

Tel-Aviv University
Faculty of Social Sciences
School of Psychological Science

Perception and Psychophysics
Spring Semester, Tue: 10:15-11:45

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Required Readings

(1) Goldstein, E. B. (2010). Sensation and perception, 8th ed., Belmont, CA: Wadsworth (Chapters: 1-5, 9-12, Appendix).

(2) Suggested text:
Sagi, D. (2011). Perceptual learning in vision research. Vision research, 51(13), 1552-1566.

(3) Suggested text:
Algom, D. (1990). Perception and psychophysics, Tel-Aviv: Ministry of Defense Publishing House (Hebrew).

Further Requirements

Attendance in class is expected.

Student Evaluation

Final comprehensive exam based on the readings and class.

Course Description:

How do people build their perception of the world out of the conglomeration of physical energy impinging on the sense organs? The resulting sensation is governed by general rules common to all sensory systems and by particular rules pertaining to each individual system. The objective of this course is to introduce the various sets of processing principles by way of gaining a fundamental understanding of human sensation and perception.

Course outline

Subject	Reading
Introduction	Ch. 1
Psychophysical laws	
Signal detection theory	Appendix
The visual system: The light stimulus, anatomy, physiology	Ch. 2-4
The visual system: Perceptual phenomena	Ch. 5,10
The auditory system: The sound stimulus, anatomy, physiology	Ch. 11
The auditory system: Perceptual phenomena	Ch. 12
Color perception	Ch. 9
Perceptual learning	Sagi 2011
A link to new directions in cognitive neuroscience	