

Course: Production Biology (HV0170) 2021

Grade criteria* and types of examination for the learning objectives of the course

Grade and grade criteria	5				
	4				
	3	The student can explain the anatomy and physiology of bone, muscle and adipose tissue of chicken and mammals, the reproductive tract of the hen bird and the mammary gland of mammals.	The student can explain the physiology and behaviour of milk and egg production and body and fur growth and work in mammals, fish and insects.	The student can explain the importance of genotype for production of meat, milk, eggs, fur and work.	The student can explain how quality, processability and shelf life of eggs, meat, fur and milk and the ability to work is affected by feeding and management routines.
Learning objective	1. Explain the anatomy and physiology of bone, muscle and adipose tissue of chicken and mammals, the reproductive tract of the hen bird and the mammary gland of mammals.	2. Explain the physiology and behaviour of milk production in mammals and egg production in hen birds, growth of body and fur in chicken, mammals, fish and insects and of work in mammals	3. Explain the importance of genotype for production of meat, milk, eggs, fur and work	4. Explain how quality, processability and shelf life of eggs, meat, fur and milk and the ability to work is affected by feeding and management routines.	5. Describe the interaction between human, animal and technology regarding egg production, growth, milk production and work.
Type of examination	Open book exam	Open book exam	Open book exam	Open book exam	Open book exam

* The criteria for grades 4 and 5 indicate what should be fulfilled in addition to the criteria for the underlying grade level(s)

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Grade and grade criteria	5			The student shows ability to analyse methodology in scientific papers relevant to the course, within production biology.	The student uses relevant scientific literature to support his/her suggestions regarding production systems. The student identifies risks for health problems that are common in production systems with egg producing hens, growing chicken, pigs, sheep, bulls, heifers, horses, fish and insects, lactating animals and working animals.
	4				The student can, on the basis of knowledge in production biology and understanding of the effects of production on animal health and welfare, productivity, the environment and climate and of ergonomics assess, in detail evaluate and suggest production systems for milk, beef and pork.
	3	The student can describe the most common pathogens and health problems that affect the egg producing hen, growing chicken, pigs, sheep, bulls, heifers and horses, fish and insects, lactating animals and working animals.	The student can describe and suggest methods used to determine quality and shelf life of eggs, meat and milk and factors that affect the quality of work and how work quality can be assessed.	The student can discuss and critically analyse scientific publications in areas relating to the course under supervision and extract new knowledge from scientific publications in this field.	The student can, on the basis of knowledge in production biology and understanding of the effects of production on animal health and welfare, productivity, the environment and climate and of ergonomics assess, evaluate and suggest production systems for eggs, fur and work.
Learning objective	6. Describe the most common pathogens and health problems that affect the egg producing hen, growing chicken, pigs, sheep, bulls, heifers and horses, fish and insects, lactating animals and working animals.	7. Describe and suggest different methods used to determine quality and shelf life of eggs, meat and milk and factors that affect the quality of work and how work quality can be assessed.	8. Discuss and critically analyse scientific publications in areas relating to the course under supervision and extract new knowledge from scientific publications in this field.	9. On the basis of knowledge in production biology and understanding of the effects of production on animal health and welfare, productivity, the environment and climate and of ergonomics assess, evaluate and suggest production systems for eggs, fur and work.	
Type of examination	Open book exam	Open book exam Literature seminars	Literature seminars	Open book exam	

* The criteria for grades 4 and 5 indicate what should be fulfilled in addition to the criteria for the underlying grade level(s)

EXAMINATIONS IN THE COURSE:

1. Examination of seminars

The course includes literature seminars that are included in the different themes and a final literature assignment in the end of the course. The seminars include a written summary and an oral presentation. The literature assignment in the beginning of the course and the thematic seminars are graded pass/fail while the final literature assignment is graded 3 or 4/5.

3. Open book exam

The final exam is a written open book exam. All literature and notes can be used during the exam but *not phones or any other means of contacts with other people or use of the Internet.*

THE COURSE IS REPORTED IN THREE PARTS OF 5 ECTS CREDITS:

- 1) Anatomy, eggs and milk (pass/fail)
- 2) Meat, fish, insects, wool and work (pass/fail)
- 3) Synthesis (pass/fail)

The final course grade is given based on the final seminar and final exam.

- Grade 5 on learning objective 5 and grade 4/5 on learning objective 8 = grade 5 on the course.
- Grade 4 on learning objective 5 and grade 4/5 on learning objective 8 = grade 5 on the course.