

## 66862 - Comparative medicine: diseases in humans and animals

### Syllabus Information

**Academic year:** 2023/24

**Subject:** 66862 - Comparative medicine: diseases in humans and animals

**Faculty / School:** 105 - Facultad de Veterinaria

**Degree:** 617 - Master's in Global Health: Integration of Environmental, Human and Animal Health

**ECTS:** 3.0

**Year:** 1

**Semester:** Second semester

**Subject type:** Optional

**Module:**

### 1. General information

The main objective of the subject is to become aware of the existence of numerous animal and human diseases that share similar pathogenic mechanisms and of the importance that animal models have had and will have in the study of human diseases. This subject is included in the Master's Degree in Global Health, which reinforces the current and predominant concept of the joint assessment of human and animal diseases and the influence of the environment.

This subject will also provide competencies to meet certain Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (Goals 3, 4, 5, 8 and 11).

In order to take this subject, it is advisable that the student has a minimum previous knowledge of anatomy, biology, cytology, histology, physiology, biochemistry and pathology.

### 2. Learning results

- To understand the importance of animal models for the study of human diseases.
- To learn about canine diseases that can serve as a model for human diseases.
- To learn about feline diseases that can serve as a model for human diseases.
- To know certain diseases of production animals that are useful as a model for human diseases.
- To have specific knowledge of metabolic, cardiovascular, articular, nervous, respiratory, immune, tumour, reproductive and behavioural diseases, with similar characteristics both in humans and animals

### 3. Syllabus

The course comprises 22 theoretical topics, which will be taught for one hour each and are structured in thematic blocks covering metabolic, cardiovascular, articular, nervous, respiratory, immune, tumour, reproductive and some diseases with behavioural alterations that affect humans and animals, including environmental influences in some of them.

### 4. Academic activities

- Lectures: 22 classroom hours
- practical classes: no
- Teaching assignments: individual or group work on diseases as animal model (Bibliographic Review). Each student or group will choose a disease and perform a bibliographic review on it, compiling the similar factors between the animal disease and the human species. Students should contact the coordinator or a teacher for tutoring and guidance. In addition, they will make a presentation in class and participate in peer review by asking questions after the various presentations.

### 5. Assessment system

1. Theoretical exam: 22 multiple-choice questions and/or short questions. The test questions will have four alternatives, and only one of them is correct. 0.20 will be deducted from the final grade for each wrong answer. It will represent 60% of the final grade of the subject.
- 2- Theoretical works: the student, individually or in a group of two, must present a comparative medicine work at the end of the term. The topic will be chosen by the student and may be related to the diseases taught during the subject or not. The maximum length is 10 pages, single-sided, double-spaced, with wide margins. The work will be submitted to the subject coordinators. The grade for this activity will account for 25% of the final grade.
3. Class participation: oral presentation of theoretical work. In addition to the presentation, each student should ask a question to the student presenting their work. It will account for 15% of the final grade.
4. Global test: students who do not opt for continuous assessment or who do not pass the subject by this method, are entitled to take a global test consisting of a written test that assessed the theoretical contents of the subject.