

PODIATRIC MEDICINE (POD)

POD 1223. Principles & Practices of Podiatric Med. (2.5 Credit Hours)

This course covers the advancement of the profession from its early days to the current practice environment. Students become familiar with the governance of the profession and podiatric medical education. This course provides valuable information on key policies, concepts and expectations in the areas of professionalism, interprofessional medical education, doctor-patient relationship, medical ethics, cultural competency and human subject research. The course concludes with an overview of the fundamental principles of basic topographical lower extremity anatomy, biomechanics and taking a history/lower extremity physical supported by a series of interactive case presentations.

POD 2048. Research in Podiatric Medicine & Surgery. (1 Credit Hour)

This elective course is primarily designed for second and third year CPMS students interested in conducting research in podiatric medicine and surgery. Students become familiar with the basic principles of research. Participation ranges from developing and submitting a research proposal for approval to data collection and presentation. Participating students have faculty mentor agree to serve in a supervisory capacity.

POD 2204. Cultural Competency in Medicine. (1 Credit Hour)

Cultural Competency in Medicine is designed to introduce the student to the existence of health disparities across the United States and the global community. The course provides an opportunity to learn and engage in discussions about diverse populations, assisting the student in building stronger patient relationships and caring for patients from diverse groups more effectively with the goal of improving healthcare outcomes.

POD 2207. Clinical Podiatric Medicine and Diagnost. (4 Credit Hours)

This course introduces the student to the history, clinical findings, diagnosis and management of common podiatric conditions. The content of this course covers a wide range topics including medical documentation, diagnostic imaging techniques, wound management and infections, pain management, rheumatological diseases, metabolic bone disorders, bone tumors, overuse injuries in the child and adult, osteopathic manual medicine of the lower extremity and physical therapy modalities.

POD 2210. Fundamentals of Foot Function. (3 Credit Hours)

Fundamentals of Foot Function is designed to give the student an overview of biomechanics of the lower extremity, including the normal and abnormal parameters and their clinical measurements, an understanding of the differences in function with weight-bearing and non-weight bearing as they affect the foot and those structures proximal to it as well as the clinical implications. The course will provide the student with an opportunity to develop an understanding of the growth and development of the skeletal structure, muscle function, and joint motion during gait of an ideal extremity, as well as abnormal structure and gait for the purposes of appreciating the ideal.

POD 2220. Clin Pod Biomechanics / Surg. (6.5 Credit Hours)

This course is designed to enable the student to achieve the appropriate level of knowledge to understand complex lower extremity pathologies. The course provides necessary information through didactic and workshop forums to allow the students to recognize normal biomechanics, pathological biomechanics and various treatment options for foot and ankle conditions. This course is divided into multiple sections to focus on principles of perioperative management, tissue healing, fixation techniques, and foot and ankle pathology as it relates to the adult and pediatric patient. After successful completion of the course, the student will have gained knowledge to understand the pathomechanics and the proper steps in the treatment ladder of the foot and ankle pathology.

POD 2237. Podiatric Clinical Rotations. (4 Credit Hours)

This four-week end-of-second-year clinical rotation is designed to introduce the podiatric medical student to clinical patient management, clinical protocol, basic instrumentation and medical record recording. Students are required to complete a basic set of professional and clinical skills.

POD 3205. HC Systems, Community Med, Med Jurispru. (2.5 Credit Hours)

The Health Systems, Community Medicine and Medical Jurisprudence course is designed to introduce the student to aspects of health care beyond basic science and the clinical aspects of patient care. The Jurisprudence section of the course will expose the student to the medical-legal aspects of the practice of health care. The Health Systems and Policy portion introduces fundamental principles and concepts associated with the delivery of health care in today's ever-changing health environment. The course will also introduce the student to concepts in epidemiology and transmissible diseases and elaborate on concepts in research-based methodology and evidence-based medicine from previous courses.

POD 3206. Evidence-Based Trauma. (1 Credit Hour)

Trauma is one of four academic courses that contribute to the third-year Evidence-Based Podiatric Medicine and Surgery Capstone. The course is designed to integrate the basic sciences with the clinical sciences in a manner where students apply information to a clinical situation. Students will use learned skills and knowledge as well as develop new skills to solve clinical problems. The Trauma Course requires students to apply learned knowledge, findings from existing medical evidence and critical thinking skills in the evaluation, diagnosis and management (non-surgical and surgical) of foot and ankle pathologies through a Evidence-based format. The students will be evaluated on their ability to demonstrate knowledge related to trauma, apply evidence-based evaluation skills to evaluate the literature and select the most appropriate course of action in dealing with a clinical problem.

POD 3207. Emerg Med / Pod Trauma. (2.5 Credit Hours)

Students are introduced to various concepts regarding traumatic disorders of the lower extremity, including management of soft tissue injuries, fracture management and complications associated with traumatic injury. The emergency medicine component of the course reviews emergency and urgent-care situations that the podiatric medical specialist may encounter.

POD 3210. Basic Surgical & Medical Skills. (1 Credit Hour)

Students learn principles of aseptic technique training according to national standards. These techniques include the surgical hand scrub, opening a sterile field, self and assisted gowning and gloving, open gloving, instrumentation identification and passing as well as sterile field presentation and maintenance. Students demonstrate these techniques under the direction of operating room nurses. Students also learn proper sterilization of and nomenclature for instruments.

POD 3217A. Podiatric Med & Surg Rotation. (12 Credit Hours)

Third-Year students will complete 24 weeks of podiatric medical and surgical rotations. These rotations take place at the Des Moines University Foot and Ankle Clinic, the VA Central Iowa Health Care System, Broadlawns Medical Center and the Iowa Methodist Wound Healing Center. Students will participate in podiatric medical and surgical care in both inpatient and outpatient centers.

POD 3217B. Podiatric Med & Surg Rotation. (12 Credit Hours)

Third-Year students will complete 24 weeks of podiatric medical and surgical rotations. These rotations take place at the Des Moines University Foot and Ankle Clinic, the VA Central Iowa Health Care System, Broadlawns Medical Center and the Iowa Methodist Wound Healing Center. Students will participate in podiatric medical and surgical care in both inpatient and outpatient centers.

POD 3221. Evidence-Based Rearfoot Pathology. (1 Credit Hour)

Rearfoot Pathology is one of four academic courses that contribute to the third-year Case-Based Podiatric Medicine and Surgery Capstone. The course is designed to integrate the basic sciences with the clinical sciences in a manner where students are able to apply previous information presented to a clinical situation. Students will use learned skills and knowledge as well as develop new skills to solve clinical problems. They will apply evidence based evaluation skills to evaluate the literature and select the most appropriate course of action in dealing with a clinical problem. The Rearfoot Pathology Course requires the students to apply findings from existing medical evidence in the evaluation, diagnosis and management (non-surgical and surgical) of common rearfoot pathologies through a case-based format.

POD 3224. Evidence-Based Forefoot Pathology. (1 Credit Hour)

Forefoot Pathology is one of four academic courses that contribute to the third-year Evidence-Based Podiatric Medicine and Surgery Capstone. The course is designed to integrate the basic sciences with the clinical sciences in a manner where students are able to apply previous information presented to a clinical situation. Students will use learned skills and knowledge as well as develop new skills to solve clinical problems. They will apply evidence-based evaluation skills to evaluate the literature and select the most appropriate course of action in dealing with a clinical problem. The Forefoot Pathology Course requires the students to apply findings from existing medical evidence in the evaluation, diagnosis and management (non-surgical and surgical) of common forefoot pathologies.

POD 3225. Evidence-Based Infectious Disease. (1 Credit Hour)

Infectious Disease is one of four academic courses that contribute to the third-year Evidence-Based Podiatric Medicine and Surgery Capstone. The course is designed to integrate the basic sciences with the clinical sciences in a manner where students are able to apply previous information presented to a clinical situation. Students will use learned skills and knowledge as well as develop new skills to solve clinical problems. They will apply evidence-based evaluation skills to evaluate the literature and select the most appropriate course of action in dealing with a clinical problem. The Infectious Disease Course requires the students to apply findings from existing medical evidence in the evaluation, diagnosis and management (non-surgical and surgical) of common lower extremity infectious diseases.

POD 3227. Emergency Medicine Simulation Rotation. (1 Credit Hour)

This third-year rotation is designed to expose students to concepts and techniques related to emergency medicine patient management. The rotation provides experience in history and physical examination, interpreting studies, CPR and identifying pathology related to cardiovascular, infectious disease, respiratory and orthopedic conditions. An important component of this rotation involves working as a member of a medical team.

POD 3228. Vascular Surgery Rotation. (2 Credit Hours)

This third-year clinical rotation is designed to provide students with a clinical experience related to history and physical examination techniques, appropriate diagnostic testing and interpretation, and management options for patients experiencing arterial, venous or lymphatic disorders. Students will be exposed to measures designed to prevent vascular diseases of the lower extremities.

POD 3229. Internal Medicine Rotation. (2 Credit Hours)

This third-year hospital based clinical rotation is designed to expose students to concepts and techniques presented in the preclinical clinical systems and podiatric curriculum. Concepts include performing complete history and physical examinations, developing differential diagnosis lists and formulating appropriate treatment plans. Students interact with patients with a variety of co-morbidities with an emphasis on the diabetic patient.

POD 3231. Comm-Based Pod Med/Surg Rotation. (4 Credit Hours)

This third-year clinical rotation is designed to provide students with a clinical experience in both an office-based and ambulatory surgery center learning environment. Students are assigned to podiatric physicians in the community and participate in patient care covering a broad range of foot and ankle conditions. This rotation enables students to see first-hand current trends in a podiatric practice.

POD 3232. Medicine/Surgery Rotation. (4 Credit Hours)

This third-year clinical rotation is designed to expose student to concepts and techniques presented in the preclinical clinical systems and podiatric curriculum. Concepts include performing history and physical examination techniques, appropriate diagnostic testing and interpretations, developing differential diagnosis lists and formulating appropriate treatment plans.

POD 3234. Clinical Biomechanics. (1 Credit Hour)

Clinical Biomechanics shall provide new material to build upon previously acquired knowledge and skills. The end result shall be that students will attain the capability to diagnose and manage common biomechanical disorders of the lower extremity. An important goal of this course is to utilize problem-based learning to enable the student to assess their evolving level of competency. This will allow for dynamic evolution of the course to meet the underlying purpose of preparing the student physician for actual patient encounters.

POD 4217. Clinical Skills Assessment. (1 Credit Hour)

This course is designed to help the student develop into a well-rounded fourth year student-physician ready to enter residency training. The course will allow the student to demonstrate to the faculty of the College during the fourth year of clinical training, successful completion of clinical skills deemed necessary for a 4th year student.

POD 4220. Podiatric Medicine/Surgery Rotation. (4-20 Credit Hours)

Fourth-year students are required to complete 24 weeks of podiatric medical/surgical clinical rotations. These are four-week supervised hospital based rotations designed to provide students a clinical experience in podiatric medicine, podiatric radiology, podiatric surgery and biomechanics. The podiatric medicine rotation is selected by the student through the American Association of Colleges of Podiatric Medicine clerkship process.

POD 4221. Core Rotation. (4-12 Credit Hours)

Fourth-year students complete a 12-week supervised hospital based rotation designed to provide students equivalent didactic and clinical experience in podiatric medicine, podiatric radiology, podiatric surgery and biomechanics. The student will also complete two to four weeks of non-podiatric rotations determined by core facility resources and approved by the Associate Dean for Clinical Affairs. The core rotation is selected by the student through the Office for Clinical Affairs.

POD 4222. Private Practice Rotation. (4-12 Credit Hours)

This four-week fourth-year supervised podiatric private practice rotation is designed to provide students a clinical experience in podiatric medicine with emphasis on aspects related to private practice such as federal and state regulations, exposure to insurance products, and practice management.

POD 4223. Academic Medicine Rotation. (4-16 Credit Hours)

The College offers a 4-week experience to fourth-year students having an interest in academic medicine as a career. Students will work with the Dean and CPMS faculty on various administrative and teaching responsibilities associated with their appointments. Participating students will present a lecture, facilitate a small group session, attend various meetings and submit a capstone paper of this experience.

POD 4224. Medicine Rotation. (4-16 Credit Hours)

Fourth-year students must complete a four-week rotation in family medicine, internal medicine or a medical specialty. The rotation is designed to expose students to the concepts and techniques of various medical specialties. Concepts include performing complete history and physical examinations, developing differential diagnosis lists and formulating appropriate treatment plans.

POD 4225. Medical Specialties Rotation. (4-12 Credit Hours)

This is a 2-4 week fourth-year clinical rotation in one of many medical specialties including but not limited to internal medicine, dermatology, emergency medicine, general surgery, orthopaedic surgery, infectious disease, neurology and physical therapy. Specific objectives exist for each of these specialties. In addition to the clinical training students will gain valuable interprofessional experience by interacting with other medical specialists and the relationship with podiatric medicine.

POD 4226. Research Rotation. (4-12 Credit Hours)

As a requirement of the CPMS Research Track, fourth-year students are required to complete 3-4 weeks of research elective time. This is also available to students not participating in the Research Track. Students will use this time to work with a faculty mentor on current research projects, developing new ideas or to complete projects that are in progress.

POD 4227. Global Health Rotation. (2-4 Credit Hours)

Through the Office of Global Health and with the approval of the CPMS Associate Dean for Clinical Affairs, fourth-year students may complete a 4-week medicine rotation at a University approved site. This is based on the availability of the rotation and how this fits into the student's fourth-year schedule. This rotation may satisfy the Medicine requirement of the fourth-year.