



**KAPITAŁ LUDZKI**  
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez  
Unię Europejską w ramach  
Europejskiego Funduszu  
Społecznego

**UNIA EUROPEJSKA**  
EUROPEJSKI  
FUNDUSZ SPOŁECZNY



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