Goals: To understand how our sensory systems sculpt our experience of the world around us. To understand how our senses differ and in what ways they are similar. To understand methodologies and some statistical techniques used to assure us of how our senses work. To place the workings of the human body and its senses within an evolutionary context, and to understand how these developed both across species and within our own life spans. And to begin to come to grips with the duality of having both minds and brains.

Week | Lecture number and topic | Reading assignment
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1 | 1. Doctrine of the specific qualities of nerves | Chapter 1: 3-29. Introduction; FYI: Mueller & Oppenheimer paper
| | 2. Two metaphors for cognitive neuroscience | no reading assignment
| | 4. Signal detection | no reading assignment
3 | 5. Olfaction | Chapter 15: 467-493. Taste
| | 6. Taste and the vomeronasal organ | no reading assignment
| | 8. Skin, pain, and phantom limbs | Chapter 12: 349-386. The vestibular system and our sense of equilibrium
| | 10. Sounds, the ear, and deafness | Chapter 10: 291-319: Hearing in the environment
12. Parapsychology
   no reading assignment

13. **FIRST PRELIMINARY EXAMINATION**, during class time
   Question answering session to be arranged, M aft/eve 5 Oct. No makeups

14. Light and the eye
   Chapter 2: 31-51. The first steps in vision

15. Lateral and temporal inhibition
   [1st prelims handed back at end of class]

16. Visual pathways
   Chapter 3: 53-87. Spatial vision

17. Hemispheric specialization
   no reading assignment

18. Acuity reconsidered
   Chapter 4: 90-120. Perceiving and recognizing objects. Review Chap 1: 15-18

19. M.C. Escher and the perception of form
   no reading assignment

20. Color, history, and physiology
   Chapter 5: 125-155. The perception of color

21. Color, luminance, and pathways
   no reading assignment

22. Depth and layout
   Chapter 6: 157-198. Space perception and binocular vision

23. Attention, motion, and movies
   Chapter 7: 202-234. Attention and scene perception

24. Cinematic form
   Chapter 8: 221-241. Motion perception

25. **SECOND PRELIMINARY EXAMINATION.** material since 1st prelim
   Question answering session to be arranged, W aft/eve 18 Nov. No makeups

26. Perception of faces
   no reading assignment

27. Mere exposure, art, and culture
   [2nd prelims handed back with provisional final grade]

28. The common sensibles and sensory substitution
   no reading assignment

**FINAL EXAM.** comprehensive.
Exam period: 9-17 Dec. Date will be determined shortly after the Add period ends, 8 Sept. For the exam, a question answering session to be arranged. No early exams.
It is expected that all students will follow the Cornell Code of Academic Integrity: http://cuinfo.cornell.edu/aic.cfm

**Contract:** Your grade will be determined by the mean of your two highest grades. Thus, if you are happy with your two prelim grades, you need not take the final. But, there are no makeups for the prelims or for the final.

Members of athletic teams and others away on Cornell University business during the prelims may take the exam while they are away under the supervision of a trainer, coach, or faculty sponsor. Please notify me well in advance so that arrangements can be made.

Students registered with a physician’s statement and needing extra time on exams should contact me early in the course so that accommodations can be planned. See: http://sds.cornell.edu/index.htm and http://sds.cornell.edu/Brochures/ADHD_Guidelines.pdf

**Extra credit:** Given that the bulk of the presentation of material in this course is experimental, I have found it useful for students to participate in experiments as part of their education in experimental psychology and cognitive science. To this end, you may earn up to three points of extra credit towards your grade should you choose to participate in these experiments, as sponsored through this class. These points would be added to your second lowest grade, after the lowest has been dropped. Experimental sign-ups are through the SONA website.