

Department of Psychology Psychology 507.34 - Neuropsychology and Cognitive Neuroscience Fall 2008 RDC

Instructor: Dr. R. S. Sainsbury Lecture Location: TBA

Phone: Lecture Days/Time: Wed 12-2:45

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Office:

Office Hours: TBA

Course Description

This course examines the cognitive deficits associated with brain damage in humans. It will also examine brain correlates of cognition.

Required Text

Kolb, B & Wishaw I. Fundamentals of Human Neuropsychology (6 ed.). Freeman.

Evaluation

Tests One Midterm 50% Time Oct.22, Chapters 26,3,6,8,9,13,15,23,24 plus lectures.

Essay format.

One Final 50% (scheduled by Registrar's Office) remainder of text plus

lectures. Essay format.

Grading Scale

A+	96-100%	B+	80-84%	C+	67-71%	D+	54-58%
A	90-95%	В	76-79%	C	63-66%	D	50-53%
A-	85-89%	В-	72-75%	C-	59-62%	F	0-49%

As stated in the University Calendar, it is at the instructor's discretion to round off either upward or downward to determine a final grade when the average of term work and final examinations is between two letter grades. To determine final letter grades, final percentage grades will be rounded up or down to the nearest whole percentage (e.g., 89.5% will be rounded up to 90% = A but 89.4% will be rounded down to 89% = A-).

Lecture Schedule (dates TBD)

- A. Introduction and Basic Anatomy
- B. Assessment of Cognitive Deficits in the Brain-Injured Patient (Overview)
 - I. The Nature of Neuropsychological Deficits
 - II. Localized vs. Nonspecific Deficits
 - III. Lateralizing and Localizing Signs and Deficits
 - IV. Left Parietal Lobe Disorders
 - V. Symptoms of Right Hemisphere Disorder
 - VI. Frontal lobe Signs
 - VII. Amnesic Syndromes

- VIII. Agnosias
- IX. Tests
- C. Developmental Neuropsychology
 - I. Protoreptilian Brain
 - II. Paleomammalian Brain
 - III. Neomammalian Brain
 - IV. Implications of the Triune Concept of Brain Development
 - V. Developmental Neurology
 - VI. Abnormal Neuropsychological Development
- D. Frontal Lobes
 - I. The Orbitofrontal Cortex and Emotion
 - II. Psychiatric Surgery
 - III. Major Motor and Processing Deficits of Frontal Lobe Damage in Man and Animals
- E. Parietooccipital Lobes
 - I. Constructional Apraxia
 - II. Asferognosia
 - III. Finger Agnosia
 - IV. Spatial Agnosia
 - V. Visual Agnosias
 - VI. Agraphia
- F. Temporal Lobes
 - I. Integration of Temporal Lobe with Other Association Areas
 - II. Temporal Lobe Epilepsy
 - III. Motor Sensory Function
 - IV. Temporal Lobes and Emotion
- G. Cerebral Dominance
 - I. Embryogeny of Left-Right Differences
 - II. Survey of CNS Anatomical Asymmetries in Animals and Man
 - III. Left-Right Asymmetries in Primates
 - IV. Functional Asymmetries in Man
- H. Disorders of Learning and Memory
 - I. The Temporal Lobe Syndrome
 - II. Cerebral Anoxia
 - III. Senility
 - IV. ECT
 - V. The Animal Model of Memory
- I. Brain Correlates of Cognition
 - (a) Focal Brain Injury
 - I. FMRI and Pet Scans
 - II. Emotion
 - III. Perception
 - IV. Memory

University of Calgary Curriculum Objectives

The lectures are designed to maximize student participation. This includes exercising in critical and creative thinking. All exams are in essay format which will provide experience in written communication.

Reappraisal of Grades:

IMPORTANT: A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded shall discuss the work with the instructor within **fifteen days** of being notified about the mark or of the items' return to the class. No reappraisal is permitted after the fifteen-day period. The lecturer must approve any tape recordings of lectures.

Plagiarism and Other Academic Misconduct:

Intellectual honesty is the cornerstone of the development and acquisition of knowledge and requires that the contribution of others be acknowledged. Consequently, plagiarism or cheating on any assignment is regarded as an extremely serious academic offense. Students should examine sections of the University Calendar which present a Statement of Intellectual honesty and definitions and penalties associated with Plagiarism/Cheating/and Other Academic Misconduct.

Academic Accommodation:

It is a student's responsibility to request academic accommodation. If you are a student with a disability who may require academic accommodation and **have not** registered with Disability Services, please contact the RDC Counseling and Learning Support Services Office (Ph. 343-4064 or 343-4067). If you are seeking academic accommodation, please notify your instructor no later than fourteen (14) days after the commencement of the course.

Absence From A Test:

A completed Physician/Counsellor Statement may be required to confirm absence from a test for health reasons. The student will be required to pay any cost associated with the Physician Counsellor Statement.

Important Dates:

The last day to drop this course and still receive a fee refund is **September 19th**, 2008. The last day to withdraw from this course is **December 5th**, 2008.