

## Reproductive Physiology of Animals (I700042)

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

**Credits 4.0**

**Study time 120 h**

**Contact hrs**

36.0h

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

A (semester 2)

Dutch

Gent

seminar: coached exercises

8.0h

excursion

4.0h

lecture

24.0h

**Lecturers in academic year 2022-2023**

Fremaut, Dirk

LA22

lecturer-in-charge

Hostens, Miel

LA22

co-lecturer

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

**crdts**

**offering**

[Bachelor of Science in Bioscience Engineering Technology](#)

4

A

[Linking Course Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture \(main subject Plant and Animal Production\)](#)

4

A

[Preparatory Course Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture \(main subject Plant and Animal Production\)](#)

4

A

**Teaching languages**

Dutch

**Keywords**

Zootechnics, reproductive physiology in animals, livestock

**Position of the course**

Acquire a profound physiological knowledge of live-processes of the animal so that the student will be able to develop problem solving and scientifically well-founded production technics, which are economically and ecologically justified and in accordance with the consumer's demands.

**Contents**

Anatomy and physiology of the reproduction; zootechnical, practical and economical consequences; factors affecting milk production and milk composition. Production characteristics in pig production, measures to improve the fertility of the sow (oestrus and ovulation, gestations and conception, parturition and litter size). Production characteristics in cattle, measures to improve the fertility of the cow (including embryo transfer).

**Initial competences**

Competences acquired for 'general zoology', 'construction and physiology of the animal' and 'biochemistry'.

**Final competences**

- 1 Being capable to develop problem solving and scientifically based production technics, which are economically and ecologically justified and in accordance with the consumer's demands.
- 2 Being able to deal in a scientifically responsible way with the hormonal processes which regulate the growth and reproduction of animals.

- 3 Having knowledge and understanding of both the anatomical and physiological

processes that directly or indirectly regulate reproduction in farm animals.

4 Be able to advise preventive actions to reduce or prevent disorders of the reproductive system or the physiology of it

5 **General Competence:** To be able to evaluate scientific issues related to key physiological processes within an organism.

#### **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**

Excursion, Lecture, Project, Seminar: coached exercises

#### **Learning materials and price**

Course "Reproductive physiology in animals" - 330 pages

#### **References**

Journals available in library.

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

Permanent opportunity to ask questions

#### **Assessment moments**

end-of-term and continuous assessment

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

Oral examination

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

Oral examination

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

Report

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

examination during the second examination period is not possible

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

Theory: Oral examination with written preparation

Exercises and excursions: reports

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

Theory: 80 %

Exercises: 20 %

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: 80% oral exam, 20% 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.