GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2024-2025

Integrated Exercises: Crops, Animals and Agricultural Farm (I700260)

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 (Year)	Dutch	Gent

Lecturers in academic year 2024-2025

Ingels, Katrijn	LA22	staff member
Degroote, Jeroen	LA22	lecturer-in-charge
Derycke, Veerle	LA21	co-lecturer

Offered in the following programmes in 2024-2025	crdts	offering
Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Plant and Animal Production)	3	A

Teaching languages

Dutch

Keywords

Livestock, arable farming, farm management, sustainability

Position of the course

This course unit is part of the pursuit of multidisciplinary thinking, knowledge integration and internationalisation with a focus on animal and plant production. By integrating animal and plant production, we want to evolve towards a more sustainable agriculture, e.g. by better closing mineral and carbon cycles and better coordinating local feed production with animal production. The course is focused on practice and consists of practicals and farm visits preceded by short introductions.

Contents

Practical sessions on the following topics will be organised:

1 Company visits integrating animal and plant production; circular agriculture, short supply chains, mineral cycles, animal welfare, innovation, etc.
2 Interactive lectures on topical agricultural themes (e.g. climate change and consequences for agricultural production, financial sustainability of farms, environmental aspects, water management on farms, etc.). One of the lectures will take place within the framework of internalisation@home.
3 International study trip. If, for special reason, it is not possible to participate to this study trip, a replacement assignment will be provided.

Initial competences

Basic knowledge of plant and animal production; students must have successfully completed the following course units: Phytotechnology and ecophysiology, Crop protection, Plant breeding, Digestive physiology, Reproductive physiology

Final competences

1 To be able to critically evaluate production preocesses and lecures and check them on their sustainability
2 To be able to recognise company/farm problems and suggest suitable solutions.
3 To be able to interpret and process agricultural themes into a report
4 To be able to develop an international vision about agriculture and horticulture

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, Peer teaching

Extra information on the teaching methods

Introductory integration seminars are organized, in which students are expected to actively contribute to discussions. In addition, students work in groups on a specific theme. This involves collecting and analyzing information related to the companies visited and the study trip, and contextualizing these findings within an international framework. These activities culminate in a scientific report per group. The research findings are then shared in one presentation per group, employing peer-teaching methods. Additionally, one joint video report of the study trip is produced.

Study material

Type: Slides

Name: ppt slides integration seminars
Indicative price: Free or paid by faculty
Optional: no
Language : English
Number of Slides : 100
Available on Ufora : Yes
Online Available : No
Available in the Library : No
Available through Student Association : No

Type: Excursion

Name: Visits to farms and businesses within the agriculture sector.
Indicative price: Free or paid by faculty
Optional: no

Type: Excursion

Name: study trip
Indicative price: € 1,900
Optional: no
Additional information: 14-day study trip to California: airplane tickets, transport, meals, and accommodations

References

Scientific literature and reports (e.g. from VLM, agricultural department, FAO rapporten www.fao.org)

Course content-related study coaching

Introduction course and permanent possibility to ask questions.

Assessment moments

end-of-term and continuous assessment

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

Written assessment

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

Written assessment

Examination methods in case of permanent assessment

Participation, Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is not possible

Calculation of the examination mark

10 % evaluation on active participation and attitude during excursions, study trip and seminars
70 % on report
20 % on written exam
Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner (ie if mathematically the final score is 10/20 or more, then this score becomes 9/20).