University of Gdańsk

Subject card

Subject name and code	Functional anatomy of the vertebrates, PG_00154378		
Field of study	Natural Resources Conservation		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
Education level	undergraduate studies	Subject group	Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	English
Semester of study	6	ECTS credits	2.0
Learning profile	academic	Assessment form	
Conducting unit	Faculty of Biology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Magdalena Remisiewicz	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	0.0	0.0	15

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	15	3.0	32.0	50

Subject objectives

Understanding the relationship between the structure and function of systems and internal organs in vertebrates in the context of adaptation to the environment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OZPL3_U12] The graduate is able to learn independently in a targeted manner	Can use specialized Polish and foreign language terminology in biology in a understandable and accessible way for both specialists and non-specialists	[SU4] test/exam - oral or written
[OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice	Systematic updates knowledge in the field of evolution and anatomy of the Vertebrates and knows its practical application.	[SK1] oral statement/conversation/ discussion [SK4] test/exam - oral or written
[OZPL3_W01] The graduate possesses advanced knowledge and understanding of the structural and functional relationships at the cellular, tissue, organ, and body levels.	Describes the structure and functional relationships at the cellular, tissue, organ and organic levels in the Vertebrates.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them	Independently searches for and uses available sources of biological information, including electronic resources, and critically analyse	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[OZPL3_W04] The graduate possesses advanced knowledge and understanding of the characteristics, systematics, and evolution of selected groups of organisms, as well as the basic concepts and mechanisms of evolution	Presents characteristics, systematics and evolution of the Vertebrates, and describes basic concepts and mechanisms of evolution of the Vertebrates..	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion

<table>
<tr><td>Subject contents</td><td colspan="3">Anatomic adaptations of the locomotoric apparatus in vertebrates to their environment and life mode. Homology of anatomical elements of motoric apparatus and adaptation of their structure to the function in each division of the vertebrates. The functional anatomy of support and locomotion: the integument, the axial skeleton, the appendicular skeleton. Homology of anatomical elements of the locomotoric apparatus and relation between their structure and function in each division of the vertebrates. Oral apparatus and digestive system in vertebrates and their functional adaptation to their feeding habits. Relationship between function and anatomy of the respiratory system with the environment and mode of life in vertebrates, Structure and functional adaptations of the excretory and circulatory systems to the environment and mode of life in vertebrates of different divisions.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">English at level B2.</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Test z pytaniami otwartymi</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">1. Liem K. Bemis W, Walker W. F. Grande L. 2001. Functional Anatomy of the Vertebrates: An Evolutionary Perspective. Thomson Brooks/Cole.
2. Kardong K. V. Vertebrates; comparative anatomy, function, evolution. 2005. McGraw-Hill Science/Engineering/Math
3. Nowakowski J.K., Szulc J., Remisiewicz M. 2014. The further the flight, the longer the wing: relationship between wing length and migratory distance
4. in Old World reed and bush Warblers (Acrocephalidae and Locustellidae). Ornis Fennica 91: 178-186.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">1. Singh B. 2016. Veterinary Anatomy Coloring Book, 2nd Edition. Saunders.
2. Kapit W., Elson L. M. Anatomy Coloring Book. William Morrow and Company.
3. Rambaumniel. 2020. Veterinary Anatomy Coloring Book: Veterinary Physiology Animals Workbook and Coloring. Rambaumniel Publication.</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Anatomic adaptations of the locomotoric apparatus in vertebrates to their environment and life mode. Homology of anatomical elements of motoric apparatus and adaptation of their structure to the function in each division of the vertebrates. The functional anatomy of support and locomotion: the integument, the axial skeleton, the appendicular skeleton. Homology of anatomical elements of the locomotoric apparatus and relation between their structure and function in each division of the vertebrates. Oral apparatus and digestive system in vertebrates and their functional adaptation to their feeding habits. Relationship between function and anatomy of the respiratory system with the environment and mode of life in vertebrates, Structure and functional adaptations of the excretory and circulatory systems to the environment and mode of life in vertebrates of different divisions.</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.