

PSY 529: Perception

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Class: St. Joseph Hall, room 325; Tuesday and Thursday 1:30 - 2:45 PM

Office Hours: Monday and Wednesday: 12:30 to 1:30 PM. You can also make an appointment if those times are not convenient.

Text: Blake, R. & Sekuler, R. (2005). Perception, 5th ed. McGraw Hill

Grading:

4	100 point exams
1	50 point presentation
10	10 point reaction papers

93 – 100% = A

90 – 92% = A-

87 – 89% = B+

83 – 86% = B

80 – 82% = B-

73 – 79% = C

0 – 72% = F

Exams: The exams consist of 10 multiple choice questions (each worth 2 points), 10 fill in the blank questions (each worth 2 points), 10 issue questions (given a term or phrase, write two or three sentences that discuss issues associated with the term; each worth 3 points), and 2 open ended / essay / problem questions (each worth 15 points.) The multiple choice and fill in the blank questions will be primarily drawn from the text. Each exam is worth 100 points.

Make-up exams will not normally be given. If you do not notify Dr. Elvers *before* missing an exam, you will receive a grade of 0 on that exam and will not be eligible to take a make-up exam. Make-up exams will be in a format of the instructor's choosing and will be given during the regularly scheduled final exam period. There are no exceptions.

- Presentation:** Each student should select one topic (with approval of the instructor) and prepare a presentation on that topic. The topic can be either applied or theoretical, but must clearly address sensation and / or perception as its main focus. The presentation should:
- be at least 20, but not more than 25 minutes in length; 22 minutes is the target. The target duration does NOT include time for questions at the end of the presentation.
 - be at a sufficiently high level to demonstrate mastery of the material, but still understandable for the other students in the course.
 - present information beyond what is in the text, class website, and class.
 - be professionally prepared and presented.

The presentations will occur in the last quarter of the semester. Times will be assigned based on the topic. The presentation is worth 50 points.

Reaction Papers: Ten times throughout the semester you will be required to read an article and write a reaction to it. The reaction papers should:

- summarize the article.
- discuss limitations of the article.
- relate the article to what the text has to say on the general subject.
- suggest an unanswered and meaningful question on the topic that could form the basis of a research project. This should be done in sufficient detail to demonstrate that you have carefully thought about the issue.
- be 2 to 3 double spaced pages long.

The list of articles is given below.

Each reaction paper is worth 10 points.

Attendance: Attendance is required unless excused by the instructor. You are expected to be prepared for class. Minimally this implies that you have read and understood the chapter and read and understood, or at least have questions about, the assigned reading. If it is obvious that you have not adequately prepared for class, or are late or absent from class without a valid excuse, points will be deducted from your exam grades.

Academic Honesty: Academic dishonesty will not be tolerated. All instances of academic dishonesty will result in a failing grade in the course. Academic dishonesty includes any activity that might result in a grade other than what you are justly entitled to. Academic dishonesty also includes plagiarism. Your writing is to be in your own words.

Notes: This syllabus is only an approximation of when material will be covered in class. The syllabus may need to be changed depending on the flow of the class or for other extenuating circumstances. I reserve the right to substitute reading and / or reaction paper articles if interesting material appears in the literature.

Syllabus



Date	Class	Web	Text
Tue 8/21	Introductory comments		
Thur 8/23	Bressan, Garlaschelli, and Barracano (2003)	Introduction to Perception	Chapter 1 – pp. 1-28
Tue 8/28	Psychophysics lab Reaction Paper 1 Due	Research Methods in Perception	Appendix – pp. 553 – 568
Thur 8/30	Hardy, Frederick, Kay & Werner (2005)	Light and the Eye	Chapter 2 – pp. 29 - 60
Tue 9/4	Henderson and Hollingworth (2003)	Eye and Seeing	Chapter 2 – pp. 60 – 69 Chapter 3 – pp. 71 – 85
Thur 9/6	Engbert and Kliegl (2004)		Chapter 3 – pp. 85 – 110
Mon 9/10	Last day to drop without record		
Tues 9/11	Exam 1		
Thur 9/13	Humphreys and Riddoch (2003)	Brain and Seeing	Chapter 4 – pp. 111 – 120
Tue 9/18	Carlson, Rauschenberger and Verstraten (2007)		Chapter 4 – pp. 120 -- 150
Thur 9/20	Smith (2003)	Spatial Vision and Form Perception	Chapter 5 – pp. 151 -- 192
Tue 9/25	Gillam and Chan (2002)	Object Perception	Chapter 6 – pp. 193 – 231
Thur 9/27	Reaction Paper 2 Due Snowden (2002)	Color Perception	Chapter 7 – pp. 233 – 246
Tue 10/2	Nikolié, Lichti, and Singer (2007)		Chapter 7 – pp. 246 – 263
Thur 10/4	Smilek, Dixon, Cudahy, and Merikle (2002) Reaction Paper 3 Due		Chapter 7 – pp. 263 – 271
Tue 10/9	Exam 2		
Thur 10/11	No class – mid-term break		

Date	Class	Web	Text
Tue 10/16	Norman, Todd, and Orban (2004)	See a Three Dimension World	Chapter 8 – pp. 273 – 312
Thur 10/18	Spehar and Gillam (2002) Reaction Paper 4 Due		Chapter 8 – pp. 312 - 315
Tue 10/23	Shipley (2003)	Action and the Perception of Events	Chapter 9 – pp. 317 – 352
Thur 10/25	Watanabe and Shimojo (2001) Reaction Paper 5 Due	Ear and Auditory System	Chapter 10 – pp. 353 – 370
Tue 10/30	Schellenberg and Trehub(2003)		Chapter 10 – pp. 370 – 376
Thur 11/1	Repp and Knoblich (2007) Reaction Paper 6 Due	Hearing and Listening	Chapter 11 – pp. 403 – 426
Mon 11/5	Last day to drop with record of W		
Tue 11/6	Exam 3		
Thur 11/8	Nicholls, Searle & Bradshaw (2004) Reaction Paper 7 Due	Speech and Music Perception	Chapter 12 – pp. 427 -- 456
Tue 11/13	Wells, Ward, Chua and Inglis (2005)	Touch	Chapter 13 – pp. 457 – 486
Thur 11/15	Prescott and Wilkie (2007)		Chapter 13 – pp. 487 – 496
Tue 11/20	Student presentations Reaction Paper 8 Due	Olfaction	Chapter 14 – pp. 497 -- 514
Thur 11/22	Thanksgiving recess – no class		
Tue 11/27	Student presentations Reaction Paper 9 Due		Chapter 14 – pp. 514 – 530
Thur 11/29	Student presentations	Gustation	Chapter 15 – pp. 531 - 552
Tue 12/4	Student presentations Reaction Paper 10 Due		
Thur 12/6	Student presentations		
Wed 12/12	Final Exam from 12:20 to 2:10 PM		

Reading List for Class Discussion

- Bressan, P., Garlaschelli, L., & Barracano, M. (2003). Antigravity hills are visual illusions. *Psychological Science, 14*, 441-449.
- Carlson, T. A., Rauschenberger, R., & Verstraten, F. A. J. (2007). No representation without awareness in the lateral occipital cortex. *Psychological Science, 18*, 298-302.
- Davenport, J. L., & Potter, M. C. (2004). Scene consistency in object and background perception. *Psychological Science, 15*, 559-564/
- Engbert, R. & Kliegl, R. (2004). Microsaccades keep the eyes' balance during fixation. *Psychological Science, 15*, 431-436.
- Hardy, J. L., Frederick, C. M., Kay, P. & Werner, J. S. (2005). What the optics of the aging eye can teach us about color language. *Psychological Science, 16*, 321-327.
- Henderson, J. M., & Hollingworth, A. (2003). Global transsaccadic change blindness during scene perception. *Psychological Science, 14*, 493-497.
- Humphreys, G. W., & Riddoch, M. J. (2003). Neuropsychological evidence for implicit interactions between object- and space-based attention. *Psychological Science, 14*, 487-492.
- Nicholls, M. E. R., Searle, D. A., & Bradshaw, J. L. (2004). Read my lips: Asymmetries in the visual expression and perception of speech revealed through the McGurk effect. *Psychological Science, 15*, 138-141.
- Nikolić, D., Lichi, P., & Singer, W. (2007). Color opponency in synaesthetic experiences. *Psychological Science, 18*, 481-486.
- Norman, J. F., Todd, J. T., & Orban, G. A. (2004). Perception of three-dimensional shape from specular highlights, deformations of shading, and other types of visual information. *Psychological Science, 15*, 565-570.
- Prescott, J., & Wilkie, J. (2007). Pain tolerance selectively increased by a sweet-smelling odor. *Psychological Science, 18*, 308-311.
- Repp, B. H., & Knoblich, G. (2007). Action can affect auditory perception. *Psychological Science, 18*, 6-7.
- Schellenberg, E. G., & Trehub, S. E. (2003). Good pitch memory is widespread. *Psychological Science, 14*, 262-266.
- Shipley, T. F. (2003). The effect of object and event orientation on perception of biological motion. *Psychological Science, 14*, 377-380.

- Smilek, D., Dixon, M. J., Cudahy, C., & Merikle, P. M. (2002). Synesthetic color experiences influence memory. *Psychological Science, 13*, 548 – 552.
- Snowden, R. J. (2002). Visual attention to color: Parvocellular guidance of attentional resources? *Psychological Science, 13*, 180-184.
- Spehar, B., & Gillam, B. (2002). Modal completion in the Poggendorff illusion: Support for the depth-processing theory. *Psychological Science, 13*, 306-312.
- Wells, C., Ward, L. M., Chua, R., & Inglis, J. T. (2005). Touch noise increases vibrotactile sensitivity in old and young. *Psychological Science, 16*, 313-320.

Reading List for Reaction Papers



Methodologies (due 8/28):

- Engel, S. A. (1999). Using neuroimaging to measure mental representations: Finding color-opponent neurons in visual cortex. *Current Directions in Psychological Science, 8*, 23-27.

Form (due 9/25):

- Todd, J. T., Oomes, A. H. J., Koenderink, J. J., & Kappers, A. M. L. (2004). The perception of doubly curved surfaces from anisotropic textures. *Psychological Science, 15*, 40-46.

Color (due 10/4):

- Lindsey, D. T., & Brown, A. M. (2002). Color naming and the phototoxic effects of sunlight on the eye. *Psychological Science, 13*, 506-512.

Depth / Size (due 10/18):

- Nawrot, M., Nordenstorm, B., & Olson, A. (2004). Disruption of eye movements by ethanol intoxication affects perception of depth from motion parallax. *Psychological Science, 15*, 858-865.

Motion (due 10/25):

- Suzuki, S. & Peterson, M. A. (2000). Multiplicative effects of intention on the perception of bistable apparent motion. *Psychological Science, 11*, 202-209.

Auditory Perception (due 11/1):

- Guttman, S. E., Gilroy, L. A., & Blake, R. (2005). Hearing what the eyes see: Auditory encoding of visual temporal sequences. *Psychological Science, 16*, 228-235.

Auditory Perception (due 11/13):

- Holt, L. L. (2005). Temporally nonadjacent nonlinguistic sounds affect speech categorization. *Psychological Science, 16*, 305-312.

Skin Senses (due 11/20):

- Hötting, K., & Röder, B. (2004) Hearing cheats touch, but less in congenitally blind than in sighted individuals. *Psychological Science, 15*, 60-64.

Olfaction (due 11/30):

Djordjevic, J., Zatorre, R. J., Petrides, M., & Jones-Gotman, M. (2004). The mind's nose: Effects of odor and visual imagery on odor detection. *Psychological Science, 15*, 143-148.

Gustation / Taste (due 12/4):

Schiffman, S. S., Brevick, G. G., Sattely-Miller, E. A., & Warwick, Z. S. (1998). Orosensory perception of dietary fat. *Current Directions in Psychological Science, 7*, 137-143.