sources of genetic variability in organisms and mechanisms of evolution; explaining the rules of inheritance, elucidating differences in the structure and functioning of prokaryotic and eukaryotic cells, and understanding the structure and functional relationships at the cellular and tissue levels.		Describes the structure and properties of basic types of biological macromolecules and basic metabolic pathways.			[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW5] implementation of a problem task	
	[GBEL3_U09] Plan and pursue one's education autonomously and in a focused manner.		Is able to learn in an independent and directed way.			[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written [SU5] implementation of a problem task	
Subject contents	Structure and function of macromolecules (proteins, nucleic acids, carbohydrates, lipids); liver metabolism; acid-base disorders.						

Prerequisites and co-requisites	Knowledge of the structure of basic inorganic and organic compounds, chemical bonds, mechanisms of basic chemical reactions, energetics of chemical reactions, hydrophobic interactions, acids and bases, pH, units of measurement, concentration units of solutions.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Problem tasks solving	0.0%	30.0%
	Students involvement in the discussion	0.0%	30.0%
	Test	51.0%	40.0%
Recommended reading	Basic literature	Berg J. M., Tymoczko J. L., Stryer L. Biochemistry. Freeman WH.	
	Supplementary literature	Publications selected by the lecturer	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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