

31200 - Psychobiological Fundamentals

Syllabus Information

Academic year: 2024/25

Subject: 31200 - Psychobiological Fundamentals

Faculty / School: 301 - Facultad de Ciencias Sociales y Humanas

Degree: 613 - Degree in Psychology

ECTS: 6.0

Year: 1

Semester: First semester

Subject type: Basic Education

Module:

1. General information

This subject is a basic one that belongs to Biological Foundations of Behaviour (Biology). Its purpose is for the student to acquire basic knowledge on the subject, such as the concept, method and techniques used in Psychobiology, the principles of genetics and evolution, as well as basic principles of neurophysiology and neuroanatomy.

2. Learning results

- Discriminate the field of study of Biopsychology and its disciplines; identifying the research interests common to Psychology and Neurosciences.
- Identify and differentiate the main methods and techniques of Biopsychology.
- Interpret the results of the application of methods and techniques in Biopsychology in psychological studies and argue their advantages.
- Identify the location and functioning mechanisms of the main macro and microstructures of the nervous system relevant to the explanation of behaviour in psychology.
- Identify, differentiate and argue the relationship between the structural and functional elements of the nervous system and healthy and pathological behaviour.
- Select the main documentary sources of Biopsychology to complete and update knowledge in

Psychology.

- Discriminate and adequately use the terminology of Biopsychology in the explanation of behaviours.

3. Syllabus

Unit 1. Introduction to Psychobiology

Unit 2. Behavioural genetics

Unit 3. The evolution

Unit 4. Cells of the nervous system

Unit 5. Basis of neuronal communication

Unit 6. Nervous system development

Unit 7. General organization of the nervous system

Unit 8. Interaction of the nervous system, endocrine system and immune system

4. Academic activities

- Theoretical lectures (master classes where contents are explained): 30 hours
- Laboratory practices: 30 hours

5. Assessment system

The student demonstrates achievement of the intended learning results through the following assessment activities:

1. Exercises during academic activities in class (up to 30% of the grade, up to 3 points out of 10). It will consist of the completion of questionnaires, practice reports, and individual and/or group work. These exercises will be carried out throughout the semester.

2. Final test (up to 70% of the grade, up to 7 points out of 10). It will consist of an objective time-limited multiple-choice test (3 alternatives) with randomized answer control. It will be held on the official final exam date. The student's ability to relate and apply theoretical and practical contents will be assessed. The score will be obtained by applying the following formula: $(C - (E/n - 1))$.

If there is any activity related to the subject on the campus, its realization may be proposed and a report on it may be requested and be evaluated with up to 0.5 points out of 10. In case this activity exists, it will be reported to the students as one of the activities performed in class.

The student will have the right, in any case, to be evaluated in the official final exam test of 100% of the subject (up to 10 points).

6. Sustainable Development Goals

3 - Good Health & Well-Being

4 - Quality Education

10 - Reduction of Inequalities