

HS - Health Sciences

Courses numbered 100 to 299 = *lower-division*; 300 to 499 = *upper-division*; 500 to 799 = *undergraduate/graduate*.

HS 290. Foundational Human Anatomy and Physiology (5). †
General education natural science course with lab. Designed to give students a foundational understanding of the anatomy and physiology of the human body. Emphasizes the basic anatomy of each body system and develops an understanding of normal human physiologic processes of each system. Students are challenged to begin thinking clinically so as to prepare them for a future in health professions. In correlation with lectures, lab sessions are required weekly to provide a hands-on understanding of the content. Students may receive credit for only one of the following: HS 290 or BIOL 223. This is a Kansas Systemwide Transfer Course.

HS 290H. Foundational Human Anatomy and Physiology Honors (5). †
General education natural science course with lab. Designed to give students a foundational understanding of the anatomy and physiology of the human body. Emphasizes the basic anatomy of each body system and develops an understanding of normal human physiologic processes of each system. Students are challenged to begin thinking clinically so as to prepare them for a future in health professions. In correlation with lectures, lab sessions are required weekly to provide a hands-on understanding of the content. Students may receive credit for only one of the following: HS 290 or BIOL 223. This is a Kansas Systemwide Transfer Course.

HS 301. Clinical Pharmacology (3).
 Surveys therapeutic terms, drug actions, dosage, toxicology and application of drugs in the clinical setting. Prerequisite(s): BIOL 223 or HS 290 or HS 290H or equivalent, and CHEM 103 or 211 or equivalent or instructor's consent.

HS 315. Head and Neck Anatomy (2).
 An in-depth study of the landmarks, muscles, nerves and vascular supply of the head and neck region. Prerequisite(s): BIOL 223 or HS 290, and enrollment in dental hygiene program.

HS 390. Foundational Human Anatomy and Physiology II (3).
General education natural science course with lab. Designed to build upon the foundational knowledge acquired in a 5-credit hour human anatomy and physiology course. This advanced course dives deeper into the structures and functions of the human body, covering all eleven systems in detail to satisfy the 8-credit hours of human anatomy and physiology required for advanced health care programs. The course includes a combination of lectures, laboratory demonstrations, interactive discussions and projects. Critical thinking skills are fostered through the analysis of case studies enabling students to apply their knowledge to real-world situations. Prerequisite(s): HS 290 or HS 290H or BIOL 223.

HS 400. Introduction to Pathophysiology (4).
 Focuses on the essential mechanisms of disordered function which produce common diseases. Discusses some common diseases, but as examples of the basic processes covered, not as a part of an exhaustive inventory. Presents health professionals with accessible, usable and practical information they can broadly and quickly apply in their clinical or laboratory experience, or use as a basic pathophysiology course before taking the more specific professionally related pathophysiology courses. Prerequisite(s): BIOL 223 or 534 or HS 290 or HS 290H.

HS 585. Clinical Neuroscience (3).
 Serves as a foundational applied learning experience that expands on core knowledge of neuroanatomy and neurophysiology of the human body. This course is critical for students preparing for a degree in health professional programs in a variety of settings (e.g., audiology, nursing, physical therapy, physician assistant, medical degrees, speech-language pathology) or advanced degrees in the sciences (e.g., biology, exercise sciences). This course is designed to integrate the development, anatomy and physiology of the central and peripheral nervous system with clinical correlates. Students learn to integrate the normal molecular, cellular, physiological and anatomical aspects of the nervous system to understand the basis of disorders commonly encountered in clinical practice. Prerequisite(s): BIOL 223 or HS 290 or HS 290H.

HS 600. Advanced Clinical Anatomy (5).
 Structured to present the human body using a regional approach. Emphasis on learning gross anatomy with a clinical mindset. In addition to lectures, the students use prosected cadavers, skeletal specimens, radiographic films and anatomical models. Designed for those students who desire to pursue a degree within health professions and who would like to deepen their knowledge of human anatomy and its application to clinical scenarios. This course has a lab component. Prerequisite(s): BIOL 223 or HS 290 or HS 290H.

HS 600H. Advanced Clinical Anatomy Honors (5).
 Structured to present the human body using a regional approach. Emphasis on learning gross anatomy with a clinical mindset. In addition to lectures, the students use prosected cadavers, skeletal specimens, radiographic films and anatomical models. Designed for those students who desire to pursue a degree within health professions and who would like to deepen their knowledge of human anatomy and its application to clinical scenarios. This course has a lab component. Prerequisite(s): BIOL 223 or HS 290 or HS 290H.

HS 700. Gross Anatomy (6).
 Study of the structure of the human body emphasizing integration of anatomical information with human functional abilities. This course has a lab component. Prerequisite(s): four semesters of biological sciences and instructor's consent.