

**Subject card**

<b>Subject name and code</b>	Introduction to biochemistry, PG_00052575						
<b>Field of study</b>	Wstęp do biochemii (Ćw. audytoryjne)						
<b>Date of commencement of studies</b>	October 2023	<b>Academic year of realisation of subject</b>				2024/2025	
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>					
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	2	<b>Language of instruction</b>				Polish	
<b>Semester of study</b>	3	<b>ECTS credits</b>				2.0	
<b>Learning profile</b>	academic	<b>Assessment form</b>				credit	
<b>Conducting unit</b>	Department of General and Medical Biochemistry -> Faculty of Biology -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		prof. dr hab. Ewa Laskowska				
	<b>Teachers</b>		prof. dr hab. Ewa Laskowska				
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
<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>	30		0.0		0.0	30
<b>Subject objectives</b>	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_K08] The graduate is prepared to: takes responsibility for equipment/materials entrusted to it and respects the work of others	Dotyczy ćwiczeń laboratoryjnych	[SK6] demonstracja umiejętności praktycznych
	[GBEL3_U08] The graduate is able to: study the literature independently and plan your own career path	Is able to study literature on his own	[SU1] wypowiedź ustna/rozmowa/diskusja [SU2] prezentacja/projekt/referat/raport
	[GBEL3_U03] The graduate is able to: use research apparatus and tools and, following the correct sequence of operations, carry out simple physical, biological or chemical observations and measurements in laboratory work in the biological sciences	Dotyczy ćwiczeń laboratoryjnych	[SU6] demonstracja umiejętności praktycznych
	[GBEL3_U01] The graduate is able to: independently perform practical tasks in the biological and related sciences, formulate research problems, analyse 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] wypowiedź ustna/rozmowa/diskusja [SU3] opracowanie tekstowe/praca pisemna [SU5] realizacja zadania problemowego
	[GBEL3_W01] A graduate has an advanced knowledge and understanding of: the structure and properties of the main types of biological macromolecules; the molecular mechanisms of basic metabolic pathways and genetic information flow; the sources of genetic variation in organisms and the mechanisms of evolution. They can explain the principles of inheritance, the differences in structure and function between prokaryotic and eukaryotic cells, as well as the structure and functional relationships at the cellular and tissue levels.	Describes the structure and properties of the basic types of biological macromolecules, and the basic metabolic pathways	[SW4] test/egzamin - ustny lub pisemny [SW1] wypowiedź ustna/rozmowa/diskusja [SW2] prezentacja/projekt/referat/raport
<b>Subject contents</b>	Structure and function of macromolecules (proteins, nucleic acids, carbohydrates, lipids); liver metabolism; acid-base disorders.		
<b>Prerequisites and co-requisites</b>	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.		
<b>Assessment methods and criteria</b>	<b>Subject passing criteria</b>	<b>Passing threshold</b>	<b>Percentage of the final grade</b>
	Test	51.0%	40.0%
	Students involvement in the discussion	0.0%	30.0%
	Problem tasks solving	0.0%	30.0%
<b>Recommended reading</b>	<b>Basic literature</b>	Berg J. M., Tymoczko J. L., Stryer L. Biochemistry. Freeman WH.	
	<b>Supplementary literature</b>	Publications selected by the lecturer	
	<b>eResources addresses</b>		
<b>Example issues/ example questions/ tasks being completed</b>			
<b>Work placement</b>	Not applicable		

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