University of Gdańsk

Subject card

Subject name and code	General biology, PG_00053404		
Field of study	Chemistry		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
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	dr hab. Piotr Rutkowski	

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

<table>
<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
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<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td></td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>• 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</td></tr>
<tr><td>Supplementary literature</td><td>• 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. "Socjobilogia" 2000. Zysk i S-ka.
• Zuk M. "Seks na sześciu nogach" 2012. Prószyński & S-ka.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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