Advanced Seminar in Perception (cross-listed as Psych-UA 61 and Neurl-UA 302.006) Offered every every other year.

The objective of this course is to master the fundamental facts and concepts of perceptual psychology and sensory neuroscience, focusing on visual perception, visual neuroscience and computational neuroscience. This is an interdisciplinary field of science, crossing the boundaries between psychology, biology, physics and engineering. This course is intended for neural science majors and psychology majors that are on track for careers in science and medicine. This course is also appropriate for students in the psychology masters degree program. Topics include: neurophysiology and neuroanatomy; psychophysics; neuroimaging; linear systems theory; signal detection theory; light and the eye; physiology and anatomy of the retina; color vision; brightness and contrast; pattern and texture perception; perception of depth and size; visual motion perception; object recognition; attention and awareness.

Prerequisites: Introduction to Psychology (Psych-UA 1) & Perception (Psych-UA 22); or Introduction to Neural Science (Neurl-UA 100) & Behavioral and Integrative Neuroscience (Neurl-UA 220).