UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Psicologiche, Pedagogiche, dell'Esercizio Fisico e della Formazione
ACADEMIC YEAR	2024/2025
BACHELOR'S DEGREE (BSC)	PSYCHOLOGICAL SCIENCES AND TECHNIQUES
SUBJECT	NEURO-BIOLOGICAL BASES OF BEHAVIOUR
TYPE OF EDUCATIONAL ACTIVITY	A
AMBIT	50111-Fondamenti della psicologia
CODE	23646
SCIENTIFIC SECTOR(S)	M-PSI/02
HEAD PROFESSOR(S)	SMIRNI DANIELA Professore Associato Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	10
INDIVIDUAL STUDY (Hrs)	190
COURSE ACTIVITY (Hrs)	60
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	1
TERM (SEMESTER)	2° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**SMIRNI DANIELA** Thursday 10:00 12:00 In presenza: stanza 12, piano 5, edificio 15 - A distanza: Codice Team zgy7c9n

DOCENTE: Prof.ssa DANIELA SMIRNI

PREREQUISITES	Basic knowledge of the neurobiological framework of human behavior is required.
LEARNING OUTCOMES	Knowledge and understanding Knowledge and ability to understand the relationships between brain functioning and behavior. Ability to apply knowledge and understanding Ability to critically analyze, understand and investigate independently the topics covered in the course. Making judgement Independent judgment and understanding of the neurobiological mechanisms underlying behavior. Communication skills The student will acquire an adequate linguistic competence to argue the course contents with expository clarity. Learning skills The student will acquire the skills necessary to identify and describe the neural structures involved in the different cognitive functions and the neurobiological processes that underlie them.
ASSESSMENT METHODS	The student's assessment involves an oral examination that aims to assess whether the student has knowledge and understanding of the topics. The evaluation is expressed in thirtieths. An excellent evaluation (grade 30 - 30 and honors) corresponds to an excellent knowledge of the topics dealt with with excellent display skills. A high rating (26-28 rating range) corresponds to a good one mastering the topics, expressed appropriately. A discrete evaluation (range 24-25) corresponds to a basic knowledge of the topics of the program, expressed with a discrete property of language. A satisfactory evaluation (range 21-23) corresponds to a basic knowledge of almost all the topics covered in the program, expressed in a technical language only partially mentioned. A sufficient evaluation (18-20) corresponds to a minimum basic knowledge of the essential topics of the program, expressed in non-technical language. The evaluation is insufficient if the student demonstrates that he does not have adequate knowledge of the basic topics of the program. Compensatory tools and dispensatory measures will be guaranteed by the Disability and Neurodiversity Center - University of Palermo (Ce.N.Dis.) to students with disabilities and neurodiversity, based on specific needs and in implementation of current legislation.
EDUCATIONAL OBJECTIVES	The teaching is aimed at providing basic psychobiology preparation and aims to stimulate the acquisition of fundamental notions to understand the relationships between behaviour, cognitive processes and the brain, integrating the biological, physiological and psychological aspects. These objectives are functional to the general ones of the course of studies to guarantee basic preparation to act professionally, with tasks of a technical-operational nature, in the health area.
TEACHING METHODS	Lessons; practical exercises. Attendance is strongly recommended.
SUGGESTED BIBLIOGRAPHY	Presti D. E. (a cura di) Rusconi E.- Fondamenti di Neuroscienze- 2019 | Mulino ISBN edizione digitale: 9788815353924 ISBN edizione a stampa: 9788815284716 BIBLIOGRAFIA INTEGRATIVA: Durante il corso verranno forniti articoli tratti da riviste scientifiche internazionali in lingua inglese. SUPPLEMENTARY BIBLIOGRAPHY: Articles taken from international scientific journals in English will be provided.

SYLLABUS

Hrs	Frontal teaching
9	Functional neuroanatomy of the nervous system
3	Neurons, synaptic transmission, neurotransmitters
6	Neural development, neuroplasticity, cognitive reserve
9	Sensory perception: vision, auditory and vestibular system, somatosensory system
9	Neurobiological bases of emotions, motivation, anxiety and stress
6	Circadian rhythms and sleep
6	Learning and memory
9	Elements of neuropsychology

Hrs	Practice
3	Neuropsychology exercises