



## Pathophysiology of lower vertebrates and birds

ECTS: 1.00

### SUBJECT MATTER CONTENT

#### LECTURE

Physiology and pathophysiology of selected systems and processes: nervous system and sensory organs, endocrine system, nutrition, digestion and metabolism, circulatory system and blood, respiratory system and respiration, excretory system, reproductive system, integumentary system.

#### CLASSES

Fundamentals of the anatomy and physiology of amphibians, reptiles (turtles, snakes, lizards) and birds. Breathing, blood and blood circulation, thermoregulation.

#### TEACHING OBJECTIVE

Acquainting with the specificity of pathophysiological and physiological processes in amphibians, reptiles and birds. The issues of the specificity of metabolism and detoxification will be discussed, as well as the issues of the specificity of the circulatory, respiratory, digestive, excretory and neurohormonal systems.

#### DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

##### Symbols for outcomes related to the discipline:

R/WA\_P7S+++

##### Symbols for outcomes related to the field of study:

K.1.+ , A.W10. + , B.W10. + , A.U14. + , A.W12. + , A.U16. + , A.W13. + , C.U2. + , A.W5. + , A.U23. + , K.8.+ , A.W4. + , B.W9. + , K.10.+ , B.W13. + , A.W9. + , B.W2. + , B.W3. + , A.W23. + , A.W8. + , B.W1. + , K.2.+ , A.W1. + , B.W5. + , A.W3. + , A.U15. + , A.W20. + , K.4.+ , B.W6. + , K.5+ , B.U20. + , A.U19. + , A.W2. + , A.W11. + , B.W4. + , A.U21. + , C.U3. +

#### LEARNING OUTCOMES:

##### Knowledge:

W1 – knowledge of the specificity of physiological and pathophysiological processes in amphibians, reptiles and birds as well as the reasons for the different course of pathological processes in these groups of animals

W2 – knowledge of where to look for information on the physiology and pathophysiology of amphibians, reptiles and birds

##### Skills:

U1 – the ability to search for knowledge necessary to understand pathological processes in amphibians, reptiles and birds

##### Social competence:

**Legal acts specifying learning outcomes:**  
**682/2020**  
**Disciplines:** Veterinary science  
**Status of the course:** Fakultatywny  
**Group of courses:** B - przedmioty kierunkowe  
**Code:** ISCED 0841  
**Field of study:** Veterinary Medicine  
**Scope of education:**  
**Profile of education:** General academic  
**Form of studies:** full-time  
**Level of studies:** uniform master's studies  
**Year/semester:** 3/6

**Types of classes:** Lecture, Classes  
**Number of hours in semester:** Lecture: 5.00, Classes: 10.00  
**Language of instruction:** Polish  
**Introductory subject:** pathophysiology  
**Prerequisites:** passing pathophysiology

**Name of the organisational unit conducting the course:** Katedra Patofizjologii, Weterynarii Sądowej i Administracji  
**Person responsible for the realization of the course:** prof. dr hab. wet. Krzysztof Wąsowicz  
**e-mail:** wasowicz@uwm.edu.pl

**Additional remarks:**

K1 – providing owners of amphibians, reptiles and birds with the knowledge and information needed for the proper maintenance and prevention of their animals

### **TEACHING FORMS AND METHODS:**

Lecture(W1;):multimedial presentation

Classes(W1;W2;U1;K1;):multimedial presentation

### **FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

Lecture (Colloquium test) - Verification of the achievement of learning outcomes in the scope of the material discussed in the lectures is an integral part of the test conducted as part of the classes, hence the description of the form and conditions for passing the exercises also apply to passing the lectures. -

Classes (Colloquium test) - There is one written test per semester. The test mark is issued on the basis of the arithmetic mean value of the marks obtained for each question. The rounding of the evaluation is done on the basis of the following value ranges: mean  $\geq 4.76$ : very good (5.0); average in the range of 4.26 - 4.75: good plus (4.5); average in the range: 3.76 - 4.25: good (4.0); average in the range of 3.26 - 3.75: sufficient plus (3.5); mean  $\leq 3.25$ : satisfactory (3.0). The student may attempt to correct the test twice. The condition for receiving the final pass in the classes is to obtain a positive mark from the test (including all approaches). In the event of a top-down suspension of classroom classes and the need for distance learning, the methods of verifying the achievement of learning outcomes declared in the syllabus, i.e. the forms of passing the colloquium, may be changed in a manner appropriate to the situation. -

### **BASIC LITERATURE:**

1. Mayer J., Donnelly T.M., *Clinical veterinary advisor - birds and exotics.*, Wyd. Elsevier, R. 2013
2. Helmer P., Whiteside D.P., Lewington J.H., *Clinical anatomy and physiology of exotic species.*, Wyd. Elsevier Saunders, R. 2005

### **SUPPLEMENTARY LITERATURE:**

1. Mitchell M.A., Tully T.N., *Manual of exotic pet practice.*, Wyd. Elsevier Saunders, R. 2009

