

Spring 2020 Advanced Topics/400 Level Courses

830:402 Advanced Topics in Human Cognition
Perceptual judgments and decision making
Professor Melchi Michel
ARC 110, MW4 (1:40-3:00pm)

Prerequisite: 830:301 (Sensation and Perception) or 830:305 (Cognition)
(Jr/Sr 830 Major or permission of instructor is a prereq for Adv Topics/400 Level courses)

In this course, we will examine contemporary studies of perception, with an emphasis on normative approaches to studying perceptual judgments and perceptual-motor decision making. The course will include an introduction to normative approaches (including Bayesian and Ideal Observer/Actor models), but will focus on reading, discussing, and critiquing recent primary source papers. Specific topics will include: visual motion perception, depth perception, visual perception of shapes and objects, combination of information across different senses (e.g., vision and hearing, vision and touch), visual search, and perceptual-motor interaction.