

## Nutrition of Pigs (I700263)

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

**Credits** 3.0

**Study time** 90 h

### Course offerings in academic year 2024-2025

A (semester 1)

Dutch

Gent

### Lecturers in academic year 2024-2025

Ingels, Katrijn

LA22

staff member

Degroote, Jeroen

LA22

lecturer-in-charge

### Offered in the following programmes in 2024-2025

Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture  
(main subject Plant and Animal Production)

**crdts**

3

**offering**

A

### Teaching languages

Dutch

### Keywords

Nutrition, pigs, additives, rations

### Position of the course

The student must be able to formulate a scientific based nutrition for pigs, based on a profound physiological knowledge of pigs in the different production-phases. Hereby he/she has to take into account the involved economical, zoo technical and ecological parameters and the consumer's demands for the quality of animal end products. Together with the dairy cattle industry, the pig production is the most important for the Belgian agriculture.

### Contents

physiological aspects of the feed

- Feed valuation systems as well as the most important feedstuffs
- Theoretical requirements for energy, protein, minerals, vitamins and water of sows in relation to zoo technical and environmental factors.
- Practical nutrition in sows that is zoo technically, economically, ecologically and sanitarly justified
- Theoretical needs for energy, protein, minerals, vitamins and water for piglets and meat pigs in relation to zoo technical and environmental factors.
- Practical piglet and slaughter pig feed that is zoo technically, economically, ecologically and sanitarly justified
- International context of pig nutrition

### Initial competences

Acquired competences for "digestive physiology" and "nutrition"

### Final competences

- 1 Being able to feed pigs in an appropriate way, with respect to the environment and according to the rules of food safety and the sustainability of intensive agriculture.

General Competence:

An advanced understanding and insight into the scientific-disciplinary knowledge specific to a particular domain of the sciences;  
Thorough knowledge of feed standards and feedingstuffs.

**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**

Seminar, Excursion, Lecture

**Study material**

Type: Slides

Name: ppt slides

Indicative price: Free or paid by faculty

Optional: no

Language : Dutch

Number of Slides : 200

Oldest Usable Edition : 2023

Available on Ufora : Yes

Online Available : No

Available in the Library : No

Available through Student Association : No

Type: Reader

Name: course notes

Indicative price: Free or paid by faculty

Optional: no

Language : Dutch

Number of Pages : 200

Oldest Usable Edition : 2023

Available on Ufora : Yes

Online Available : No

Available in the Library : No

Available through Student Association : No

Type: Software

Name: Bestmix

Indicative price: Free or paid by faculty

Optional: no

Available on Athena : No

Online Available : Yes

Available in the Library : No

Available through Student Association : No

Usability and Lifetime within the Course Unit : intensive

Usability and Lifetime within the Study Programme : one-time

Usability and Lifetime after the Study Programme : occasionally

**References****Course content-related study coaching**

Permanent possibility to ask questions

**Assessment moments**

end-of-term assessment

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

Oral assessment

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

Oral assessment

**Examination methods in case of permanent assessment****Possibilities of retake in case of permanent assessment**

not applicable

**Extra information on the examination methods**

Oral examination with written preparation

### **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.