

## Poultry Science and Nutrition (I700261)

**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 2) Dutch Gent

**Lecturers in academic year 2024-2025**

**Offered in the following programmes in 2024-2025** **crdts** **offering**

### Teaching languages

Dutch

### Keywords

Poultry, poultry nutrition, poultry meat, eggs, hatchery

### Position of the course

Relying on a thorough physiological knowledge of poultry in the various stages of production (rearing, laying period, meat production, breeding) being able to formulate advices on nutrition and management on a scientifically based way, that takes into account these parameters in an economically, zootechnical, ecological and labour responsible manner and is in line with the requirements set by the consumers placed on the quality of the end products (meat and eggs).

### Contents

This course is oriented to increase knowledge of the production of poultry meat and eggs, with particular focus on chicken.

The course deals with following topics:

- Introduction: overview poultry production and challenges
- Layers: physiology, egg production and management
- Broilers: rearing and management
- Incubation and hatchery
- Nutrition of pullets and layers
- Nutrition of broilers
- Poultry meat and eggs: processing and quality traits
- Poultry diseases and datamanagement
- Housing

Exercises comprise formulation of feeds by linear programming, elaborating on a case of a current issue in poultry production, and various visit to pullet farms, layer farms, broiler farms, hatchery, and producer of equipment for water- and feed delivery.

### Initial competences

Competences acquired from "digestive physiology" and "reproductive physiology of animals" and "nutrition".

### Final competences

- 1 Able to support as manager/adviser to the field of poultry production (broilers or layers).
- 2 In depth knowledge of current hatchery techniques and quality of day-old chickens
- 3 The student is capable to formulate independently recommendations to optimize litter quality and gut health in broiler chickens
- 4 The student has in depth insights in pro and cons of different housing systems for layers
- 5 Able to evaluate farm systems in terms of environmental impact, sustainability, and animal welfare

- 6 Having extensive and applicable knowledge of the nutrition of poultry (layers and broilers)
- 7 Able to formulate and/or evaluate poultry feeds, both regarding nutritional and ingredient composition

**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**

Group work, Excursion, Lecture

**Study material**

None

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

Permanent possibility for questions.

**Assessment moments**

end-of-term and continuous assessment

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

Written assessment with multiple-choice questions, Written assessment with open-ended questions

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

Written assessment with multiple-choice questions, Written assessment with open-ended questions

**Examination methods in case of permanent assessment**

Assignment

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

not applicable

**Extra information on the examination methods**

Oral examination partly with closed book (open questions and multiple choice) and partly open book (open questions) and questions related to excursions (multiple choice)

**Calculation of the examination mark**

Theory: 80%

Exercises (case study + questions related to excursions): 20%