



Information about the subject

Degree: Bachelor of Science Degree in Speech and Language Therapy

Faculty: Faculty of Psychology

Code: 1172003 **Name:** -Biology of human behavior

Credits: 6,00 **ECTS Year:** The course is not offered this academic year **Semester:**

Module: Optatives

Subject Matter: Neuropsychology **Type:** Elective

Field of knowledge: Ciencias de la Salud

Department: Speech Therapy

Type of learning: Classroom-based learning

Languages in which it is taught:

Lecturer/-s:



Module organization

Optatives

Subject Matter	ECTS	Subject	ECTS	Year/semester
Audiology	18,00	Audiological assessment	6,00	This elective is not offered in the academic year 24/25
		Introduction to Audiology	6,00	This elective is not offered in the academic year 24/25
		Medical Audiology	6,00	This elective is not offered in the academic year 24/25
Neuropsychology	18,00	-Biology of human behavior	6,00	This elective is not offered in the academic year 24/25
		Clinical Neuropsychology	6,00	This elective is not offered in the academic year 24/25
		Psychogerontology	6,00	This elective is not offered in the academic year 24/25
Clinical Linguistics	18,00	Acoustic Phonetics	6,00	This elective is not offered in the academic year 24/25
		Bilingualism and speech and language therapy	6,00	This elective is not offered in the academic year 24/25



Clinical Linguistics		Methods of language analysis applied to speech and language therapy	6,00	
Work techniques	18,00	Documentation in health sciences	6,00	This elective is not offered in the academic year 24/25
		Methodologies of professional skills for communication I	6,00	
		Methodologies of professional skills for communication II	6,00	
Educational processes and contexts	18,00	Design and assessment of educational action plans	6,00	This elective is not offered in the academic year 24/25
		Didactics and educational innovation	6,00	This elective is not offered in the academic year 24/25
		Educational fundamentals and school organisation	6,00	This elective is not offered in the academic year 24/25
		Teaching-Learning Processes in the Classroom: Techniques and Tools	6,00	This elective is not offered in the academic year 24/25
Sign Language	18,00	Communication systems for the deafblind	6,00	This elective is not offered in the academic year 24/25
		Spanish Sign Language I	6,00	This elective is not offered in the academic year 24/25



Sign Language		Spanish Sign Language II	6,00	This elective is not offered in the academic year 24/25
		Spanish Sign Language III	6,00	This elective is not offered in the academic year 24/25
Psychology	18,00	Clinical psychopathology and of health in children and adolescents	6,00	
		Psychopathology in adults	6,00	
		Psychopathology in children and adolescents	6,00	

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 To know the interactions between the nervous system and cellular communication and their relationships with human behavior
- R2 To know and relate the nervous system macroanatomy with its function and some physiological characteristics
- R3 To know and relate the nervous system macroanatomy with its function and some physiological characteristics



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

SPECIFIC	Weighting			
	1	2	3	4
CE1 Understand and integrate the biological foundations of Speech: Anatomy and Physiology				X
CE37 Master the terminology that allows one to interact effectively with other professionals				X
CE47 Know and be able to integrate the biological (anatomical and physiological), psychological (and evolutionary development processes), linguistic and pedagogical foundations of speech therapy intervention in communication, language, speech, hearing, speech and non-verbal oral functions			X	

TRANSVERSAL	Weighting			
	1	2	3	4
CT7 Having an open and flexible attitude to lifelong learning				X



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3	50,00%	Written exam
R1, R2, R3	40,00%	Practical work assignments assessment
	10,00%	Attendance and participation of in-person formative activities

Observations

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded.

Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1 On-Campus Class

M2 Practical Class



- M3 Seminar
- M4 Laboratory
- M5 Individual Work
- M6 Group Work
- M7 Work Exhibition
- M8 Clinical Case Analysis
- M9 Prácticas en clínicas y centros



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
ON-CAMPUS CLASS. Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge M1	R1, R2, R3	25,00	1,00
PRACTICAL CLASSES. Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity M1, M2, M5, M6	R1, R2, R3	12,50	0,50
GROUP WORK EXHIBITION. Application of multidisciplinary knowledge M5, M6	R1, R2, R3	5,00	0,20
SEMINAR. Supervised monographic sessions with shared participation M3	R1	5,00	0,20
OFFICE ASSISTANCE. Personalized and small group attention. Period of instruction and/or orientation carried out by a tutor to review and discuss materials and topics presented in classes, seminars, papers, etc. M1, M2	R1, R2, R3	5,00	0,20
ASSESSMENT. Set of oral and/or written tests used in initial, formative or additive assessment of the student M1	R1, R2, R3	2,50	0,10
TOTAL		55,00	2,20



LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
GROUP WORK. Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform M6	R1, R2, R3	40,00	1,60
INDEPENDENT WORK. Student study: Individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform M5	R1, R2, R3	55,00	2,20
TOTAL		95,00	3,80



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
I. INTRODUCTION TO BEHAVIOURAL BIOLOGY	DU 1. Introduction to Human Behavioural Biology
II. ORGANIZATION OF THE NERVOUS SYSTEM	DU 2. The Central Nervous System DU 3. The Peripheral Nervous System DU 4. Cerebral vasculararity
III. THE NEURON	DU 5. The neuron and the neuroglia DU 6. The synapse
IV. PSYCHOENDOCRINOLOGY	DU7. Introduction and general structure DU 8. Hormones

Temporary organization of learning:

Block of content	Number of sessions	Hours
I. INTRODUCTION TO BEHAVIOURAL BIOLOGY	3,50	7,00
II. ORGANIZATION OF THE NERVOUS SYSTEM	16,00	32,00
III. THE NEURON	4,00	8,00
IV. PSYCHOENDOCRINOLOGY	4,00	8,00



References

- CARLSON, NR. (2014). Fisiología de la conducta. Madrid: Prentice Hall.
- DIAMOND, M.C, SCHEIBEL, A.B.y ELSON, L.M. (2014). El cerebro humano. Libro de trabajo. Barcelona. Ariel.
- CORR, P.J. (2008). Psicología biológica. México: McGraw Hill Interamericana.
- FELTEN, D.L. y SHETTY, A.N. (2010). Netter: Atlas de Neurociencia. 2a edición. Barcelona: Elsevier-Masson.
- GO´MEZ SÁEZ, J. M. (2015). Actualizacio´n en Neuroendocrinología. Barcelona: Elsevier.
- KANDEL, E.R., SCHAWARTZ, J.H.y JESSELL, T.M. (2017). Principios de neurociencia. Madrid: Mcgraw Hill-Interamericana.
- KOLB, B. Y WHISHAW, I. Q. (2002). Cerebro y conducta: una introducción. Madrid: McGraw-Hill.
- MICHELI, F. Y FERNÁNDEZ PARDAL, M. (2010). Neurología. Madrid. Panamericana
- PINEL, JPJ. (2007) Biopsicología. Madrid: Prentice Hall. Pearson Educación SA.
- SNELL, R.S. (2014). Neuroanatomía clínica (7a ed.). Barcelona: Wolters Kluwerl.
- WAXMAN, S.G. (2010). Neuroanatomía clínica (26a ed.). Madrid: McGraw-Hill.
- OBLIGATORIO: Felten, D.I. y Maida, Mary Summo (2019). Netter. Cuaderno de Neurociencia para colorear. Elsevier: Barcelona.