

**Subject card**

<b>Subject name and code</b>	Mechanisms of evolution, PG_00132651						
<b>Field of study</b>	Biology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		prof. dr hab. Tadeusz Namiotko				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information: discussion						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM		
	<b>Number of study hours</b>	15	2.0	8.0	25		
<b>Subject objectives</b>	1. To understand the pathways and mechanisms of evolution. 2. Ability to use this knowledge to explain the causes and extent of biodiversity.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[BIOLL3_U07] The graduate should be able to independently search for and use available sources of biological information, including electronic sources		The graduate will find by himself and use reliable sources of information on evolutionary biology, including electronic sources.		[SU1] oral statement/conversation/discussion		
	[BIOLL3_W06] The graduate will know the characteristics, systematics and understand the evolution of selected groups of organisms including molecular basis and basic concepts and mechanisms of evolution		The graduate will describe the basic concepts and mechanisms of evolution and explain the causes of biodiversity using selected examples of plants and animals		[SW1] oral statement/conversation/discussion		
	[BIOLL3_W10] The graduate is familiar with the development and current state of knowledge and the latest trends in biology, as well as their relationship with other natural disciplines		The graduate will be able to assess the development, current state of knowledge and critically evaluate the latest hypotheses of evolutionary biology, explain why it is the central theory of biology and indicate its relationship to other natural sciences.		[SW1] oral statement/conversation/discussion		
<b>Subject contents</b>	The concept of natural selection, genetic drift and sexual selection. Natural selection as a factor responsible for adaptive change. Evolution of quantitative traits. Concepts of species. Adaptive radiations, evolutionary trends and rates of evolutionary change. Evolution of biodiversity, mass extinctions. Selected topics on the major transitions in evolution, key periods in the history of life on Earth and the origin of some higher taxa.						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	conversation/discussion	51.0%	100.0%
Recommended reading	Basic literature	Futuyma D.J., Kirkpatrick M. 2017. Evolution. Oxford Univ. Press.  articles on evolutionary biology (e.g. from current and archive issues of Scientific American and from electronic sources)	
	Supplementary literature	articles on evolutionary biology (e.g. from current and archive issues of Scientific American and from electronic sources)	
	eResources addresses	Adresy na platformie eNauzanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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