

MEDICINE/CONJOINT (MDCJ)

Courses

MDCJ 508. Cell Structure and Function. 8.5 Units.

A fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology, the common thread for the course, familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

MDCJ 509. Introduction to Medical Practice Management. 4 Units.

Introduction to management of a medical practice. Includes: business operations; financial, human resources, information, quality, and risk management; organizational governance; and, patient care systems.

MDCJ 510. Capstone Project. 3 Units.

Surveys literature focusing on a clinical problem addressed in the basic science courses of the first-year medical curriculum. Culminates with a term paper on the researched topic.

MDCJ 519. Foundations of Clinical Medicine. 17 Units.

An integrative course consisting of interactive, patient-centered contextual learning; along with an organ system-based curriculum throughout the first year of medical school—emphasizing development of communication and physical examination skills, professionalism, mind-body interaction, pain management, end-of-life care, child and elder abuse, domestic violence, and sexuality. Introduces human development across the life cycle.

MDCJ 520. Basis of Medical Genetics. 2 Units.

First of two courses providing foundations in genetics and molecular biology, including mechanisms for genetic information and its flow in eukaryotic cells. Introduction to causes of genetic disorders and familial disease, and genetic components of common disorders. Preparation for transition to sophomore-year clinical applications and clinical case presentations.

MDCJ 521. Applications of Clinical Genetics. 2 Units.

Second of two courses expanding upon the genetic/molecular basis of human diseases. Preparation for clinical practice and offers tools for lifelong learning.

MDCJ 527. Cell Structure and Function. 8.5 Units.

Describes basic and organ system histology relative to cell biology, immunology, and general pathology, and applies this material to general pathology. Develops skills in use of the microscope, and in diagnostic and clinical problem solving.

MDCJ 528. Evidence-Based Medicine and Information Sciences. 3.5 Units.

Promotes acquisition of the five fundamental skills of evidence-based medicine. Includes: how to ask clinically relevant questions; how to acquire answers to questions commonly asked by physicians; how to critically appraise the medical literature; how to apply results of the medical literature to patients; and how to self-assess progress in the acquisition of the foregoing skills. Begins the process of self-directed, lifelong learning.

MDCJ 530. Pathophysiology and Applied Physical Diagnosis. 11 Units.

Introduction to pathophysiologic principles underlying mechanisms of disease. Applies pathophysiologic principles to a variety of new situations that require problem solving and synthesis in a clinical context. Promotes development of clinical skills and professionalism.

MDCJ 538. Medical Neuroscience. 3.5 Units.

Provides a broad-based foundation in neuroscience. Addresses basic normal neuroanatomy and neurophysiology of the human central and peripheral nervous systems. Employs neurologic examination to evaluate central and peripheral nervous systems. Presents how to accurately localize lesions of the central and peripheral nervous systems and use technologies that can diagnose neurologic conditions.

MDCJ 539. Diseases of Neuroscience. 4 Units.

Applies tools derived from the basic building blocks of neuroanatomy and neurophysiology to the clinical neurologic examination of patients with a broad array of neurologic diseases or conditions.

MDCJ 560. Basis of Medical Genetics. 2 Units.

Lays basic foundations in genetics and molecular biology, including mechanisms for genetic information and its flow in eukaryotic cells. Introduction to causes of genetic disorders and familial disease, and genetic components of common disorders.

MDCJ 599. Medicine Conjoint Directed Study. 1-18 Units.

Individual arrangements for students to study under the guidance of a program faculty member. May include reading, literature review, lectures or other special projects. Minimum of thirty hours required for each unit of credit. Does not fulfill requirements towards the M.D. degree.

MDCJ 821. Preventive Medicine and Population Health. 1.5-6 Units.

Introduces clinical preventive medicine, quality improvement and patient safety, motivational interviewing, and care of the underserved in clinic and public health settings. Orientation to allied health professions, and complementary and alternative medicine.

MDCJ 891. Whole Person Care. 1.5-30 Units.

Offers fourth-year medical students the opportunity to explore various aspects of whole person care, film and medicine, law and medicine, tropical medicine, and patient safety.