

# HUMAN NEUROPSYCHOLOGY

## PSYCHOLOGY 449

SPRING QUARTER 1996

T, TH 12:30 - 1:50

142 Straub

Instructor: **Helen J. Neville**  
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| <u>Week</u> | <u>Date</u>  | <u>Topic</u>                                       | <u>Readings</u>                       |
|-------------|--------------|--|---------------------------------------|
| 1           | 4/2<br>4/4   | Background and Issues in<br>Cognitive Neuroscience | *Ch. 1-9                              |
| 2           | 4/9<br>4/11  | Techniques in Cognitive<br>Neuroscience            | Ch. 1-9                               |
| 3           | 4/16<br>4/18 | Sensory Development &<br>Plasticity                | Ch. 21 & 23                           |
| 4           | 4/23<br>4/25 | Object Recognition,<br>Face Perception             | Ch. 11 & 12; pp. 295-298<br>Reading 2 |
| 5           | 4/30<br>5/2  | Attention<br>Attention                             | Ch. 19 & 20<br>Readings 3 & 4         |
| 6           | 5/7<br>5/9   | Attention & Review<br><b>MIDTERM EXAM</b>          | Reading 5                             |
| 7           | 5/14<br>5/16 | Memory<br>Memory                                   | Ch. 16<br>Readings 6 & 7              |
| 8           | 5/21<br>5/23 | Memory<br>Language                                 | Ch. 17                                |
| 9           | 5/28<br>5/30 | Language<br>Language                               | Reading 8                             |
| 10          | 6/4<br>6/6   | Experience & Brain<br>Development                  | Ch. 10 & 22                           |
| 11          | 6/12         | <b>FINAL EXAM (Wednesday)</b>                      | <b>8:00 am</b>                        |

## Required Readings:

\*Chapters are in reading #1 which is the required textbook and is available at the UO Bookstore. All other readings are from readings packet, which is also available at the UO Bookstore.

1. Kolb, B., & Wishaw, I. Q. (1996). Fundamentals of human neuropsychology (4th edition). New York: W. H. Freeman & Co.
2. Damasio, A. R. (1985). Disorders of complex visual processing: Agnosias, achromatopsia, balint's syndrome, and related difficulties of orientation and construction. In Principles of Behavioral Neurology. M-Marsel Mesulam, (Ed.), Philadelphia, F. A. Davis, Co. pp 259-288.
3. Posner, M.I., Petersen, S. E. (1990). The attention system of the human brain. Annu. Rev. Neurosci., 13: 25-42.
4. Hillyard, S.A. & Picton, T.W. (1987). Electrophysiology of cognition. In: Handbook of physiology section I: The nervous system V higher functions of the brain, Part II (Plum F, ed), pp 519-584. Bethesda, MD: American Physiological Society, pp 534-546.
5. Neville, H. J. (1990). Intermodal competition and compensation in development: Evidence from studies of the visual system in congenitally deaf adults. In: The development and neural bases of higher cognitive function (Diamond A, ed), pp 71-91. New York: New York Academy of Sciences Press.
6. Squire, L. R. , Knowlton, B., and Musen, G. (1993). The structure and organization of memory, Annual Review of Psychology, 44, 453-495.
7. Hillyard, S.A. & Picton, T.W. (1987). Electrophysiology of cognition. In: Handbook of physiology section I: The nervous system V higher functions of the brain, Part II (Plum F, ed), pp 519-584. Bethesda, MD: American Physiological Society, pp 559-571.
8. Neville, H. J., Mills, D. L., and Lawson, D. S. Fractionating Language: Different Neural Subsystems With Different Sensitive Periods, Cerebral Cortex, 2, 244-258, 1992.

Grading: Midterm = 40%

Final = 60%

(Optional: Midterm = 35%, Final = 55%, Paper = 10%)