

Course Unit	Ethology and Animal Welfare		Field of study	Veterinary Sciences	
Bachelor in	Zootechnical Engineering		School	School of Agriculture	
Academic Year	2022/2023	Year of study	2	Level	1-2
Type	Semestral	Semester	1	ECTS credits	5.0
Code	9129-312-2103-00-22				
Workload (hours)	135	Contact hours	T -	TP 45	PL -
			TC -	S -	E -
			OT 20	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Adriano Geraldo, Ramiro Corujeira Valentim

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Learn the fundamentals of animal behavior and welfare vital both to Animal Production and Veterinary Clinic.
2. Be able to differentiate normal from anomalous behaviors. Identify and interpret different signs of distress, understanding the underlying physiological mechanisms and possible consequences.
3. Be aware of professional risks related to animal behavior and how to prevent them.
4. Basic knowledges of dog training.
5. Be familiar with the European animal welfare laws and understand their impact in Portuguese Animal Production and Veterinary Clinic.

### Prerequisites

Before the course unit the learner is expected to be able to:  
Not applicable.

### Course contents

Principles and fundaments of ethology. Basic processes in animal behavior. Organization of the behavior in the individual animal. Animal domestication. Social organisation. Exploration, feed, excretion, aggression, sexual, parental and sleep behaviors. Farm and small animal normal behavior. Anomalous behavior and diseases. Animal contention and handling techniques. Animal welfare: definitions and concepts. Legislation and ethics. Dog training basic techniques.

### Course contents (extended version)

1. Principles and Fundaments of Ethology
  - Concept of Ethology
  - Animal Behavior Study
  - Study Areas in Ethology
  - Value of Ethology Information
2. Basic Processes in Animal Behavior
  - Genetic
  - Physiologic
3. Nature of Behavior
  - Instinct
  - Impulse
  - Learned
4. Behavior Events
  - Behavior Model
  - Behavior System
5. Social Organisation
  - Introduction
  - Social Ranks
  - Communication
6. Behaviors
  - Exploratory
  - Feed
  - Aggression
  - Sexual and Parental
  - Sleep
7. Animal Domestication
  - Definition
  - Origins
  - Domestication Promoting Traits
  - Behavior Changes Related to Domestication
8. Anomalous Behavior
  - Stress
  - Behavior Diseases
9. Animal Welfare
  - Concepts
  - Assessment
  - Legislation and Ethics
10. Contention, Handling and Basic Training Techniques (PRACTICAL SESSIONS)

### Recommended reading

1. ALCOCK, J. , 2013. Animal behavior: An evolutionary approach. 10ª Edição, Sinauer Associates, Inc. , Sunderland, EUA, 522 pp.
2. HAMMERLE, M. et al. 2015. 2015 AAHA Canine and Feline Behavior Management Guidelines. J Am Anim Hosp Assoc, 51, 205-221.
3. WEISS, E. , MOHAN-GIBBSON, H. , ZAWISTOWSKI, S. , 2015. Animal behavior for shelter veterinarians and staff. Wiley-Blackwell, Oxford, Reino Unido, 400 pp.
4. ROCHLITZ, I. , 2005. The welfare of cats. Series: Animal Welfare, Vol 3, XXI, Editora Springer, Berlim, Alemanha, 283 pp.
5. STAFFORD, K. , 2006. The welfare of dogs. Series: Animal Welfare, Vol 4, Editora Springer, Berlim, Alemanha, 290 pp.

### Teaching and learning methods

Lectures will be support by media and multimedia resources. Practical classes will engage direct working with animals. Seminars will allow teacher and students to explore a particular topic related to Animal Behavior. Non present hours will involve training in a working environment. Students are expected to work largely on their own initiative although with the close supervision of a tutor.

**Assessment methods**

1. 1 Test (50%) and 1 Restrict Examination (50%) - (Regular, Student Worker) (Final)
2. General Examination (100%) - (Student Worker) (Final)
3. General Examination (100%) - (Regular, Student Worker) (Supplementary, Special)

**Language of instruction**

Portuguese

**Electronic validation**

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11-01-2023	11-01-2023	11-01-2023	13-01-2023