

Subject card

Subject name and code	General Chemistry, PG_00188254						
Field of study	Chemia ogólna (Ćw.audytoryjne)						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish N/A		
Semester of study	1		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Intermolecular Interactions -> Department of Bioinorganic Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Sandra Brzeska				
	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		5.0		15.0	50
Subject objectives	Consolidate and deepen theoretical knowledge by solving mathematical problems involving stoichiometry, solution concentrations, chemical equilibria, kinetics, and redox reactions.						
	Develop the ability to independently analyze chemical problems, including identifying relevant data, selecting appropriate solution methods, and formulating correct conclusions based on calculations.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKRL3_K02] The graduate is ready to make reliable, objective decisions and take responsibility for the interpretation of research results.	The graduate is able to make reliable and objective decisions in the interpretation of chemical test results and is responsible for his/ her conclusions and actions in the laboratory.	[SK4] test/egzamin - ustny lub pisemny [SK5] realizacja zadania problemowego
	[AKRL3_W03] The graduate knows and understands the structure and chemical properties of compounds relevant in forensic examinations.	The graduate knows and understands the structure and chemical properties of compounds important in forensic research and is able to predict their reactions and behavior in the laboratory environment.	[SW4] test/egzamin - ustny lub pisemny [SW5] realizacja zadania problemowego
	[AKRL3_W01] The graduate knows and understands, at an advanced level, the laws and theories in the field of chemistry, as well as the basics of biology, mathematics and law constituting general knowledge in the scientific disciplines forming the theoretical foundations relevant to the study program.	Graduates understand the laws and theories of general chemistry to a degree that allows them to be applied to the analysis of chemical substances. They also possess the fundamental knowledge of biology, mathematics, and law necessary to interpret experimental results and understand chemical concepts within the context of their program of study.	[SW4] test/egzamin - ustny lub pisemny
Subject contents	Topics covered in the lectures: basic types of inorganic compounds, oxidation and reduction reactions, basic chemical calculations in the field of basic chemical laws and concepts, stoichiometry, solution concentrations, acid-base equilibria in electrolyte solutions.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Two written tests	51.0%	100.0%
Recommended reading	Basic literature	Praca zbiorowa "Obliczenia z chemii ogólnej" - skrypt UG A. Dąbrowska, H. Myszka "Ćwiczenia audytoryjne z chemii ogólnej i nieorganicznej"	
	Supplementary literature	Materials provided by the instructor	
	eResources addresses		
Example issues/ example questions/ tasks being completed	N/A		
Work placement	Not applicable		

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