



Course Title: **APPLIED ANIMAL PHYSIOLOGY** SMKAE 4A11AN
MSc level, A course, for Agricultural Engineering, and Biotechnology, Erasmus studies

Course-unit Teacher: **Attila Zsarnovszky PhD** associate professor
Teacher: **Annamária Kerti PhD, Csaba Szabó**
Weekly workload: 2 hrs lecture/week and 2 hrs practice/every second week
Department of Animal Phys. and Health, Thursday 8.15 – 11.30
Monday 15.15 – 16.45

Subject outlines for Animal Physiology

w.	date	lecture	don	practice	date	don
1.	Sept. 08.	introduction				
2.	Sept. 15.	The homeostasis	Cs.Sz	Quality control of physiological parameters	Sept. 12-22.	A.K.
3.	Sept. 22.	Blood	Cs.Sz			
4.	Sept. 29.	The processes of digestion	A.K.	Blood parameters	Sept. 26- Oct.06.	Cs.Sz.
5.	Oct. 06.	Energy balance	A.K.			
6.	Oct. 13.	Intermediate metabolism (carbohydrates)	Cs.Sz	Demonstrations of ruminal fermentation	Oct. 10-20.	A.K.
7.	Oct. 20.	Intermediate metabolism (N-containing components) Test	Cs.Sz			
8.	Oct. 27.	Intermediate metabolism (lipids)	A.K.	Measurement of oxygen consumption	Oct. 24- Nov.23..	Cs.Sz.
	Nov. 03.	project week				
9.	Nov. 10.	Endocrinology	A.K.			
10.	Nov. 17.	Reproduction	Cs.Sz	Immunological methods	Nov. 14-24.	Cs.Sz.
11.	Nov. 24.	Egg production	A.K.			
12.	Dec. 01.	Milk production	Cs.Sz	Investigation of egg	Nov.28-Dec. 08.	A.K.
13.	Dec. 08.	Vitamins Test	A.K.			

Suggested reading:

Reece W.O. (2005): Functional Anatomy and Physiology of Domestic Animals (selected readings)
We use the SIU *eLearning* online system for teaching lectures. The web address is: <http://elearning.szie.hu>.

Practical reports have to be written during practices. Empty reports can be downloaded from the eLearning website: <http://elearning.szie.hu/>. These reports will be evaluated (0-5 points) after each practice.

Reading: The lecture materials available on the course website of the eLearning portal.



Assessment:

The assessment has two steps, and a five-graded 100 points evaluation system.

First step: 2 written tests x 35 points = 70 points

6 practical reports x 5 points = 30 points

100 points (required minimum: 51 points),
which will be divided by 2.

The student, who has the min. 51 points and attended all lectures and practices without being absent can get the signature of the course leader. If absence occurs, students have to ask for the course leader's permission to compensate missed lectures/practical work with homework. Without the fulfillment of the first step the student can not pass to the second step.

Second step: writing exam for 50 points (required minimum: 26 points).

The points of the writing exam and the halved points of score gathered during the semester will give the final score. The five grades are 1, 2, 3, 4, 5 according to the scored points of the total 100, listed below in the table:

The student who does not score at least 51 points by the first exam, can repeat the exam twice again.

5 (excellent)	86-100 points
4 (good)	76-85 points
3 (satisfactory)	61-75 points
2 (pass)	51-60 points
1 (fail)	50 points and below

Gödöllő, Sept, 2016.

dr. Attila Zsarnovszky
(course leader)