



Animal Physiology; of de eindcompetenties werden op een andere manier verworven.

### **Eindcompetenties**

- 1 Having profound knowledge in determination of nutrient content and evaluation.
- 2 Animal species specific requirements and their integration in energy and protein evaluation systems are known.
- 3 Formulation of diets based on requirements according to the production stage and level.
- 4 Application of linear programming to formulate diets.
- 5 Critically evaluate current feed evaluation systems and new developments.
- 6 Profound insight in the origin of metabolic disorders and the functions of non-nutritive feed additives.
- 7 Relate nutritional composition to animal responses and vice versa.
- 8 Relate nutrition to emissions towards the environment, animal health and animal welfare.

### **Creditcontractvoorwaarde**

Toelating tot dit opleidingsonderdeel via creditcontract is mogelijk mits gunstige beoordeling van de competenties

### **Examencontractvoorwaarde**

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

### **Didactische werkvormen**

Begeleide zelfstudie, excursie, hoorcollege, integratieseminarie, practicum, werkcollege: geleide oefeningen, werkcollege: PC-klasoefeningen

### **Toelichtingen bij de didactische werkvormen**

Theory: oral lectures ('hoorcollege')

Feedstuff characteristics: personal collection of data for dairy cattle, gestating & lactating sows, piglets, broilers & laying hens ('begeleide zelfstudie') + discussion sessions & feedback on personally collected data

Exercises: practical exercise in relation to feed evaluation, calculations in relation to energy and protein evaluation system & diet formulation (personal preparation ('zelfstandig werk') - preparation of the exercises + discussion sessions ('geleide oefeningen')), practical on farm evaluation of nutrition and production characteristics, pilot compound feed installation & premix company (excursions), compound feed formulation based on linear programming ('PC-klasoefeningen'), interactive discussion on sustainable diets with stakeholders

### **Leermateriaal**

Course material is available. Geraamde totaalprijs: 20 EUR

Optional excursion to feed design lab (additional costs - to be determined)

### **Referenties**

cfr. extensive list of references in the course material

### **Vakinhoudelijke studiebegeleiding**

During the contact hours, the different topics are discussed under supervision of the lecturer. Exercises are prepared by the students based on guidelines provided by the lecturer.

### **Evaluatiemomenten**

periodegebonden en niet-periodegebonden evaluatie

### **Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode**

Schriftelijk examen met open vragen, mondeling examen

### **Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode**

Schriftelijk examen met open vragen, mondeling examen

### **Evaluatievormen bij niet-periodegebonden evaluatie**

Mondeling examen, participatie, verslag

### **Tweede examenkans in geval van niet-periodegebonden evaluatie**

Examen in de tweede examenperiode is enkel mogelijk in gewijzigde vorm

### **Toelichtingen bij de evaluatievormen**

Theory: period aligned evaluation

Exercises: non-period aligned evaluation

Possibility for period aligned evaluation of exercises (agreement between lecturer and student).

Exercises: assessment of cooperation and interaction during exercises and exercise preparation reports

**Eindscoreberekening**

8/20 - non-period aligned evaluation

12/20 - period aligned evaluation