



Universitat de Lleida

# DEGREE CURRICULUM **NEUROPSYCHOLOGY APPLIED TO THE FIELD OF HEALTH**

Coordination: ARQUE FUSTE, GLORIA

Academic year 2023-24

## Subject's general information

Subject name	NEUROPSYCHOLOGY APPLIED TO THE FIELD OF HEALTH			
Code	14562			
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Double degree: Master in General Health Psychology and Master in Neuropsychology	1	OPTIONAL	Blended learning
	Master's Degree in General Health Psychology	1	OPTIONAL	Attendance-based
Course number of credits (ECTS)	3			
Type of activity, credits, and groups	Activity type	PRAULA	TEORIA	
	Number of credits	0.9	2.1	
	Number of groups	1	1	
Coordination	ARQUE FUSTE, GLORIA			
Department	PSYCHOLOGY, SOCIOLOGY AND SOCIAL WORK			
Important information on data processing	Consult <a href="#">this link</a> for more information.			
Language	Catalan/Spanish/English			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ARQUE FUSTE, GLORIA	gloria.arque@udl.cat	1,5	Email professor to schedule a meeting.
MORA TOSQUELLA, ESTHER	esther.mora@udl.cat	,55	Email professor to schedule a meeting.
PEREIRA PRIEGO, CRISTINA	cristina.pereira@udl.cat	,95	

## Learning objectives

1. To understand the neurobiological bases that underpin cognitive and behavioral processes and the main techniques for studying the nervous system.
2. To know the main instruments of neuropsychological evaluation by domains based on evidence, as well as their administration and interpretation.
3. To have a knowledge base that allows you to improve your skills and attitudes in the field of neuropsychology for professional practice.
4. To know the main techniques used for neuropsychological rehabilitation based on the current scientific literature.

## Competences

CB2 Know how to apply the knowledge acquired and have the ability to solve problems in new or little-known environments within broader (or multidisciplinary) contexts related to their area of study.

CB4 Know how to communicate their conclusions –and the knowledge and ultimate reasons that support them– to specialized and non-specialized audiences in a clear and unambiguous way.

CB5 Possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.

CE1 Acquire, develop and put into practice a concept of comprehensive health, where its biopsychosocial components have a place, in accordance with the guidelines established by the WHO.

CE3 Show adequate interpersonal communication and emotion management skills for effective interaction with patients, family members and caregivers in the processes of problem identification, evaluation, diagnosis communication and psychological intervention and follow-up.

CE4 Critically analyze and use clinical information sources.

CE5 Use information and communication technologies in professional performance.

CE6 Write psychological reports appropriately for the recipients.

CE8 Know the framework of action of the general health psychologist and know how to refer to the corresponding professional specialist.

CE11 Knowledge of the obligations and responsibilities of health personnel regarding the confidentiality of information and the protection of personal data of patients.

CE12 Know in depth the psychological nature of human behavior, as well as the social and biological factors that can affect it.

CE16 Know in depth the different models of evaluation and intervention in the field of General Health Psychology, as well as the techniques and procedures derived from them for addressing behavioral disorders and the psychological factors associated with health problems.

CT1 Have correct oral and written expression.

CT3 Master ICT.

## Subject contents

- Unit 1. Concept and Method in Neuropsychology
- Unit 2. Pathology of the Nervous System
- Unit 3. Neuropsychology of executive functions
- Unit 4. Neuropsychology of perception and motor skills: agnosias and apraxias
- Unit 5. Neuropsychology of attention and memory: neglect and amnesia
- Unit 6. Neuropsychology of language: aphasia, alexia, agraphia and acalculia
- Unit 7. Neuropsychological evaluation
- Unit 8. Neuropsychological rehabilitation

## Methodology

### In-class activities

Master classes.

Master classes: in which the teacher will explain part of the theoretical content of the subject. In these classes, students are expected to be attentive and actively involved by asking questions and answering questions, paradoxes, and problems raised by the teacher.

Clinical case study as they facilitate experiential learning.

Active participation on the part of the student is requested.

Most of the practices will be face-to-face, but some activities could be virtual if the circumstances require it.

Sufficiently in advance of the practice, the teacher will make available to the students the material that will be used during the practice.

Presentation of clinical cases.

### Non-inclass activities

Virtual Forums / Online Seminars.

Search for bibliographic information.

Preparation of neuropsychological assessment reports.

## Development plan

Week	Date	Activity Description
1	06/02/2024	Theoretical and practical class: Presentation of the subject and Unit 1 Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
2	13/02/2024	Theoretical and practical class: Unit 2 (First Part) Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
3	20/02/2024	Theoretical and practical class: Unit 2 (Second Part) Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
4	27/02/2024	Theoretical and practical class: Unit 3 (First Part) Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
5	05/03/2024	Theoretical and practical class: Unit 5 (First Part) Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora

6	12/03/2024	Theoretical and practical class: Unit 5 (Second Part) Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora
7	19/03/2024	Theoretical and practical class: Unit 6 (First Part) Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora
8	02/04/2024	Theoretical and practical class: Unit 6 (Second Part) Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora.
9	09/04/2024	Theoretical and practical class: Unit 7 Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora.
10	16/04/2024	Theoretical and practical class: Unit 8 Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora.
11	23/04/2024	<b>Exam</b> Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora.
12	30/04/2024	Theoretical and practical class: Unit 3 (second part) Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
13	07/05/2024	Theoretical and practical class: Unit 4 Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
14	14/05/2024	<b>Exam.</b> Approximate duration: 2 hours and 30 minutes. Professor: Glòria Arqué
15	21/05/2024	Practical class: Presentation of clinical cases. Approximate duration: 2 hours and 30 minutes. Professor: Esther Mora/Glòria Arqué

## Evaluation

The skills of this subject will be assessed through: knowledge and skills tests, practical group activities (clinical cases) and student participation. Continuous assessment consists of the following assessment evidence:

\*Test of knowledge and skills I: topic 1, 2, 3 and 4 (30% of the final grade)

\*Test of knowledge and skills II: subject 5, 6, 7 and 8 (30% of the final mark)

\* Participation in classes and attendance (10% of the final grade)

\*Clinical case activity, oral presentation and discussion of the case presented (30% of the final mark: 10% assessed by the student and 20% by the teaching staff)

In the continuous assessment modality, to pass the subject, students must have a minimum of 5 out of 10 points in the knowledge tests and in the clinical case activity. It is mandatory to take all knowledge tests (exams) in the continuous assessment mode.

In the event that the grade of the continuous assessment is lower than 5 or the proportional average grade does not reach 5, the student may take a final assessment test during the semester exam period (May 27 2024 – June 21, 2024).

Students who, due to justifiable circumstances, cannot follow the continuous assessment can request the alternative assessment from the centre's Secretary. Students taking the alternative assessment must take the two knowledge tests (Block 1 and Block 2), with a weight of 50% for each knowledge test. To pass the subject you must have a minimum of 5 out of 10 points in each knowledge test. In the event that 5 out of 10 is not reached in one or both of the knowledge tests, students may take a knowledge test during the semester exam period (May 27, 2024 – May 21, 2024 June 2024).

The grading system will be expressed using the following numerical grading: 0-4.9 = Pass; 5-6.9 = Passed; 7-8.9 = Remarkable; 9-10 = Excellent; 9-10 = Honor Roll. The subject is considered approved when the final grade is higher than 5 out of 10 points. The mention of Honor Roll can be awarded to students who have obtained a grade equal to or higher than 9.0.

## Bibliography

### Bibliografía básica

Helm-Estabrooks, N. y Albert, M.L. (2005). Manual de la afasia y de terapia de la afasia. Madrid: Medica Panamericana.

Kolb, B. y Whishaw, I.Q. (2016). Neuropsicología humana (7o ed.). Madrid: Medica Panamericana.

Peraíta, H. (coord) (2006) Envejecimiento y enfermedad de Alzheimer. Madrid: Editorial Trotta. Perea, M.V. y Ardila, A. S (2009). Síndromes neuropsicológicos. Salamanca: Amarú Ediciones.

Rains, D. (2003). Principios de neuropsicología humana. Madrid: MacGraw-Hill.

Tirapu-Ustároz, J., Ríos-Lago M. y Maestú, F. (2011). Manual de Neuropsicología (2a ed). Barcelona: Viguera Editores. Constituye un manual básico que recoge gran parte del contenido teórico de la asignatura.

Alfredo Ardila & Monica Roselli (2019). Neuropsicología clínica. Manual Moderno: México.

Ardila, A. (2007). Neuropsicología clínica. Méjico: Manual Moderno.

Arnedo, M., Bembibre, J. y Triviño, M. (2013). Neuropsicología A través de casos clínicos. Madrid:Panamericana.

De Perez, M. (2009). Manual de Neuropsicología clínica. Madrid: Pirámide.

Forn Frias, C. (2020). Manual de neuropsicología. Madrid: Editorial Pirámide.

Gil, R. (2007). Neuropsicología. Barcelona: Elsevier Masson.

Jodar (Coord.), Redolar, D., Blázquez, J.L., González, B., Muñoz, E., Periañez, J.A., Viejo, R. (2013). Neuropsicología. Barcelona: Editorial UOC.

Junque C., Bruna, O. y Mataro, M. (1998) Traumatismos craneoencefálicos. Un enfoque desde la neuropsicología y la logopedia: Guía práctica para profesionales y familiares. Barcelona: Masson.

Junque, C. y Barroso, J. (2009). Manual de neuropsicología. Madrid: Síntesi

Portellano, J.A. (2007). Neuropsicología infantil. Madrid: Síntesis.

Roger Gil (2019). Neuropsicología. Elsevier Masson: Barcelona.

Román, F. (2010). Neuropsicología. Madrid: Editorial Diego Marín.

### Bibliografía complementaria

Baddeley, A.D., Kopelman, M.D. y Wilson B.A. (2002). The handbook of memory disorders. Chichester: John Wiley & Sons. Heilman, K.M. y Valenstein, E. (2012). Clinical neuropsychology. New York: Oxford University Press.

Lezak, M.D. y Loring, D.W. (2004). Neuropsychological Assessment. New York: Oxford University Press.

Maestu, F. y Ríos-Lago, M. (2007). Neuroimagen: Técnicas y procesos cognitivos. Barcelona: Masson.

Peña-Casanova, J. (2007). Neurología de la conducta y neuropsicología. Madrid: Médica Panamericana.

Stuss, D.T., Winocur, G. y Robertson, I.H. (2010). Cognitive Neurorehabilitation: Evidence and Application. Cambridge: University Press.

Arnedo, M., Bembibre, J., Montes, A., y Triviño, M. (2018). Neuropsicología infantil. A través de casos clínicos. Madrid: Editorial Panamericana S.A.

Arnedo, M., Montes, A., Bembibre, J., y Triviño, M. (2018). Neuropsicología del desarrollo. Madrid: Editorial Panamericana S.A.

Bruna, O., Roig, T., Puyuelo, M., Junqué C. y Ruano, A. (2011). Rehabilitación neuropsicológica: Intervención y práctica clínica. Barcelona: Elsevier.

Tirapu-Ustároz, J., García, A., Ríos-Lago, M. y Ardila, A. (2012). Neuropsicología de la corteza prefrontal y las funciones ejecutivas. Barcelona: Viguera Editores.