# **ANAT 7575** Graduate Neuroscience

#### Goals

To acquire knowledge and develop skills in dissection-oriented neuroanatomy and neuroscience, and its application and relevance to human physiology and clinical disease.

## **Course format**

This course provides in-depth knowledge of neuroanatomy and neuroscience. It includes dissection lab. Students attend classes with first-year medical students.

#### Grading

Grade will be calculated according to the following schematic:

Block exams (written and practical) Peer evaluation

A final of B- or above is required to pass this course.

Block I 1, Course Introduction & Schedule/	5, Introduction to the Brainstem, Dr. Blask
Overview of the Brain, Dr. Blask	
2, Overview of the Brain, Dr. Blask	6, Long Tracts of the Brainstem, Dr. Blask
3, Spinal Cord, Mr. Mascorro	7, Intrinsic Brainstem Nuclei & Tracts, Dr. Blask
4, Development of the Nervous System, Mr. Mascorro	8, Cranial Nerve Nuclei, Dr. Blask
Block II	
9, Thalamus, Dr. Mendoza	16, Motor Cortex, Dr. Kreisman
10, 11, Cortex: Layers, Maps and	17, Upper and Lower Motoneurons, Mr.
Reorganization, and Higher Function, Dr. Mendoza	Mascorro
12. Somatosensory Pathways: Mr. Mascorro	18, Basal Ganalia, Dr. Mendoza
13, Somatosensory Receptors; Dr. Kreisman	19, Cerebellum, Mr. Mascorro
14, Somatosensory Cortex; Dr. Kreisman	20, 21, Neurotransmitters, Receptors, Disorders of Neurotransmitters, Dr. Tasker
15, Motor Reflexes, Dr. Kreisman	Dr. Mendoza's Review for Exam II
Block III	
22, Hippocampus and Amygdala; Limbic	29, Visual Pathways, Dr. Wang
System, Dr. Mendoza	
23, Frontal Lobes, Dr. Mendoza	30 & 31, Retinal Physiology; Central Visual Physiology, Dr. Derbenev
24, EEG, Dr. Kreisman	32, Auditory Pathways, Dr. Blask
25, Epilepsy, Dr. Kreisman	33, Vestibular Pathways, Dr. Blask
26, Ventricular System CSF, Mr. Mascorro	34, Hypothalamic Control I, Dr. Blask
27, Blood Flow and Brain Metabolism, Dr. Kreisman	35, Hypothalamic Control II, Dr. Blask
28, Stroke Mechanisms, Ischemic Cascade,	36, Neural Regulation of Circadian
Dr. Kreisman	Rhythms, Dr. Blask

**Course Director**: Dr. David Blask

Credits: 6

Dates of class: Every week as posted

#### Required:

Attend dissections Take block exams

### Grades

Final grades will be posted in Blackboard at the end of the course

100 - 94	Α
93.9 – 88	A-
87.9 – 82	B+
81.9 – 76	В
75.9 – 70	B-

Below 70 C+