
Testi del Syllabus

Resp. Did. **BERNARDIS PAOLO**
Docente **CHIANDETTI CINZIA**

Matricola: **009028**
Matricola: **012700**

Anno offerta: **2015/2016**
Insegnamento: **894SM - NEUROSCIENZE COGNITIVE**
Corso di studio: **SM54 - NEUROSCIENZE**
Anno regolamento: **2014**
CFU: **7**
Settore: **M-PSI/02**
Tipo Attività: **C - Caratterizzante**
Anno corso: **2**
Periodo: **Primo Semestre**
Sede: **TRIESTE**



Testi in italiano

Lingua insegnamento

english

Contenuti (Dipl.Sup.)

Cognitive Neuroscience (pb module)
PROGRAM

A brief summary of the brain structures, from the neuron to the highly specialized areas of the cortex. An extensive exposition of the cognitive neuroscience methods: electrophysiology, brain imaging, patients' studies, and transcranial magnetic stimulation. The main theories and findings in the fields of high- and low-level vision, space perception, attention, mathematical abilities.

The course (4ECTS) will be organized in two parts: 24 Hs of introductory theoretical lectures followed by students' presentation (8 Hs) of scientific papers. Each student will have to orally present to the class a scientific paper in the Journal club format. The papers will be chosen from a selection provided by the teacher during the course. Students are encouraged to use electronic presentations.

Students, who didn't have the possibility to present the scientific paper (because abroad), must prepare a critical essay to send by email one week before the examination. For more information, contact the professor by email. The list of papers is available here:

<http://www.units.it/bernardis/papers.html>

Cognitive Neuroscience (wg module)
PROGRAM

Philosophy of perception, psychophysics, psychobiology of sensation and perception.

Light and optic information. Spatial vision. Perception and recognition. Grouping and unit formation. Figure/ground articulation. Amodal completion. Object recognition. Face processing. Light, color and illumination. Color constancy. Space perception. Binocular vision. Combining depth cues. Motion perception. Structure from motion. Attention and scene perception.

Testi di riferimento	<p>Cognitive Neuroscience (pb module) TEXTBOOK Jamie Ward. (2009). The Student's Guide to Cognitive Neuroscience. 2nd Edition. Psychology Press: NY. (the book is available through the Amazon UK online store)</p> <p>Cognitive Neuroscience (wg module) TEXTBOOK a) Wolfe, Kluender, Levi, Bartoshuk, Herz, Klatzky, & Lederman (2006). Sensation and Perception, Sinauer, chapters 1-8. In Italian, Sensazione e Percezione, Zanichelli, 2007. (English and Italian editions available in the psychology library, Via E. Weiss, 4; Pal."P" - San Giovanni, 34128 Trieste; email: bibsangiovanni@units.it, tel: 040 558 2104, fax: 040 558 2103) b) one chapter from Handbook of Perceptual Organization (2013, J. Wagemans ed.) among the following four, downloadable here http://www.gestaltrevision.be/en/our-publications/handbook-of-perceptual-organization/accepted-chapters - Gerbino, Achromatic transparency - Gilchrist, Perceptual organization in lightness - van Lier & Gerbino, Perceptual completions - Vezzani, Kramer & Bressan, Stereokinetic effect, kinetic depth effect, and structure from motion</p>
Obiettivi formativi	<p>Cognitive Neuroscience (pb module) AIMS To provide a brain-based account of cognition, and a complete knowledge of the neuroscience methods.</p> <p>Cognitive Neuroscience (wg module) AIMS To provide a brain-based account of sensation and perception, and to develop practical knowledge of psychophysical methods.</p>
Modalità di verifica dell'apprendimento	<p>Cognitive Neuroscience (pb module) EXAM Written part (50%): 9 open questions Oral part (50%): Presentation of a short empirical paper.</p> <p>Cognitive Neuroscience (wg module) EXAM Written part (70%): 30 closed questions (4 alternatives) and 4 open questions Oral part (30%): Presentation of a short empirical research, conducted individually, on a topic included in the program (typically, a reduced replica of an experiment described in the literature). Examples will be provided during lab activities.</p>



Testi in inglese

Lingua insegnamento	english
Contenuti (Dipl.Sup.)	<p>Cognitive Neuroscience (pb module) PROGRAM A brief summary of the brain structures, from the neuron to the highly specialized areas of the cortex. An extensive exposition of the cognitive neuroscience methods: electrophysiology, brain imaging, patients' studies, and transcranial magnetic stimulation. The main theories and findings in the fields of high- and low-level vision, space perception, attention, mathematical abilities. The course (4ECTS) will be organized in two parts: 24 Hs of introductory theoretical lectures followed by students' presentation (8 Hs) of scientific papers. Each student will have to orally present to the class a scientific paper in the Journal club format. The papers will be chosen from a selection provided by the teacher during the course. Students are encouraged to use</p>

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Testi di riferimento

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Obiettivi formativi

Cognitive Neuroscience (pb module)
AIMS

To provide a brain-based account of cognition, and a complete knowledge of the neuroscience methods.

Cognitive Neuroscience (wg module)
AIMS

To provide a brain-based account of sensation and perception, and to develop practical knowledge of psychophysical methods.

Modalità di verifica dell'apprendimento

Cognitive Neuroscience (pb module)
EXAM

Written part (50%): 9 open questions

Oral part (50%): Presentation of a short empirical paper.

Cognitive Neuroscience (wg module)
EXAM

Written part (70%): 30 closed questions (4 alternatives) and 4 open questions

Oral part (30%): Presentation of a short empirical research, conducted individually, on a topic included in the program (typically, a reduced replica of an experiment described in the literature). Examples will be provided during lab activities.