

**Psychology 357: Experiments in Cognitive Science: Human Information Processing
Spring Semester, 2001**

Required Readings

- R1** Landauer, T. K. (1972). Experimental method and design. In *Psychology: A brief overview*. N.Y.: McGraw Hill. Pp. 314-320.
- R2** Spoehr, K. T. and Lehmkuhle, S. W. (1982). *Visual information processing*. San Francisco: W. H. Freeman. Pp. 94-105.
- R3** Palmer, S. (1999). *Vision science: Photons to phenomenology*. Cambridge, MA: MIT Press. Pp. 573-582.
- R4** Selections (54 pp.) from Sternberg, S. (1998). "Discovering mental processing stages: The method of additive factors", Ch. 14 in D. Scarborough & S. Sternberg (Vol. Eds.) & D. N. Osherson (Series Ed.), *An Invitation to Cognitive Science, Volume 4: Methods, Models, and Conceptual Issues*. Cambridge, MA : MIT Press. Pp. 703-863.
- R5** Selections (pp. 635-662) from Swets, J. A. (1998). "Separating discrimination and decision in detection, recognition, and matters of life and death." Ch. 13 in D. Scarborough & S. Sternberg (Vol. Eds.) & D. N. Osherson (Series Ed.), *An Invitation to Cognitive Science, Volume 4: Methods, Models, and Conceptual Issues*. Cambridge, MA : MIT Press. Pp. 635-702.
- R6** Rayner, K. and Pollatsek, A. (1989). *The psychology of reading*. N.J.: Prentice Hall. Pp. 75-83.
- R7** Johnston, J. (1978). A test of the sophisticated guessing theory of word perception, *Cognitive Psychology, 10*, 123-153.
- R8** Sternberg, S. (1969) Memory-scanning: Mental processes revealed by reaction-time experiments. *American Scientist, 57*, 421-457.
- R9** Greene, R. L. (1992) *Human memory: Paradigms and paradoxes*. Hillsdale, NJ: Lawrence Erlbaum Associates, Pp. 101-112.
- R10** Pashler, H. (1993). Doing two things at the same time. *American Scientist, 81*, 48-55.
- R11** Selections (69 pp.) from Sternberg, S. (1998) "Inferring mental operations from reaction-time data: How we compare objects." Ch. 9 in D. Scarborough & S. Sternberg (Vol. Eds.) & D. N. Osherson (Series Ed.), *An Invitation to Cognitive Science, Volume 4: Methods, Models, and Conceptual Issues*. Cambridge, MA : MIT Press. Pp. 365-454.
- R12** Wright, C. E. (1990). Control of sequential motor activity. In D. N. Osherson, S. M. Kosslyn, & J. M. Hollerbach *An invitation to cognitive science, Vol 2: Visual cognition and action* (First Edition). Cambridge, MA: MIT Press. Pp. 286-316.
- R13** Rosenbaum, D., Kenny, S. and Derr, M. (1983). Hierarchical control of rapid movement sequences. *Journal of Experimental Psychology: Human Perception and Performance, 9*, 86-102.

