

449. Technical Report Writing
Winter, Spring. 4(4-0) Completion of ATL requirement, Juniors or approval of instructor.
 Use and understanding of language through writing and editing clear, concise, purposeful technical reports, letters, instructions, proposals.

ANATOMY

ANT

**College of Human Medicine
 College of Osteopathic Medicine
 College of Veterinary Medicine**

216. Applied Human Anatomy
Fall, Spring. 5(4-3) HPR major or minor.
 Structural anatomy of the various systems of the human body. Concepts of kinesiological applications.

316. General Anatomy
Fall, Spring. 5(5-0) B S 211 or B S 212 or approval of department.
 Designed to impart the basic concepts of the broad field of anatomy. Special requirements of the various disciplines will be met in their respective laboratories.

420. Microscopic Anatomy
Winter. 5(2-8) Medical Technology students or approval of department.
 Microscopic study of the structure of cells, tissues and organs.

480. Special Problems
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 15 credits. Approval of department.
 Individual study or project under the direction of a faculty member in biomedical research, gross anatomy, histology, neurology, or embryology.

505A. Anatomy in Physical Diagnosis
Fall. 1 to 3 credits. H M 505 concurrently.
 Exercises in which students study systemic anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.

505B. Anatomy in Physical Diagnosis
Winter. 1 to 3 credits. ANT 505A or approval of department.
 Exercises in which students study regional anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.

505C. Anatomy in Physical Diagnosis
Spring. 1 to 3 credits. ANT 505B or approval of department.
 Exercises in which students study regional anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.

510. Veterinary Gross Anatomy
(521.) Summer. 6(3-9) Admission to professional veterinary program.
 Gross anatomy of a representative animal, the dog, is studied. Lecture, dissection of embalmed specimen, study of prosections, slides, models and living animals.

511. Veterinary Histology
(520.) Summer. 4(2-6) First-term Veterinary Medicine students.
 A general histology course for veterinary students which includes a survey of the tissue of the animal body.

512. Veterinary Neuro Anatomy
Summer. 2(2-0) First-term Veterinary Medicine students.
 Gross anatomy of the central nervous system in animals emphasizing functional and dysfunctional aspects of pathways and nuclei in dogs as a foundation for clinical neurology.

513. Veterinary Microscopic Anatomy
(522) Fall. 5(3-6) Second-term Veterinary Medicine students.
 Microscopic anatomy of the digestive, urinary, respiratory, male and female reproductive systems, integumentary system, central nervous system and special sense organs of domesticated animals.

514. Veterinary Comparative Anatomy
(523.) Fall, 4(2-6) Second-term Veterinary Medicine students.
 Lecture, dissection of embalmed specimens and the study of prosections, models and live animals related to the anatomy of the domestic animals.

540. Cross Biomedical Structure
Winter. 1 to 15 credits. May reenroll for a maximum of 15 credits. Admission to a college of medicine; graduate students with approval of department.
 Regional gross anatomy of the back, thorax, abdomen, pelvis and perineum.

541. Cross Biomedical Structure
Spring. 1 to 15 credits. Admission to a college of medicine; graduate students with approval of department.
 Regional gross anatomy of the head and neck.

542. Cross Biomedical Structure
Fall. 1 to 15 credits. Admission to a college of medicine; graduate students with approval of department.
 Regional gross anatomy of the limbs.

543. Microscopic Anatomy
Winter. 3(1-3) Human Medicine students; approval of department for graduate students.
 The principles of microscopic anatomy, utilizing self-instructional units and laboratory experience with organ sections viewed through the light microscope.

544. Human Ontogenesis
Fall. 3(3-0) Admission to a college of medicine; graduate students with approval of department.
 Formal lectures, class conferences and student reports on the normal and abnormal organogenesis of the human embryo and fetus with emphasis on clinical correlations.

545. Neuroanatomy
Spring. 3(4-0) Admission to medical school or approval of Neuroscience Committee.
 Introduction to gross and microscopic anatomy of the human nervous system, to related basic neurophysiologic concepts and to a problem-solving approach to the diagnosis of nervous system disease.

560. Medical Histology
Summer. 4(3-4) Admission to a college of medicine or approval of department.
 Structural and functional characteristics of basic cells, tissues and organ systems. Emphasis on core concepts and visual discrimination.

563. Osteopathic Medical Neuroanatomy
Fall. 4(3-4) Admission to a college of medicine; graduate students with approval of department.
 Medically oriented problem-solving neuroanatomy with laboratory. Structure of the human nervous system is correlated with normal function, clinical testing and classical lesions encountered in medical practice.

565. Introduction to Human Gross Anatomy
Summer. 6(4-6) Admission to a college of medicine or approval of department.
 Core concepts in regional, systemic and topographical human gross anatomy: Prosection, discussion and lecture methods using audiovisual aids and frequent review.

580. Special Problems
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 15 credits. Admission to professional program in the College of Human Medicine, College of Osteopathic Medicine or the College of Veterinary Medicine, and approval of department.
 Biomedical research, gross anatomy, histology, neurology, immunology or embryology.

813. Problems in Anatomy
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 15 credits. Basic disciplines in various areas and approval of department.
 Various anatomical fields such as gross anatomy, histology, hematology, tissue culture, cytology, neurology and embryology will be studied.

815. Anatomy of the Nervous System
Fall. 5(3-5) Approval of department.
 Developmental, gross and microscopic anatomy of the nervous system. Organizational and functional aspects of the peripheral and central nervous system are stressed. Gross demonstrations include brain and dog dissections.

816. Developmental Anatomy
Fall. 4(3-3) Graduate students or approval of department.
 Study of the normal and abnormal organogenesis of the human embryo and fetus.

891. Concepts in Tumorigenesis
Winter of even-numbered years. 2(2-0) Approval of instructor.
 In depth evaluation of the current concepts in tumorigenesis emphasizing the experimental results from which these concepts evolved.

899. Research
Fall, Winter, Spring, Summer. Variable credits. Majors.

999. Research
Fall, Winter, Spring, Summer. Variable credit. Majors.