



Università degli Studi di Padova

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## Psicologia

Mercoledì 5 Febbraio 2014

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### PRINCIPLES OF COGNITIVE NEUROSCIENCE

M-PSI/02, 6 crediti

Corsi di laurea / indirizzi:

> Lauree magistrali N.O. DM 17/2010 / [Cognitive neuroscience and clinical neuropsychology \(CN2\)](#)Prof. Sartori Giuseppe  
Prof. Regolin Lucia[Sede e calendario lezioni](#)[Dati statistici votazioni esami](#)

#### Teaching language

Inglese

#### Educational And Training Objectives

- Neuroscientific approach to the study of cognitive functions
- Comparative cognition: what makes us uniquely human and what our minds share with other creatures.

#### Pre-requisites

Knowledge of brain anatomy and cognitive psychology. Basic knowledge of neuropsychology and clinical neuropsychology.

#### Course content

- Brief history of cognitive neuroscience.
- Cellular and molecular basis of cognition.
- Structural and functional anatomy of cognition .
- Methods in Cognitive neuroscience: the contribution of neuroimaging techniques to the study of cognitive functions .
- Development and plasticity .
- The conscience issue.
- Comparative cognition: examples from social learning, mental time travel, metacognition, tool use and other abilities.
- The contribution of ethology, behavioral ecology and psychology to comparative cognition.

#### Recommended reading

- 1) Ward, J. The Student's Guide to Cognitive Neuroscience. Psychology Press.
- 2) Shettleworth, SJ. Fundamentals of comparative cognition. Oxford University Press
- 2) Recent scientific publications will be made available during classes.
- 3) Other course material available during classes.

#### Teaching methods

ATTENDANCE TO LECTURES IS RECOMMENDED. Each topic will be first introduced by the lecturer, by discussing the general issues relevant to it as well as the most interesting and recent evidence reported in the literature. Then, active debates will be promoted by students, through presentation and discussion of selected papers during classes.

#### Assessment methods

**Type of examination:** Written**Written examination:** Multiple choice questions

#### Teaching tools

EEG and ERPs registration and analysis are scheduled as laboratory activities.

#### COMUNICAZIONI AGLI STUDENTI (a cura del docente)

Nessuna comunicazione disponibile.

