NEUROANATOMY

NEUROSCIENCE/PSYCHOLOGY 697, Fall 2007

TIME: Friday, **1:15- ~ 4 p.m**.

PLACE: RMSB 6018

Dr. Ed Green
284-5526
(Office hours by appointment)

DESCRIPTION: This course is designed to teach functional neuroanatomy to individuals engaged in basic neuroscience research. Therefore, most of the emphasis will be placed upon gross anatomy, identification of pathways and circuits, and a description of the physiological functions of neuroanatomical systems. To the extent that it may help to explain functional aspects of the nervous system, each lecture will contain some clinical examples and/or case histories. An important feature of each class period will be a laboratory segment in which the student will perform dissections of human brains and sheep brains, examine models of the brain, and use internet neuroanatomy websites containing pictures, text, clinical examples, and 3-dimensional rotations of the nervous system.

TEXTBOOK: Neuroanatomy: Text and Atlas, J.H. Martin, 3rd ed., 2003

EXAMS: There will be two laboratory practical exams during the semester and a cumulative final exam. Each practical will account for 25% of the course grade and the final exam will account for 40%. The remaining 10% of the course grade will include classroom attendance, laboratory participation, and participation in discussions.

ATTENDANCE: Classroom and laboratory attendance is strongly encouraged and will account for a significant portion of the final grade.

ACADEMIC HONESTY STATEMENT: As per policy of the University of Miami, the 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 a reason for failure of this course.

Course Schedule

Date		Topic	Required Reading
Aug.	24	Overview; Vasculature, Ventricles, Meninges, Cranial Nerves	1, 4
	31	Spinal Cord & Peripheral Nervous System	2,5,6
Sept	7	Somatosensory System	
	14	LAB PRACTICAL 1	
	21	Visual System	7
	28	Auditory /Vestibular System; Chemical Senses	9, 12
Oct.	5	Descending Motor Pathways; Basal Ganglia	11, 14
	12	NO CLASS -- Neuroscience Program Retreat	
	19	NO CLASS - Fall Recess	
	26	Basal Ganglia; Cerebellum	13
Nov	2	LAB PRACTICAL 2	
	9	Diencephalon; Endocrine/Visceral Control; Monoamine Pathways	15
	16	Limbic System	16
	23	NO CLASS--Thanksgiving Holiday	
Dec.	2	Cerebral Cortex & Higher Function	16
	5	FINAL EXAM--LAB PRACTICAL 3 (Comprehensive)	