

**COURSE DATA****Data Subject**

Code	33324
Name	Psychoendocrinology
Cycle	Grade
ECTS Credits	4.5
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. year	Period
1319 - Degree in Psychology	Faculty of Psychology and Speech Therapy	4	First term

Subject-matter

Degree	Subject-matter	Character
1319 - Degree in Psychology	23 - Psychoendocrinology	Obligatory

Coordination

Name	Department
SALVADOR FERNANDEZ-MONTEJO, OTILIA ALICIA	268 - Psychobiology

SUMMARY

Behavioral Endocrinology is a biopsychological discipline which focuses on the bidirectional relationship between activity of the neuroendocrine system and behavior, considered at observable, private, cognitive or emotional levels. This relationship is described in thematic blocks combining metabolic, developmental, social and experiential aspects of the individual.

The knowledge and skills acquired in this course are essential along scientific training and research in Psychology, especially in the field of Neuroscience. Additionally, this course will provide a better understanding of the neuroendocrine substrate of human behavior in the different fields of applied Psychology, that will be helpful in order to improve the overall health of the individual. To achieve this goal, both social context of the individual (bonding, group dynamics) and its own individual development (issues of development, feeding behavior, sexual behavior, mood, cognitive function and stress management) will be considered. Finally, the course will allow students to acquire some skills that will be needed to work in multidisciplinary teams in the fields of health care and human resources management.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

It is recommended to have passed the subject 33296 - Fundamentals of Psychobiology and to have knowledge and skills from the previous subjects taught by the Department of Psychobiology. Likewise, it is recommended to have basic computer knowledge and skills, at the user level.

1319 - Degree in Psychology

- Be able to describe and measure variables (personality, intelligence, attitudes, aptitudes, etc.) and cognitive, emotional, psychobiological and behavioural processes.
- Know how to provide appropriate feedback to patients.
- Be able to prepare oral and written reports.
- Know and comply with professional ethics of Psychology.
- Know the main processes and stages of development throughout the life cycle within contexts of normality and abnormality.
- Understand the biological foundations of human behaviour and of the psychological functions related to the processes of thinking and language.

Students should be able to:

Describe the hormonal processes throughout the life cycle.

Identify and describe the hormonal patterns associated with sexual dimorphism, stress, mood, social behavior and cognitive function.

Discriminate between primary psychological disruption and psychological alterations, secondary to endocrine alterations to establish differential diagnosis.

DESCRIPTION OF CONTENTS

1. Introduction to Behavioral Endocrinology

Concept of Behavioral Endocrinology. Brief historical notes of the discipline. Techniques. General organization of the endocrine system.



2. Hormones and metabolism

Introduction. The thyroid axis and metabolic aspects. Behavioral aspects and imbalances of the thyroid axis. Glucose metabolism and behavior. Anabolism, catabolism and hormones involved.

3. Hormones, development and life cycle

Introduction. Hormonal profiles during pregnancy and lactation. Dymorphism, prenatal development and birth. Sexual orientation and sexual identity. Thyroid hormones and brain development. Growth hormone, functions and alterations. Puberty and adolescence. Aging and hormonal imbalances.

4. Hormones and social behavior

Social interaction and hormones. Status and dominance. Hormones and interpersonal conflict. Anabolic and aggressive behavior

5. Stress and adaptation

The adaptive response to stress: adrenal medullary system and hypothalamus-pituitary-adrenal axis. Modulating factors of the stress response. Chronic stress and health. Psychobiological indicators of stress.

6. Hormones and mood

Endocrine disorders and mood: glucocorticoids and thyroid hormones. Hormonal correlates of mood.

7. Hormones and cognition

Sex hormones and cognitive aspects. Adrenal hormones and cognition

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theoretical and practical classes	45,00	100
Attendance at events and external activities	5,00	0
Development of group work	10,00	0
Development of individual work	10,00	0
Study and independent work	5,00	0
Readings supplementary material	2,50	0
Preparation of evaluation activities	15,00	0
Preparing lectures	10,00	0
Preparation of practical classes and problem	10,00	0
TOTAL	112,50	

TEACHING METHODOLOGY

Lectures given by the teacher in order to developed the contents. Participatory involvement of students through the resolution of the proposed issues will be promoted throughout the lecture.

Theoretical and practical classes will be carried out employing audiovisual support, links to different websites, textbooks and scientific articles, as well as other readings and materials.

Individual or group scheduled tutoring will be performed to supervise practical work, guidance and resolution of doubts.

Practical sessions in laboratories and seminars are focused on applied aspects in which the student, individually or in groups, has to work with the materials provided (tests, articles, scientific equipment to record variables) in order to achieve specific goals.

EVALUATION**EVALUATION AND WEIGHTING SYSTEMS**

It consists of two sections for the first and second call:

1.- Assessment of theoretical and practical contents by means of multiple-answer tests, short questions, or skills acquisition questions (70%)



2.- Assessment of academic works that imply that the student has developed competences of knowledge, comprehension and application of the contents, which will constitute 30% of the final grade. This percentage may include homework delivered at the end of the face-to-face session, homework delivered throughout the course, within the deadlines established for each case, and public presentations, individually or as a team. This section will be recoverable in the second call.

MINIMUM REQUIREMENTS

- To pass the subject, it is essential to obtain a minimum of 50% of the maximum score possible at the theoretical-practical exam (first section of the assessment) as well as in the evaluation of the works.

WARNING

Manifest copying or plagiarism of any task that is part of the evaluation entails the impossibility to pass the subject, and may involve immediate submission to the appropriate disciplinary procedures.

It should be noted that, in accordance with Article 13. d) of the Statute of the University Student (RD 1791/2010, of 30 December), it is the duty of the student to refrain from using, or to cooperate in the use of fraudulent procedures in the tests of evaluation, in the assignments or in official university documents.

During tutoring, the professor may require individual or group interviews, in order to verify the degree of participation and achievement of the objectives set for any task performed.

Failure to accept this verification would imply failing the task or activity in question.

QUALIFICATION SYSTEM

The evaluation of the subject and the challenge of the grade obtained are subject to what is included in the Regulations of Evaluation and Qualification of the University of Valencia for titles of Degree and Master (ACGUV 108/2017 de 30 de maig de 2017).

http://www.uv.es/graus/normatives/2017_108_reglament_avaluacio_qualificacio.pdf

According to this, it is specified on a numerical scale from 0 to 10, with the expression of a decimal, to which a qualitative rating is added as follows, referred to the final grade:

- 0> Fail - 5> Passes - 7> Notable - 9> Excellent 10

Only the different sections considered in the evaluation will be added when the requirements established for each one are exceeded, if they have been established.



The official records of the course will incorporate the qualification obtained in the first and second call, in agreement with the following rules:

- FAIL:

o If, having covered all the evaluation sections, the sum does not reach 5.

o If the minimum established in an evaluation section marked as a requirement to pass is not reached. The numerical mark in base 10 of the suspended section' grade will be stated.

- NOT PRESENTED:

o If there are no qualifications for any assessment section.

o If there is a lack of qualification in one or more of the recoverable sections and the rest have been passed.

REFERENCES

Basic

- Nelson, R.J. & Kriegsfeld, L.L. (2017): An Introduction to Behavioral Endocrinology, Fifth Edition. Sinauer Associates: Sunderland

Additional

- Buss, D. M. (2016). The evolution of desire: Strategies of human mating. Basic books
- Ehrlenspiel, F. & Strahler, K.: Psychoneuroendocrinology of Sport and Exercise, Routledge, 2012
- Luck, M. (2014). Hormones: A very short introduction (Vol. 394). Oxford University Press, USA.
- Soh, D. (2020). The end of gender: Debunking the myths about sex and identity in our society. Simon and Schuster.

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

1. DESCRIPTION OF CONTENTS

The contents are maintained concerning the original guide, although the greater emphasis will be placed on those necessary for the acquisition of the skills and learning outcomes of the subject.



2. WORKLOAD AND TIMING

The time of presence in the classroom along with the subject and its planning during the first four-month period will comply with the health regulations, following Article 3.2.2. on measures in the university teaching, of the agreement of 19 June 2020, of the Governing Council, on preventive measures against Covid-19 (DOGV of 20 June 2020).

3. TEACHING METHODOLOGY

The teaching methodology will be mixed, face-to-face, and on-line, following the guidelines of the Faculty of Psychology. The online sessions will consist of the transmission of materials and tests through the Virtual Classroom synchronously and asynchronously, as well as the solution of possible questions about subject topics. The synchronous sessions will always coincide with the timetables of each group as set out on the website of the Faculty of Psychology.

4. EVALUATION

Two possible evaluation situations are established that will be determined by the situation of greater or less presence of the course:

Proposal A (blended: online and face-to-face classes, with a final face-to-face test): In this scenario, the evaluation system established in the teaching guide is maintained.

Proposal B (non-attendance): In this scenario, the established evaluation system is maintained, modifying the weight of the final test (50%) and of the activities and work to be carried out (50%). It will be recoverable at the second call. The final test will be made up of multiple choice objective questions and / or short questions, using the tools available in the virtual classroom.

The aspects of the Assessment included in the Teaching Guide in terms of general considerations that are not mentioned in this Addendum, are maintained as they are included in the Guide.

5. REFERENCES

They appear in the corresponding section of the Academic Guide.