



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Percezione Visiva

2021-2-E3002Q040

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#### Aims

The class aims to provide the basic psychological and psychophysiological knowledge necessary to understand the functioning of visual perception. It provides the tools for a fruitful interaction with other professional figures (psychologists, psychophysiologicals and neuropsychologists) for clinical and research purposes.

#### Contents

##### Psychological bases of visual perception:

- Research methods in psychology of visual perception
- Theories and psychological models of visual perception
- Visual-spatial attention and eye movements

##### Psycho-physiological bases of visual perception:

- Psycho-physiological bases of visual perception of characteristics (color, clarity, shape, depth, movement) and of visual recognition of objects
- Anatomic-functional bases of vision, perception, and attention
- Neuropsychology of vision, perception, and attention

## Detailed program

### Psychological bases of visual perception:

- Research in the psychology of visual perception. What does research in visual perception mean: identification of problems; use of the experimental method; the main psychophysical methods applicable to the study of visual facts.

- Theories and psychological models of visual perception. The comparison of the three main approaches to the study of the perceptual facts: the psychology of gestalt, organizational principles, segmentation of figure and background, the amodal completion, the phenomenon of perceptual transparency; the cognitivist model; and the Ecological theory of visual perception.

- *Visual-spatial attention and eye movements. How visual perception, attention, and eye movements interact with each other. Reading.*

### Psychophysiological bases of visual perception:

- *Psychophysiological bases of visual perception: cerebral processes and mechanisms underlying the perception of color, brightness, shape, depth, movement, the recognition of objects and scenes.*

- *Neuropsychology of vision, perception, and attention: disturbances of visual perception and visual attention due to brain injury; differential diagnosis between peripheral and central disorders of the dorsal visual route; evaluation and rehabilitation of the visual field defect; pseudo-hemianopsia; congenital and acquired reading disorders.*

## Prerequisites

No prerequisites

## Teaching form

Lectures with projections of powerpoint slides and videos.

*In the Covid-19 emergency period, lessons will take place remotely.*

## Textbook and teaching resource

Courtesy of Pearson, a textbook has been assembled that contains chapters taken from other manuals on specific subjects of the Visual Perception class, entitled "Perception and Visual Attention" edited by Daini, Facchi, Zavagno.

The book is available in the Bicocca campus bookshops.

Further material will be published on the e-learning pages associated with the class.

## **Semester**

II year, I semester

## **Assessment method**

The exam consists of:

- 1) Written assessment, including multiple-choice questions, and open questions on the topics of the course.
- 2) Oral assessment (optional). The evaluation of the oral assessment may result in a modification of the final score of the exam with a positive or negative sign, or in no change.

## **Office hours**

Prof. Roberta Daini: see professor's web page

Prof. Emanuela Bricolo: see professor's web page

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