HUMAN ANATOMY  ANTR

Department of Radiology
College of Human Medicine

350  Human Gross Anatomy and Structural Biology
Fall, Spring. 3(4-0) P: BS 111 or BS 149H or LB 145 R: Not open to freshmen or approval of department. SA: ANT 316, ANTR 316

401  Quantitative Human Biology
Spring. 3(4-0) Interdepartmental with Biomedical Engineering and Materials Science and Engineering and Radiology. Administered by Biomedical Engineering. P: (MTH 235 and PHY 184) and ([PSL 250 or concurrently) or (ANTR 350 or concurrently) or (ANTR 350 or concurrently) or (CEM 141 or CEM 151) RB: (CSE 131 or concurrently) or (CSE 231 or concurrently) or PSL 410
Qualitative description and quantitative engineering analysis of selected, tractable human biological systems. Multi-disciplinary problem-solving among medical and engineering professionals.

480  Special Problems in Anatomy
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 15 credits in all enrollments for this course. R: Approval of department. SA: ANT 480
Topics from an anatomical field such as gross anatomy, histology, tissue culture, cytology, neurology, or embryology.

485  Directed Study in Human Prosection
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 15 credits in all enrollments for this course. P: ANTR 350 or ZOL 328 or KIN 217 R: Open only to juniors or seniors.
Prosection of selected regions and isolated structures of preserved human cadavers.

534  Cell Biology and Physiology I
Fall. 3 credits. Interdepartmental with Biochemistry and Molecular Biology and Physiology. Administered by Physiology. R: Open only to graduate-professional students in the College of Human Medicine or College of Osteopathic Medicine.
Modern concepts of cell biology as a basis for understanding the physiology of human tissues and organ systems in health and disease.

535  Cell Biology and Physiology II
Spring. 4 credits. Interdepartmental with Biochemistry and Molecular Biology and Physiology. Administered by Physiology. R: Open only to graduate-professional students in the College of Human Medicine or the College of Osteopathic Medicine.
Modern concepts of cell biology as a basis for understanding the physiology of human tissues and organ systems in health and disease. Continuation of PSL 534.

551  Medical Gross Anatomy
Fall, Summer. 6(4-6) R: Open to students in the College of Human Medicine or in the College of Osteopathic Medicine or approval of department. SA: ANT 551
Human regional gross anatomy with clinical correlations using projections, cross-sections, medical imaging, and multimedia.

552  Medical Neuroscience
Spring. 4(3-2) Interdepartmental with Neurology and Ophthalmology and Physiology and Radiology. Administered by Neurology and Ophthalmology. R: Open only to graduate-professional students in the Colleges of Human Medicine and Osteopathic Medicine. SA: ANT 552
Correlation of normal structure and function of the human nervous system with clinical testing, classical lesions, and common diseases.

585  Directed Study in Human Prosection
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 15 credits in all enrollments for this course. P: ANTR 551 R: Open only to graduate-professional students in the College of Human Medicine or College of Osteopathic Medicine and approval of department.
Prosection of selected regions and isolated structures of preserved human cadavers. Oral presentation.

590  Special Problems In Human Anatomy
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 15 credits in all enrollments for this course. RB: Approval of department.
Supervised study of a specific topic from gross anatomy, histology, tissue culture, cytology, neurology, or embryology.

820  Advanced Neuroanatomy
Spring. 3(2-2) Interdepartmental with Neuroscience. Administered by Neuroscience. R: Approval of department.
Current topics in anatomy and physiology processes of central nervous system cells.

839  Systems Neuroscience
Spring. 4(4-0) Interdepartmental with Neuroscience and Pharmacology and Toxicology and Physiology and Psychology and Zoology. Administered by Neuroscience. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Agriculture and Natural Resources, Natural Science, Social Science, and Veterinary Medicine. SA: ANT 839
Anatomy, pharmacology, and physiology of multicellular neural systems. Sensory, motor, autonomic, and chemo-regulatory systems in vertebrate brains.

885  Vertebrate Neural Systems
Spring of odd years. 3(2-2) Interdepartmental with Neuroscience and Physiology. Administered by Neuroscience. SA: ANT 885
Comparative analysis of major component systems of vertebrate brains. Evolution, ontogeny, structure, and function in fish, amphibians, reptiles, birds and mammals.