University of Gdańsk

Subject card

Subject name and code	General chemistry, PG_00207388		
Field of study	Biology		
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
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Faculty of Chemistry -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Jolanta Kumirska	
	Teachers	mgr Magdalena Stasiuk mgr Natalia Żukowska	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	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	41.0	75

Subject objectives	Laboratory exercises: Experimental knowledge of selected properties of matter and the operation of the laws of chemistry. Developing the ability to plan, implement and draw conclusions from a scientific experiment. Acquiring the ability to use basic laboratory techniques and safe work with hazardous substances.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLL3_W04] knows and understands at an advanced level the experimental methods and techniques used in biological sciences, as well as the principles of evaluation and analysis of natural processes and phenomena using physical and chemical measurements and IT tools for data processing and interpretation	The student knows and understands experimental methods and the principles of performing and analyzing physical and chemical measurements, and is able to use information technology tools to process and interpret experimental results.	[SW2] presentation/project/paper/ report [SW3] text preparation/written work
[BIOLL3_K02] is ready to take care for her/his own safety and that of others, identifying threats and taking appropriate action, as well as use verified equipment and materials responsibly, ensuring their proper use	The student is prepared to ensure their own safety and the safety of others when conducting chemical experiments, identify hazards and take appropriate action, and use laboratory equipment and materials responsibly.	[SK2] presentation/project/paper/ report [SK3] text preparation/written work [SK8] observation of student's independent or team work
[BIOLL3_U01] is able to use basic research techniques and tools appropriate for the biological sciences and perform physical, chemical and biological observations and measurements in the laboratory and in the field, individually and in a team, while organizing her/his work appropriately and in a maintained way	Student plans, performs and carries out research experiments, organizes and analyzes the experimental results, draws correct conclusions based on them, and presents the experimental results in writing. Student selects and uses laboratory equipment in accordance with its intended purpose. Conducts calculations using the known chemical laws.	[SU2] presentation/project/paper/ report [SU3] text preparation/written work [SU8] observation of student's independent or team work
[BIOLL3_W08] knows the principles of occupational health and safety, intellectual property protection and the basics of copyright law	Student zna zasady bezpieczeństwa i higieny pracy w laboratorium chemicznym oraz podstawowe zasady ochrony własności intelektualnej i prawa autorskiego dotyczące korzystania z materiałów naukowych.	[SW2] presentation/project/paper/ report [SW3] text preparation/written work

Subject contents

Laboratory exercises: Laboratory tasks related to the topic of the lecture.

Prerequisites and co-requisites

lack

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
developing and presenting the results in writing and obtaining partial passes for all experimental tasks	51.0%	20.0%
completing all exercises provided for in the study program	100.0%	0.0%
positive grades in all entrance written tests	51.0%	80.0%

Recommended reading

Basic literature	1. Jones L., Atkins P. 2020. Chemia ogólna. PWN, Warsow 2. Lee J. D. 1994. Zwięzła chemia nieorganiczna. PWN, Warsow 3. Pauling L., Pauling P. 1997. Chemia. PWN, Warsow
Supplementary literature	1. Bielański A. 2012. Podstawy chemii nieorganicznej. Tom 1, 2. PWN, Warsow
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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