



Course program and reading list

Semester 2 Year 2024

School: Baruch Ivcher School of Psychology

Cognitive Processes A sensation and perception

Lecturer:

Prof. Daniel Levy daniel.levy@runi.ac.il

Tutors:

Prof. Daniel Levy daniel.levy@runi.ac.il

Teaching Assistant:

Mr. Daniel Edery daniel.edery@post.runi.ac.il

Course No.:	Course Type :	Weekly Hours :	Credit:
8936	Lecture	2	4

Course Requirements :	Group Code :	Language:
Final Exam	242893600	English

Prerequisites

Prerequisite:

8000 - Introduction To Psychology

Students who took one of the courses listed below will not be allowed to register to the course Cognitive Processes A sensation and perception (8936):

8020 - Introduction to Cognitive Psychology

Course Description

The foundation of all thought, behavior, and emotion is our interaction with the world through our senses. We will begin our cognitive journey by exploring the fundamental processes of sensation and perception, as exemplified in the chemical senses of **taste and smell**. We will then turn to the world of **sound and hearing**, and investigate how we perceive environments, speech, and music. We will touch on **psychophysics** - the mechanisms that scientists use to characterize individual and general perceptual abilities. On the basis of that foundation, we will explore the capacities and limitations of human **vision**, the most vital of senses. We will discover the processes and brain bases of our visual perceptual abilities: the structure of the eye; the early stages of visual perception; seeing shape, color and motion; seeing objects, faces, and places; and vision for action.

Course Goals

To provide understanding of the way humans perceive the world through the senses of taste, smell, vision, and hearing.

To provide understanding of the mechanisms of speech perception and hearing impairment.

To become acquainted with concepts of psychophysics and signal detection theory

Grading

Grade components for the course:

- **6 short online quizzes (2.5% each; 15% total)**
- **4 creative assignments (10% each; 40% total)**
- **final exam (45%)**

Quizzes and exam will be based on the contents of the lectures, the reading materials as posted on the website, and on the information in the PowerPoints (including the notes pages). Study guides will be posted for each quiz, and the same material will be on the exam (with possible additional material about which a separate notice will be provided)

Learning Outcomes

Students should be able to explain (in narrative form) key processes and mechanisms of perception.

Students should be able to provide information (supplying terms and names of structures and substances) about the phenomena and biological substrates of

perceptual processes.



Lecturer Office Hours

By appointment: daniel.levy@runi.ac.il



Tutor Office Hours

By appointment: daniel.levy@runi.ac.il



Teaching Assistant

By appointment: Daniel Edery – ederydaniel578@gmail.com



Reading List

Textbook: E. Bruce Goldstein and James R. Brockmole. *Sensation and Perception*. 10th Edition. Wadsworth-Cengage Publishing.

The required chapters (posted on the Moodle website) will be supplemented by articles and other materials assigned by the instructor, which will be available on the course website. It is the responsibility of the student to check that website weekly (at least) for updates, changes and assignments.