

**Physical Diagnosis (PAST 510)** - Through a series of lectures and demonstrations, students learn the basics of physical examination techniques and the correct and efficient use of medical equipment. Each organ system is presented and components of the examination, including the general appearance, vital signs, head/ears/eyes/nose and throat, cardiopulmonary, abdominal, lymphatic and neuromuscular, are discussed. The approach to the examination of geriatric and pediatric patients is described, as is the examination of the breast, pelvic and genitourinary systems. The complete screening physical examination is discussed at the conclusion of the course, and point-of-care ultrasound as a physical examination adjunct is presented. The wide range of normal findings is the primary emphasis of the course, and clinical correlations are presented as a means of introducing abnormal findings. Students are introduced to and practice the descriptive use of medical terminology to communicate examination findings. *(4 Credits)*

**Physical Diagnosis Lab (PAST 511)** - Based on the physical examination techniques learned in the lecture portion of the course in a clinical setting, students practice non-invasive examinations on each other. This laboratory course provides the opportunity to learn the examiner role while also developing a newfound understanding of the patient experience under the guidance of experienced faculty. Lab sessions are facilitated by faculty who provide guidance regarding appropriate examination techniques, patient positioning, gowning and draping. Emphasis is initially placed on mastery of individual body systems; by the end of the course students will be performing complete physical examinations. Student write-ups of each session provide a valuable introduction to medical documentation. Hands-on intimate examination techniques (breast, pelvic, rectal and genitourinary) are taught separately utilizing standardized patients at the conclusion of the course. *(2 Credits)*

**Principles of Professional Practice I (PAST 518A)** - This is the first of a continuing course series designed to cover a variety of topics on the patient/provider relationship, interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families and other health professionals. Themes covered this term will be further expanded upon throughout the academic year. They are a fundamental part of establishing a robust platform for clinical practice. Summer quarter topics include patient-provider communication, population health, professionalism, professional practice, wellness, bias in medicine, cultural humility and ethics. Discussions about cultural dimensions of medical practice and social determinants of health aim to familiarize students with a variety of human variations and systemic factors that may significantly impact health outcomes. The foundations of medical ethics will be explored. The history of the PA profession and medical practice will also be discussed. Finally, an introduction to Health Promotion/Disease Prevention will include overviews of public health, behavioral changes, patient history taking and education. Lecture, small group format, videotaping and opportunities for role-playing are utilized. *(3 Credits)*

**Introduction to Epidemiology & Evidence-Based Medicine (PAST 528)** - This course introduces students to the basic principles of epidemiology, evidence-based practice, study design, and statistics. Students will learn to identify and evaluate epidemiologic processes and determine appropriate interventions. They will learn information literacy and evidence-based practice, including how to locate and evaluate medical literature, and apply evidence-based medicine to clinical practice. These elements will be brought together to inform the identification, creation, and analysis of clinical questions. *(2 Credits)*

**Introduction to Pathophysiology & Mechanisms of Disease (PAST 571)** - This course provides an overview of fundamental scientific and physiologic principles applicable in medicine. Concepts in pathophysiology related to altered structure and function will be presented as a foundation for future learning about disease states during the medicine courses. Course content emphasizes the basics of cell biology, biochemistry, genetics, immunity and infection, microbiology, and provides an overview of hematopoiesis and hemostasis. Students will be provided with the underlying principles of fluid balance and acid-base balance. Course content is delivered in a variety of methods, and may include assigned reading material, virtual or in-person sessions, and/or video recordings. *(3 Credits)*

**Introduction to Pharmacotherapeutics (PAST 572)** - Students are introduced to the clinical use of pharmacotherapeutic agents through this foundational course that includes basic pharmacologic information about drug absorption, distribution, metabolism and elimination (ADME). The concepts of drug mechanism of action, adverse effects and toxicities are discussed, and students will learn prescription-writing processes and legalities as well as the use of therapeutic informatics. An overview of some of the major classes of drugs will be introduced, and at the conclusion of this introductory course students will have a basic preparation from which to assimilate appropriate drug management to be presented throughout the medicine course series that begin in fall term. *(2 Credits)*

**Foundations of Clinical Anatomy (ANAT 511)** – The course is designed to provide students with a conceptual and practical understanding of the basic structure and function(s) of organs and tissues of the human body, and to provide the anatomical foundations necessary to understand disease processes and diagnostic, therapeutic, and preventive procedures. The anatomy considered in FOCA is intentionally linked to, and reinforces, the anatomy covered in the PA Physical Diagnosis course. Ultimately, it is expected that the understanding of the human body gained in FOCA will facilitate the application of anatomy to the diagnosis and treatment of clinical conditions in living patients. *(5 Credits)*