

1. OVERVIEW

Subject Area	Animal Welfare and Breeds
Degree	Bachelor's Degree in Veterinary Medicine
School/Faculty	Biomedical and Health Sciences
Year	Second
ECTS	6 ECTS
Type	Core
Language(s)	Spanish
Delivery Mode	On-campus
Semester	Second semester

2. INTRODUCTION

The aim of this subject area is to learn about the major breeds of domestic animals of veterinary interest, their natural behaviour and that of wild animals in captivity. We will also look at the basis for the scientific study of these animals, in order to facilitate their relationship with humans and their adaptation to various handling and production systems, thus ensuring their welfare. Furthermore, once we have come to know their natural behaviour, we will study behavioural disorders and their assessment process, taking into account key factors such as stress and pain, and how they impact processes such as euthanasia or the transport and slaughter of animals. Finally, we will study the regulations on animal welfare and animal research.

3. SKILLS AND LEARNING OUTCOMES

Basic skills (CB, by their acronym in Spanish):

- CB1. Show knowledge and understanding of an area of study, building on the foundation of general secondary school education. At this level, and perhaps with the support of more advanced textbooks, students should be able to demonstrate awareness of the latest developments in their field of study (Knowledge Acquisition).
- CB5. To develop the learning skills needed to undertake further studies with a high degree of autonomy (Autonomous Learning).

Cross-curricular skills (CT, by their acronym in Spanish):

- CT1. Ethical values. Ability to think and act in line with universal principles based on the value of individuals in order to support their full development, which involves a commitment to certain social values.
- CT9. Global mentality. Demonstrate interest in and understanding of other customs and cultures, acknowledge your own biases and work effectively as part of a global community.

General skills (CG, by their acronym in Spanish):

- CG3. Excellent grasp of the controlled breeding, handling, welfare, reproduction, protection, and feeding of animals, as well as the improvement of their yields.
- CG5. Apply the legal, regulatory and administrative provisions established in all areas of the veterinary/public health profession, understanding the ethical implications of health in a changing global context.
- CG6. Carry out professional practice in connection with other health professionals, develop teamwork skills and ensure efficient use of resources and efficient quality management.

Specific skills (CE, by their acronym in Spanish):

- CE2. Knowledge and application of the principles and foundations of:
 - i) breed and production characteristics, with special regard to handling (RA1, RA2)
 - j) animal behaviour and the domestication process (RA1, RA2, RA3)
- CE4. Knowledge and application of the principles and foundations of:
 - c) animal welfare and protection (RA1, RA2, RA3, RA4, RA5)

Learning outcomes (RA, by their acronym in Spanish):

- RA 1. Identify the characteristics of the major breeds and species of veterinary interest.
- RA 2. Analyse the evolution, adaptation, instinctive behaviour, territoriality and social structure of the major breeds and species of veterinary interest.
- RA 3. Assess animal behaviour as an indicator of the degree of welfare of the major animal species of veterinary interest.
- RA 4. Refer to the concept of animal welfare and welfare assessment strategies in all professional veterinary activities.
- RA 5. Identify signs of stress and their impact on animal health.

The following table shows how the skills developed in the subject area relate to the intended learning outcomes:

Skills (CE)	Learning outcomes (RA, by their acronym in Spanish)
CE2i	RA1, RA2
CE2j	RA1, RA2, RA3
CE4c	RA1, RA2, RA3, RA4, RA5

4. CONTENT

- The Study of Animal Breeds and Their Classification. Introduction to Baron's Systematic Classification. Major Companion and Production Breeds.
- Animal Behaviour: General Concept and Scientific Study. Behavioural Management and Ontogeny. Domestication.
- Behavioural Systems and Patterns: Thermoregulation; Feeding; Grooming; Social, Sexual and Maternal Behaviour, according to Aptitude and Species.
- Introduction to Animal Welfare and its Relationship with Health and Behaviour. Assessment of Animal Welfare.
- Types of Abnormal Behaviour. Emotions, Pain and Stress.
- Welfare Issues According to Production Type and Behaviour
- Welfare in:
 - Painful interventions
 - Livestock markets
 - Transit and slaughter

- Euthanasia
 - Catastrophes and emergencies
 - Zoo, circus and other kinds of performance animals
- Regulation of animal welfare for companion animals, livestock, animals in conservation and test animals

5. TEACHING/LEARNING METHODS (MD, by their Spanish acronym)

The types of teaching/learning methods are as follows:

- MD 1: Lecture / Web conference
- MD 2: Case studies
- MD 5: Collaborative learning
- MD 6: Learning based on workshop/lab teaching
- MD 7: Simulation environments

6. LEARNING ACTIVITIES

The types of learning activities, plus the amount of time spent on each activity, are as follows:

On campus:

Learning activity	Number of total hours	Number of hours on campus
AF1: Master lectures	35	35
AF2: Group activities	12	3
AF3: Case studies and problem-solving	6	3
AF4: Oral presentations	2	2
AF5: Independent working	68	0
AF6: Workshops and/or labs and/or simulation	10	10
AF8: Drafting reports or concept maps	5	0
AF10: Tutorials	10	5
AF11: Assessment tests	2	2
TOTAL	150	60h

7. ASSESSMENT

The assessment methods, plus their weighting in the final grade for the course, are as follows:

On campus:

Assessment system	Weighting
SE1: On-campus theory exams	60%
SE2: Reports and Documents	10%
SE3: Skills and abilities assessment (practical)	10%
SE4: Case study/problem	10%
SE5: Oral presentations	10%

On the Virtual Campus, when you open the subject area, you can see all the details of your assessment tasks, including the deadlines and assessment procedures for each task.

Lab work, synchronous workshops, complex simulations, case studies and theory exams take place on campus and attendance is compulsory.

At the professor's discretion, an oral exam may be arranged to make up for the justified absence of an exam.

8. BIBLIOGRAPHY

The works of reference for following up this subject area are:

- Atlas mundial de etnología zootécnica. C. Sañudo Astiz (2011). Zaragoza. Grupo Asís Biomédica, S.L
- Etología veterinaria. X. Manteca Vilanova (2009). Barcelona. Multimédica ediciones.
- Etología de los animales domésticos. P. Jensen (2004). Zaragoza. Editorial Acribia, S.A.
- Compendio de las principales razas animales. Revista de la Facultad de Medicina Veterinaria y de Zootecnia; Vol. 5 Núm. 47-48 (1933): NUMERO ESPECIAL SOBRE RAZAS; 773-850, [s. l.], 1933.
- El comportamiento animal / P. J. B. Slater ; traducción de Herminia Bevia y Antonio Resines ; revisión científica de Diego Gil (2000). Madrid: Cambridge University Press
- Cambios de comportamiento asociados al dolor en animales de compañía. T. Camps Morey y M. Amat Grau (2013). Zaragoza. Grupo Asís Biomédica, S.L
- Zoo animal welfare. Concepts and indicators. X. Manteca Vilanova (2015). Barcelona. Multimédica ediciones.
- Manejo libre de estrés en la clínica veterinaria. R. Álvarez Bueno y G. Quintana Díez (2019). Zaragoza. Grupo Asís Biomédica, S.L
- Bienestar animal. X. Manteca Vilanova (2020). Barcelona. Multimédica ediciones
- Bienestar animal. Una visión global en Iberoamérica. D. Mota Rojas, A. Velarde Calvo, S. Maris Huertas y M. Nelly Cajiao (2016). Barcelona. Elsevier España S.L.U
- Cow confort. El bienestar de la vaca lechera. A. Callejo Ramos (2009). Zaragoza. Grupo Asís Biomédica, S.L
- Introducción a la ecología comportamental. Un manual para el estudio del comportamiento animal. K. Del-Klaro (2010). Valencia. Tundra Ediciones
- Transporte y bienestar animal. Un enfoque integrador