

COGNITIVE NEUROSCIENCE
PSYCHOLOGY 605, Section N - Fall, 2007

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 Office Hours: T, TH 9:15 - 10:45 a.m.

COURSE OVERVIEW: Cognitive Neuroscience is a Departmental core course that is designed to provide graduate students in all Departmental tracks with a basic understanding of the neurobiological bases of cognitive processes and behavior. Throughout the semester we will discuss history and systems in cognitive neuroscience, and research methodology used to study brain function. The course is taught at a level that assumes some basic understanding of brain and behavior, but does not require an extensive background in neuroscience, biology, or chemistry. The goal of the course is for each student to achieve an understanding of fundamental brain processes in higher mental processes and more basic human behavior.

RECOMMENDED TEXT: Cognitive Neuroscience: The Biology of the Mind; Gazzaniga, Ivry, & Mangun, 2002.

EXAMS: There will be two hourly exams and a non-cumulative final exam. Each of the exams will count for one-third of the course grade. The final is scheduled for Tuesday, December 11 at 8:00 - 10:30 a.m. All makeup exams will be given immediately after the final exam. Missing more than one exam will result in a failing grade.

ATTENDANCE: Class attendance is strongly recommended since at least half of the exam material will come from lectures.

ACADEMIC HONESTY STATEMENT: As per policy of the Department of Psychology penalty for cheating and/or plagiarism will be enforced on all tasks and class assignments. Cheating will not be tolerated. It is expected that all students will maintain the standards of academic honesty. Cheating or plagiarism can be reason for failure of this course.

<u>Date</u>	<u>Topic</u>	<u>Required Reading</u>
August	23	HISTORY & SYSTEMS, RESEARCH METHODS
	28	THE NERVOUS SYSTEM: Neuroanatomy
	30	Neuroanatomy
September	4	Neurophysiology
	6	Neurophysiology
	11	Neurochemistry
	13	Neurochemistry
	18	Hormones / Neuromodulators
	20	Neural Development--Wiring the Brain
	25	EXAM I
	27	SENSORY SYSTEMS: Vision
October	2	Vision
	4	Visual Perception
	9	Attention
	11	MOTOR SYSTEMS: Spinal / Peripheral
	16	Central Motor Systems
	18	EMOTION
	23	Stress and Coping
25	Behavioral Medicine	
November	30	EXAM II
	1	LEARNING AND MEMORY: Laws of Learning
	6	Cellular Basis of Learning & Memory
	8	Human Memory
	13	CEREBRAL CORTEX
	15	Cortex: Lateralization, Specialization, & Language
	20	Executive Functions & Frontal Lobes
	22	NO CLASS--Thanksgiving Holiday
27	Epilepsy, Brain Damage and Recovery of Function	
December	29	BIOLOGICAL BASES OF ABNORMAL BEHAVIOR
	11	FINAL EXAM-8:00-10:30 a.m.