



KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez
Unię Europejską w ramach
Europejskiego Funduszu
Społecznego

UNIA EUROPEJSKA
EUROPEJSKI
FUNDUSZ SPOŁECZNY



Course title		ECTS code	
General biology		13.3.0391	
Name of unit administrating study			
Faculty of Biology			
Studies			
faculty	field of study	type	pierwszego stopnia
Wydział Chemii	Chemia	form	stacjonarne
		specjalty	wszystkie
		specialization	wszystkie
Teaching staff			
prof. UG, dr hab. Piotr Rutkowski			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		3	
Lecture		ECTS credits	
The realization of activities		30 h - classes	
classroom instruction		10 h – tutorial classes	
Number of hours		35 h – student’s own work	
Lecture: 30 hours		TOTAL: 75 h - 3 ECTS	
The academic cycle			
2022/2023 winter semester			
Type of course		Language of instruction	
obligatory		polish	
Teaching methods		Form and method of assessment and basic criteria for evaluation or examination requirements	
problem-focused lecture		Final evaluation	
		Examination	
		Assessment methods	
		- written exam with open questions	
		- written exam (test)	
		- written exam (long written answer/problem solving)	
		The basic criteria for evaluation	
		• The exam includes lecture material	
		• A written exam, in the form of a test is evaluated according to the percentage indicator in accordance with the terms and conditions of the UG "	
		• Oral exam-The evaluation shall include the degree of exhaustion of the topic for each of the 3 randomized questions	
Method of verifying required learning outcomes			
Required courses and introductory requirements			
A. Formal requirements			
none			
B. Prerequisites			
none			
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.			

Course 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.

Bibliography of literature

Bibliography of literature

Literature required to pass the course

Alberts B. "Podstawy Biologii Komórki" 1999. PWN.

Allison L. "Podstawy biologii molekularnej" 2009. Wydawnictwo Uniwersytetu Warszawskiego.

Berg J., Tymoczko J., Stryer L. "Biochemia" 2007. PWN.

Combes C. "Ekologia i ewolucja pasożytnictwa" 1999. Wydawnictwo Naukowe PWN.

Coyne J. "Ewolucja jest faktem" 2009. Prószyński & S-ka.

Dzik J. "Dzieje życia na Ziemi" 2008. PWN.

Freeland J. "Ekologia molekularna" 2008. Wydawnictwo Naukowe PWN.

Jurd. "Biologia zwierząt. Krótkie wykłady" 2006. PWN.

Kalata G. "Koln - Dolly była pierwsza" 2000. Prószyński & S-ka.

Krebs Ch. "Ekologia" 2011. PWN.

Mackenzie, Ball, Virdee "Ekologia. Krótkie wykłady" 2007. PWN.

Stinger Ch., McKie R. "Afrykański exodus" 1999. Prószyński & S-ka.

Szwejkowska A., Szwejkowski J. "Botanika T.1,2." 2006. PWN.

Turner, Mc Lennan, Bates, White "Biologia molekularna. Krótkie wykłady" 2007. PWN.

Twyman "Biologia rozwoju. Krótkie wykłady" 2005. PWN.

Willson E. "Socjobiologia" 2000. Zysk i S-ka.

White M., Gribbin J. "Darwin - żywot uczonego" 1998. Prószyński & S-ka.

Zuk M. "Seks na sześciu nogach" 2012. Prószyński & S-ka.

The learning outcomes (for the field of study and specialization)

Knowledge

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.

Skills

Social competence

Contact

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