

## Animal Physiology (I700213)

**Course size** *(nominal values; actual values may depend on programme)*

**Credits 5.0**      **Study time 150 h**      **Contact hrs**      48.0h

**Course offerings and teaching methods in academic year 2022-2023**

|                |       |      |           |       |
|----------------|-------|------|-----------|-------|
| A (semester 1) | Dutch | Gent | practicum | 12.0h |
|                |       |      | seminar   | 12.0h |
|                |       |      | lecture   | 24.0h |

**Lecturers in academic year 2022-2023**

Fremaut, Dirk      LA22      lecturer-in-charge

**Offered in the following programmes in 2022-2023**

|  |              |                 |
|--|--------------|-----------------|
| <a href="#">Bachelor of Science in Bioscience Engineering Technology</a> | <b>crdts</b> | <b>offering</b> |
|  | 5            | A               |

**Teaching languages**

Dutch

**Keywords**

Zootechnics - digestive physiology

**Position of the course**

Given the importance of the livestock sector in the Belgian and European agriculture a good knowledge of the structure and physiology of mammals in the bachelor education is indispensable.

**Contents**

The course covers the main characteristics and properties of the following topics in view of the importance of the later courses: Biological evolution and revolution; Principles of cytology and histology of animal cells, tissues and organs; Detailed description of the musculoskeletal system, nervous system, the muscular system, the circulatory system, the respiratory system, the sight and hearing. In the context of the more practical approach, to each species much attention will be paid to the relationships with the production results, factors influencing animal health, carcass quality, long viability of the animals and meat quality.

**Initial competences**

Competences acquired for "General Zoology: morphology and systematic".  
Knowledge of organic chemistry is recommended.

**Final competences**

- 1 Being able to consider, on a independent basis, common problem cases within the field of animal production and offer possibly solutions. Include: A thorough understanding in animal cells and tissues. A thorough knowledge of the anatomy and physiology of the main farm animals. Being able to form an image from the development of animals. General competence: A systematic knowledge of the core elements of a discipline.
- 2
- 3

**Conditions for credit contract**

Access to this course unit via a credit contract is determined after successful competences assessment

**Conditions for exam contract**

This course unit cannot be taken via an exam contract

### **Teaching methods**

Practicum, Seminar, Lecture

### **Learning materials and price**

Course notes "Physiology of the animal", 367 pages.

Exercise notes "Physiology of the animal"

### **References**

Journals available in library

### **Course content-related study coaching**

Permanent possibility to ask questions after appointment. Rehearsal lesson.

Opportunity to consult books and journals.

### **Assessment moments**

end-of-term and continuous assessment

### **Examination methods in case of periodic assessment during the first examination period**

Written examination

### **Examination methods in case of periodic assessment during the second examination period**

Written examination

### **Examination methods in case of permanent assessment**

Report, Written examination

### **Possibilities of retake in case of permanent assessment**

examination during the second examination period is not possible

### **Extra information on the examination methods**

Theory: written

Exercises: permanent evaluation

### **Calculation of the examination mark**

Theory: 66.7% Exercises: 33.3%

Students need to participate to all exams/assignments to succeed; for the aspects of permanent as well as non-permanent evaluation. The end assessment is a weighted average of the of the two subscores: 66.7% oral exam, 33.3% personal work (exercises).

If a subscore is less than 8/20 (not rounded-off), it is not possible to pass this course. In this case, if the weighted score is 10 or more, the final score will be 9/20.