

Subject card

Subject name and code	General Chemistry, PG_00188255						
Field of study	Chemia ogólna (Ćw.laboratoryjne)						
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		3.0		
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	0.0	45.0	0.0	0.0	45
	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	45		5.0		25.0	75
Subject objectives	Developing safe laboratory work skills, including knowledge of occupational health and safety regulations, proper handling of chemicals, toxic, corrosive, oxidizing, and flammable reagents, and the use of protective equipment.						
	Developing independent experimentation skills, interpreting results, and problem-solving skills during chemical experiments.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKRL3_K06] The graduate is ready to follow occupational health and safety regulations in the laboratory and care for the safety of themselves and others.	The graduate is able to consciously apply the principles of occupational health and safety in a chemical laboratory and takes actions to protect their own safety and the safety of other people while performing exercises and experiments.	[SK6] demonstracja umiejętności praktycznych [SK8] obserwacja samodzielnej lub zespołowej pracy studenta
	[AKRL3_W10] The graduate knows and understands the principles of safe work in chemical and biological laboratories, including procedures for handling hazardous and infectious materials.	The graduate knows and understands the principles of safe work in chemical and biological laboratories, including proper procedures for handling hazardous and infectious materials.	[SW1] wypowiedź ustna/rozmowa/ dyskusja [SW5] realizacja zadania problemowego
	[AKRL3_U04] The graduate is able to select appropriate equipment for experiments and prepare reports and expert opinions based on analytical results in compliance with legal and ethical standards.	The graduate is able to properly select equipment for performing experiments and prepare reports and expert studies based on the results of analyses, while complying with applicable legal regulations and principles of professional ethics.	[SU2] prezentacja/projekt/referat/ raport [SU4] test/egzamin - ustny lub pisemny [SU8] obserwacja samodzielnej lub zespołowej pracy studenta
	[AKRL3_K01] The graduate is ready to critically evaluate their own knowledge, understand its importance for solving cognitive and practical problems, and to seek expert opinions when necessary.	The graduate is able to critically evaluate the knowledge he or she possesses, recognizes its importance in solving cognitive and practical problems, and, if necessary, is able to seek expert opinion.	[SK1] wypowiedź ustna/rozmowa/ dyskusja [SK5] realizacja zadania problemowego
	[AKRL3_U02] The graduate can plan and organize individual and team work and collaborate with others in team projects (including interdisciplinary teams).	The graduate is able to effectively plan and organize his/her own work, as well as work in a team, including interdisciplinary teams, and actively cooperate and communicate with other group members in order to carry out common tasks.	[SU5] realizacja zadania problemowego [SU8] obserwacja samodzielnej lub zespołowej pracy studenta
	[AKRL3_U11] The graduate is able to work effectively in a laboratory team while adhering to professional ethics and organisational rules.	The graduate is able to cooperate in a laboratory team, observing the applicable rules of professional ethics and the principles of proper organization of laboratory work.	[SU8] obserwacja samodzielnej lub zespołowej pracy studenta
Subject contents	Laboratory exercises: basic laboratory work; performing several to a dozen exercises encompassing a set of experiments in the following areas: methods of isolating and purifying substances, specific solutions, basic types of inorganic compounds, kinetics of chemical reactions, chemical equilibrium, electrolytes and nonelectrolytes, dissociation constant and degree, pH, oxidation-reduction reactions, and other activities indicated by the instructor based on the "Ćwiczenia laboratoryjne z chemii ogólnej" Wydawnictwo Uniwersytetu Gdańskiego.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written tests and laboratory reports	51.0%	100.0%
Recommended reading	Basic literature	Praca zbiorowa - Ćwiczenia laboratoryjne z chemii ogólnej. I Część teoretyczna Praca zbiorowa - Ćwiczenia laboratoryjne z chemii ogólnej. II Część doświadczalna	
	Supplementary literature	A. Bielański Chemia ogólna i nieorganiczna L. Jones, P. Atkins Chemia ogólna, PWN 2004	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	N/A	
Work placement	Not applicable		

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