

Subject card

Subject name and code	General biology, PG_00053404						
Field of study	Chemistry						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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		exam		
Conducting unit	Laboratory of Geobotanics and Nature Conservation -> Department of Plant Taxonomy and Nature Conservation -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Piotr Rutkowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	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		40.0	75
Subject objectives	Aims of education: • Introduction of basic and key issues of biology Understanding the basics of living organisms and their relationships. • Introduction of basic concepts and definitions of general-physiological necessary for the further learning process. • Familiarize yourself with the most important techniques and research tools in the field of biology necessary to carry out your own research work.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[CHEML3_W01] Enumerates basic laws and theories in chemistry, physics, mathematics and biology.		Student: Knows and understands the basic concepts, laws and definitions on which biology is based, apply and disseminate the principles of interpreting biological phenomena and processes in research work and practical activities,-recognizes research problems with which require the use of advanced research tools.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work [SW5] implementation of a problem task		

Subject contents	The rise and evolution of life. Life in genetic and molecular level. Energetic basics of life processes. Introduction to Cell biology. The systematics of living organisms. The diversity of the living world at the quality and ecosystem level, its threats and conservation methods. Rules for the division of systematic organisms, selected groups of organisms. Introduction to biology development, biochemical and physiological basics of the functioning of organisms. Adaptation of species to different habitats and environmental conditions. Fundamentals of ecology.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	- Futuyma Douglas - Ewolucja - Wydawnictwo Uniwersytetu Warszawskiego 2005 - Jerzy Dzik - Dzieje życia na ziemi, wprowadzenie do paleobiologii - PWN - 2023 - Jerzy Dzik - Biologia czyli sens Życia - Wydawnictwo Uniwersytetu Warszawskiego 2017 - Jerzy Dzik - Ewolucja. Twórcza moc selekcji - Wydawnictwo Uniwersytetu Warszawskiego 2020	
	Supplementary literature	- Allison L. "Podstawy biologii molekularnej" 2009. Wydawnictwo Uniwersytetu Warszawskiego. Berg J., Tymoczko J., Stryer L. "Biochemia" 2007. PWN. - Coyne J. "Ewolucja jest faktem" 2009. Prószyński & S-ka. - Freeland J. "Ekologia molekularna" 2008. Wydawnictwo Naukowe PWN. - Krebs Ch. "Ekologia" 2011. PWN. - Willson E. "Socjologia" 2000. Zysk i S-ka. - Zuk M. "Seks na sześciu nogach" 2012. Prószyński & S-ka.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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