

HUMAN ANATOMY

ANTR

Department of Radiology College of Human Medicine

- 211 Human Tissues and Cells for Medical Illustrators**
Spring. 3(2-2) Spring: Grand Rapids. P: BS 161 or BS 181H R: Approval of department. Not open to students with credit in IBIO 408.
Elementary structure and function of human tissues, cells, and representative biomolecular classes. Virtual histology laboratory.
- 350 Human Gross Anatomy for Pre-Health Professionals**
Fall, Spring, Summer. 3(4-0) P: BS 161 or BS 181H or LB 145 R: Not open to freshmen or approval of department.
Survey of human systemic gross anatomy with clinical illustrations. Structural basis of organ system physiology. Introduction to medical terminology and clinical language.
- 355 Human Gross Anatomy Laboratory**
Fall, Spring, Summer. 1(0-3) Summer: Grand Rapids. P: ANTR 350 or concurrently R: Approval of department. SA: ANTR 381 Not open to students with credit in KIN 217.
Introductory, structured laboratory survey of human regional gross anatomy using dissections, medical imaging, and multimedia for students in allied medical fields. Correct usage and pronunciation of medical terminology.
- 440 Human Anatomic Variation**
Spring of even years. 2(2-0) P: ANTR 350 or KIN 216 or IBIO 328
Human anatomical variation including developmental, pathological and accidental.
- 485 Directed Study in Human Prosection**
Fall, Spring, Summer. 2(0-6) A student may earn a maximum of 14 credits in all enrollments for this course. P: ANTR 350 or IBIO 328 or KIN 217 or IBIO 320 R: Open to juniors or seniors. Approval of department.
Prosection of selected regions and isolated structures of preserved human cadavers.
- 490 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, cytology, neuroanatomy, or embryology.
- 510 Clinical Human Gross Anatomy and Palpatory Skills**
Summer. 8(6-6) RB: ANTR 350 R: Open to graduate-professional students in the College of Osteopathic Medicine or approval of department.
Introduction to macroscopic human structure, landmarks, and spatial relationships using laboratory prosections, multimedia, live human palpation models, and diagnostic imaging. Clinical correlations. Correct usage of clinical-anatomical language. Development of osteopathic motor skills for performing basic patient palpation.
- 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.
- 539 Principles of Cell Biology and Pathophysiology**
Fall. 4(3-2) Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics and Physiology. Administered by Physiology. R: Open to graduate-professional students in the College of Osteopathic Medicine.
Modern concepts of human cell biology as a basis for understanding integration of structure (histology) and function (physiology) in health and disease (pathology). Introduction to adaptive growth response, cell injury, inflammation, hemodynamic disorders, and tissue repair.
- 541 Gross Anatomy for Nurse Anesthetists**
Fall. 4(3-2) R: Approval of department.
Clinically oriented human regional gross anatomy for nurse anesthetists using prosections, case studies, and medical imaging.
- 551 Medical Gross Anatomy**
Fall. 6(4-6) R: Open to students in the College of Human Medicine or approval of department. SA: ANT 551
Human regional gross anatomy with clinical correlations using prosections, cross-sections, and medical imaging.
- 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 or ANTR 510 R: Open to human medicine students or osteopathic medicine students. Approval of department.
Prosection of selected regions and isolated structures of preserved human cadavers. Oral presentation.
- 590 Independent Study in Clinical Human Morphology**
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 10 credits in all enrollments for this course. RB: Admission to the College of Human Medicine or the College of Osteopathic Medicine or graduate program in the College of Nursing R: Open to human medicine students and open to osteopathic medicine students and open to graduate students in the College of Nursing. Approval of department.
Independent study of a specific topic from gross anatomy, histology, radiological anatomy, cytology, neuroscience, or embryology.
- 685 Directed Study in Clinical Prosection**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 15 credits in all enrollments for this course. P: ANTR 510 or ANTR 551 or HM 556 RB: Open to Clerkship Students in the College of Human Medicine and College of Osteopathic Medicine. R: Open to human medicine students in the College of Human Medicine and open to osteopathic medicine students in the College of Osteopathic Medicine. Approval of department.
Anatomical prosection and body-region specific pathologies.
- 839 Systems Neuroscience**
Spring. 4(4-0) Interdepartmental with Integrative Biology and Neuroscience and Pharmacology and Toxicology and Physiology and Psychology. Administered by Neuroscience. R: Open to graduate students or human medicine students or osteopathic medicine students in the College of Natural Science or in the College of Agriculture and Natural Resources or in the College of Human Medicine or in the College of Osteopathic Medicine or in the College of Social Science or in the College of Veterinary Medicine. SA: ANT 839
Anatomy, pharmacology, and physiology of multicellular neural systems. Sensory, motor, autonomic, and chemo-regulatory systems in vertebrate brains.
- 880 Advanced Human Gross Anatomy for Education or Research**
Fall of even years. 5(4-1) R: Approval of department.
Human gross anatomy using prosections, medical imaging, and multimedia resources.
- 890 Topics in Anatomy and Structural Biology**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open to graduate students. Approval of department.
Independent study in gross anatomy, histology, virtual microscopy, neuroanatomy, physical anthropology or forensic radiology.