ANATOMY (ANATOMY)

ANATOMY/KINES 328 — HUMAN ANATOMY
3 credits.

Lectures. Structure of the human body.
Requisites: Admission to professional curric in nursing, pre-nursing, or pre-physician assistant program
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Summer 2017

ANATOMY/KINES 329 — HUMAN ANATOMY-KINESIOLOGY
2 credits.

Required for dance-related majors. Open to Fr
Requisites: Kinesiology major; kinesiology majors must take ANATOMY/KINES 328 prior to or concurrent with ANATOMY/KINES 329.
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2017

ANATOMY 429 — HUMAN ANATOMY LABORATORY FOR PHYSICIAN ASSISTANTS
5 credits.

Prosected specimens and some supervised dissection.
Requisites: Admission to phy asst professional curric or cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Summer 2017

ANATOMY/NTP/PHYSIOL/PHMCOL-M/PHYSICOL/PSYCH 611 — SYSTEMS NEUROSCIENCE
4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.
Requisites: PHYSIOL/NTP/PHMCOL-M 610
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2017

ANATOMY 622 — HUMAN ANATOMY-PHYSICAL THERAPY, OCCUPATIONAL THERAPY
6 credits.

Gross human anatomy involving complete dissection of the human body. Special emphasis is placed on the musculoskeletal and peripheral nervous systems, and living subject and surface anatomy.
Requisites: Admission to phys or occ therapy professional program, or cons inst
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Summer 2017

ANATOMY/NTP/PHYSIOL 625 — BRAIN CELL CULTURES AND IMAGING: A LAB COURSE
4 credits.

Hands-on laboratory training in neuronal cell culture, live and fixed neuron labeling and microscopy techniques to visualize neurons in culture, as well as image analysis methods. Enrollment limited to 12 students, authorized by cons inst
Requisites: Intro crses in biochem, cell biology anatomy.
Course Designation: L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2013

ANATOMY/NTP/PHYSIOL 630 — NEURONAL MECHANISMS FOR SENSATION AND MEMORY IN CEREBRAL CORTEX
3 credits.

Current literature will be considered in lectures and discussions that provides insight into how the cerebral cortex processes sensory information to generate and store cogent representations of the external world. The course includes laboratory exercises and demonstrations.
Requisites: Intro neurosci crse highly recommended: Neurosci/Anat/Phmcol/PHYSIOL/ANATOMY/NTP/PHMCOL-M/PSYCH 611, MED SCI-M 731, COMP BIO 505, Zool/Neurosci/PSYCH/ZOOLOGY 523, Psych/Neurophy/Neurosci/Zool 524; or cons inst
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2017

ANATOMY 637 — FUNCTIONAL NEUROANATOMY
3 credits.

For physical therapy and occupational therapy majors. Motor and sensory systems under normal and altered conditions.
Requisites: ANATOMY 622, with a grade of C or better, is a prerequisite for ANATOMY 637.
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2014
ANATOMY/AN SCI 660 — ELECTRON MICROSCOPY: THEORY & PRACTICE
3 credits.

**Requisites:** Cons inst  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Summer 2011

ANATOMY 675 — TOPICS IN ANATOMY
1-3 credits.

Special topics in anatomy. See footnote in Timetable for specific topic.  
**Requisites:** Vary according to topic  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

ANATOMY 699 — INDEPENDENT STUDY
1-4 credits.

**Requisites:** Consent of instructor  
**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2015

ANATOMY 700 — CYTOSKELETAL DYNAMICS
2 credits.

Course content is topical and current. The course covers such issues as microtubule dynamics, microtubule-associated proteins, microtubule-organizing centers, actin filaments, actin regulatory proteins, intermediate filaments, cell motility, mitosis, process outgrowth, and cell differentiation.  
**Requisites:** Grad st or Sr with cons inst; ZOOLOGY 570 or equiv  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2014

ANATOMY/M M & I 710 — CELL STRUCTURE AND FUNCTION
3 credits.

An interdisciplinary course that highlights structure and function at the cellular level as related to health and disease states.  
**Requisites:** Declared in Medical program  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2015

ANATOMY 711 — INTEGRATED MEDICAL ANATOMY
4 credits.

Thorough progression in the dissection of the human body and in descriptive and functional human anatomy. Second semester only open to medical students.  
**Requisites:** Declared in Medical program  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2016

ANATOMY/RADIOL 722 — CLINICAL ANATOMY AND RADIOLOGY
4 credits.

Anatomy and surgery of head and neck, body wall, cavities and pelvic outlet. Hands on experience in interpreting radiological cross-sectional images.  
**Requisites:** Anat 711, Sr Med or Grad st  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2016

ANATOMY/NTP/ZOOLOGY 765 — DEVELOPMENTAL NEUROSCIENCE
3 credits.

Analysis of neural development with emphasis on experimental approaches. Combination of lectures and discussions of primary literature. Topics include neural induction, patterning, mechanisms of axon guidance, neural crest cell migration and differentiation, cortical development, and synapse formation and elimination.  
**Requisites:** Grad st in biol sci; undergrads with cons inst  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2016

ANATOMY 990 — RESEARCH AND THESIS
1-9 credits.

**Requisites:** Consent of instructor  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

ANATOMY 999 — ADVANCED INDEPENDENT STUDY
1-3 credits.

**Requisites:** Consent of instructor  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Spring 2011