PCS 80001  COMPREHENSIVE BASIC SCIENCE I  1 Credit Hours
This course will be required for all Pathway I students. Pathway I students are defined as students who fail APMLE Part I on the first attempt and are preparing to take it for the second time. Students who do not take APMLE Part I on the first attempt will be also be required to take this course.
Prerequisite:  Student must be enrolled in the Podiatric Medicine program.
Schedule Type:  Lecture
Contact Hours:  1 lecture
Grade Mode:  Satisfactory/Unsatisfactory

PCS 80002  COMPREHENSIVE BASIC SCIENCE II  5 Credit Hours
This course will be required for all Pathway II students. Pathway II students are defined as students who fail APMLE Part I on the first and second attempts and are preparing to take it for the third and final time. Eligible students who do not sit for APMLE Part I the first time offered and who fail on their first attempt will be required to take this course as well.
Prerequisite:  Student must be enrolled in the Podiatric Medicine program.
Schedule Type:  Lecture
Contact Hours:  5 other
Grade Mode:  Satisfactory/Unsatisfactory

PCS 80109  HUMAN ANATOMY  6 Credit Hours
The macroscopic anatomy of the upper limb, thorax, abdomen, head and neck, pelvis and perineum of the human body is described, utilizing audiovisual teaching aids and full cadaver dissection. The course is taught using a regional approach, with emphasis on structural and functional relationships. The laboratory instruction includes cadaver dissection supplemented with anatomical prosections, as well as cross-sectional anatomy and computerized educational material.
Prerequisite:  Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type:  Laboratory, Lecture, Combined Lecture and Lab
Contact Hours:  4 lecture, 4 lab
Grade Mode:  Standard Letter

PCS 80110  EMBRYOLOGY  2 Credit Hours
This course will cover the major events and processes involved in normal and abnormal embryologic development of the major body organs and systems.
Prerequisite:  Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type:  Lecture
Contact Hours:  2 lecture
Grade Mode:  Standard Letter

PCS 80113  STAYING ALIVE  5 Credit Hours
The study of the physical and chemical properties of the major constituents of cells and body fluids. This includes structures, functions and biochemical mechanisms involved in the biosynthesis, utilization and degradation of amino acids, carbohydrates, lipids, proteins and nucleic acids. Also included are enzyme kinetics, bioenergetics, cellular communication, nutrition and biochemistry of specialized tissues and fluids.
Prerequisite:  Student must be enrolled in the podiatric medicine program.
Schedule Type:  Lecture
Contact Hours:  3 lecture, .5 lab, 1.5 other
Grade Mode:  Standard Letter

PCS 80118  MEDICAL GENETICS  2 Credit Hours
This course provides basic principles of human genetics dealing with genetic variations and anomalies that impact medical practice. Molecular genetics, cytogenetics, genomics, and population genetics will be reviewed.
Prerequisite:  Student must be enrolled in the podiatric medicine program.
Schedule Type:  Lecture
Contact Hours:  2 lecture
Grade Mode:  Standard Letter

PCS 80119  HUMAN ANATOMY AND EMBRYOLOGY  8 Credit Hours
The human upper limb, head and neck, thoracic, abdominal and pelvic anatomy is explored through lecture, audiovisual aids and cadaver dissection. The material is presented in a regional approach, with emphasis on structural and functional relationships, and is correlated with cadaver dissection. In addition, early events in human embryology are presented and discussed followed by coverage of regional and system-based events during embryological and fetal development. Anatomical and embryological topics are correlated throughout the course.
Prerequisite:  Student must be enrolled in the podiatric medicine program.
Schedule Type:  Combined Lecture and Lab
Contact Hours:  6 lecture, 4 lab
Grade Mode:  Standard Letter

PCS 80121  NEUROMUSCULAR SYSTEMS  5 Credit Hours
Neuromuscular Systems covers the microanatomy, structures, pathways, connections, biochemistry and physiology of the nervous and muscular (both skeletal and smooth) systems. Students must be first year podiatric students taking Spring semester courses. Students must be first year podiatric students taking Spring semester courses.
Prerequisite:  Student must be enrolled in the podiatric medicine program.
Schedule Type:  Lecture
Contact Hours:  5 lecture
Grade Mode:  Standard Letter

PCS 80122  CARDIOVASCULAR SYSTEM  3 Credit Hours
Cardiovascular System covers the microanatomy, structures, biochemistry and physiology of the heart, blood vascular and lymphatic systems. Students must be first year podiatric students taking Spring semester courses.
Prerequisite:  Student must be enrolled in the Podiatric Medicine program.
Schedule Type:  Lecture
Contact Hours:  3 lecture
Grade Mode:  Standard Letter
PCS 80213  RENAL AND RESPIRATORY SYSTEMS  3 Credit Hours
Renal and Respiratory Systems covers the microanatomy, structures, pathways, connections, biochemistry and physiology of the renal and respiratory systems. Students must be first year podiatric students taking Spring semester courses. Pre/corequisites: None Corequisites: None
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 45 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

PCS 80214  LOWER EXTREMITY ANATOMY  8 Credit Hours
Lower extremity anatomy presents the detailed macroscopic anatomy of the lower limb. The course is augmented with radiographs, MRI, surface anatomy and cross sectional studies. The course includes an introduction to basic concepts of podiatric medicine, surgery and biomechanics. Laboratory instruction includes a detailed dissection of the lower limb, supplemented with computerized educational materials and study of natural bone specimens.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80128  MEDICAL MICROBIO/IMMUNOLOGY  6 Credit Hours
This course will introduce the student to the basic concepts, characteristics and techniques used in the study of the clinically significant microbic groups: viruses, bacteria, fungi, and protozoa. The structure, metabolism, genetics, control and laboratory techniques of each microbic group will be described. The roles and outcomes of these organisms in producing manifestations of human infection and disease will be investigated. This course will also introduce the student to the molecular, cellular and organismal mechanisms responsible for the human immune response system. Laboratory will provide hands on experience in staining, cultivation, identification, sensitivity testing, and immunologic techniques.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 1 lab
Grade Mode: Standard Letter

PCS 80219  PHARMACOLOGY AND THERAPEUTICS I  4 Credit Hours
Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner’s responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PCS 80223  PRECLINICAL SCIENCES COMPETENCY  4 Credit Hours
This course will assist students with preparation for taking the APMLE Part 1 board examination. Specifically this course will address the preclinical science areas of general anatomy (Including embryology, histology, genetics and neuroanatomy); lower extremity anatomy; biochemistry; physiology; microbiology and immunology; pathology; and pharmacology. Students must be in their the second year.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Satisfactory/Unsatisfactory