ANATOMY (ANAT)

ANAT 1000 - Basic Human Anatomy
Credit(s): 3 Credits
Gross and microscopic structure of human body; emphasis on anatomical concepts, terminology, and correlation of structure and function.
Restrictions:
Enrollment limited to students in the Doisy College Health Sciences or School of Nursing colleges.

ANAT 1005 - Basic Human Anatomy
Credit(s): 3 Credits
Gross and microscopic structure of human body; emphasis on anatomical concepts, terminology, and correlation of structure and function.

ANAT 4000 - Human Gross Anatomy
Credit(s): 6 Credits
This course is an in-depth and clinically oriented study of the structure and function of human body emphasizing anatomical concepts and relationships relevant to health professionals. The course instructional format consists of a combined attribute of lecture and laboratory sessions. Cadaver dissection is required.
Restrictions:
Enrollment limited to students with a major in Athletic Training, Exercise Science, Exercise Science, Occupational Sciences or Occupational Therapy.

ANAT 4300 - AHP Neurosciences
Credit(s): 5 Credits

ANAT 4980 - Advanced Independent Study
Credit(s): 1-4 Credits (Repeatable for credit)

ANAT 5000 - Human Gross Anatomy
Credit(s): 8 Credits
Structure and function of human body; emphasis on anatomical relationships and concepts and their functional significance; dissection required. (Offered each Spring)

ANAT 5050 - Human Gross Anatomy
Credit(s): 6 Credits
This course is a highly in-depth and clinically oriented study of the structure of the human body emphasizing anatomical concepts and relationships relevant to physician assistants. The course instructional format consists of a combined attribute of lecture and laboratory sessions. Cadaver dissection is required. Must be enrolled in the Physician Assistant Program in Doisy College Health Sciences.

ANAT 5100 - Human Histology and Ultrastructure
Credit(s): 5 Credits
Microscopic anatomy of human body; emphasis on relationships between structure and function of tissues and organs. (Offered every Fall semester.)

ANAT 5200 - Human Embryology
Credit(s): 2 Credits
Prenatal human development; emphasis on correlation of normal development with development of common congenital malformations. (Offered each Fall.)
ANAT 6320 - Developmental Neurobiology
Credit(s): 2 Credits
A presentation of the principles and concepts that underlie the development of the nervous system. Lectures and discussions of assigned journal articles will cover neurogenesis, neuronal differentiation, the formation of functional neural circuit and regressive phenomena during brain development. Offered occasionally.
Prerequisite(s): ANAT 5300; ANAT 6300; ANAT 6340

ANAT 6340 - Cellular Neurobiology
Credit(s): 4 Credits
The basic concepts of nervous system function including neuronal structure and function, structure and function of neuroglia, physical-chemical properties of the resting neuron, electrophysiology of the active neuron, pharmacology and electrophysiology of the synapse, transmitter substances and receptors, and effector systems will be presented in this course. Offered every Fall semester.

ANAT 6370 - Chm Neuro of Basal Forebrain
Credit(s): 2 Credits
The organization of the mammalian basal forebrain, including the basal ganglia, in terms of the distribution within neurons and axon terminals of the classical and peptide neurotransmitter/neuromodulator candidates. Changes in organization that occur in neurological disorders will also be covered. Lectures and directed and independent readings will be featured. Offered every Spring semester.
Prerequisite(s): ANAT 5300; ANAT 6340

ANAT 6400 - Introduction to Neuroscience Research I
Credit(s): 2 Credits
Exposure to research activities in department by rotation through faculty research laboratories. Offered every semester.

ANAT 6410 - Introduction to Neuroscience Research II
Credit(s): 2 Credits
Fundamental techniques and instrumentation used in neurobiological research; emphasis on principles underlying techniques and interpretation of results. Offered every spring semester.

ANAT 6500 - Somatic-Visceral Interactions
Credit(s): 2 Credits
This course offers a forum for discussions on the neural control of visceral function and its modulation by somatic stimuli. Some didactic lectures will be given but most of the course will require reading and discussion of assigned journal articles and the writing of a short exam. Offered every spring semester.
Prerequisite(s): ANAT 5300; ANAT 6340

ANAT 6670 - Visual Neuroscience
Credit(s): 2 Credits
Overview of visual processing, from chemical mechanism of transduction by retinal photoreceptors to anatomical and physiological correlates of visual perception in cerebral cortex. Assigned readings on analysis of receptive field properties, mechanisms of dark and light adaptation, sensation of color and control of ocular reflexes. Human visual dysfunctions included. Offered every spring semester.
Prerequisite(s): ANAT 5300

ANAT 6890 - Anatomy & Neurobiology Seminar
Credit(s): 1 Credit
Selected topics in anatomy. Attendance and participation required for all M.S.(R) and Ph.D. students. Offered every fall and spring semester.

ANAT 6900 - Anatomy Journal Club
Credit(s): 1 Credit
Selected topics in anatomy. Attendance and participation required for all M.S.(R) and Ph.D. students.

ANAT 6950 - Special Study for Exams
Credit(s): 0 Credits (Repeatable for credit)

ANAT 6970 - Research Topics
Credit(s): 0-3 Credits (Repeatable for credit)
May be repeated. Titles of topics must be registered.

ANAT 6980 - Graduate Reading Course
Credit(s): 0-3 Credits (Repeatable for credit)

ANAT 6990 - Dissertation Research
Credit(s): 0-6 Credits (Repeatable for credit)