



College of Podiatric Medicine

Excellence in Action

Academic Catalog  
2012–2013

### Educational Outcomes

The following Educational Outcomes will be attained as a result of the cumulative effect of both didactic instruction in the basic medical sciences and clinical courses, as well as, clinical experiences afforded through clinical rotations and clerkship experiences. The goal is to prepare the graduate for successful entry into postdoctoral training program.

1. To have an appreciation of the ethical responsibilities of the physician to his or her patient.
2. Demonstrate an understanding of medical statistics, epidemiology and research methods.
3. Diagnose common foot and ankle pathology utilizing signs, symptoms, differential diagnosis, laboratory, X-ray evaluations, and discuss treatment alternatives available in each diagnosis including the following:
  - a. Hallux Valgus
  - b. Hallux Limits
  - c. Contracted and deformed lesser digits
  - d. Hyperpronation on hindfoot
  - e. Hypersupination of hindfoot
  - f. Morton's Neuroma
  - g. Capsulitis of forefoot
  - h. Tendonitis/Bursitis
  - i. Heel Spur Syndrome
  - j. Nail Deformities (Onychomycosis)
  - k. Verruca
  - l. Stress Fracture
  - m. Ulcers
  - n. Bacterial Infections
  - o. Fungal Infections
  - p. Ankle Sprains
  - q. Plantar Calluses
  - r. Degenerative Joint Disease
  - s. Gouty Arthritis
  - t. Rigid Flatfoot
4. To have an understanding of the medical, social, economic, ethnic, and cultural issues and concerns of the geriatric population.
5. To have an appreciation of civil, criminal and administrative laws which impact podiatric practice.
6. To have knowledge of podiatric practice administration.
7. To have an understanding of the public health issues which impact podiatric practice.
8. To be able to provide podiatric primary care in a clinical setting.
9. Is proficient in the ability to perform a history and basic physical examination including the lower extremity.
10. Recognize the common major dermatologic conditions and manage pedal dermatological problems.
11. Be knowledgeable of the major systemic diseases, their pedal manifestations and implication in the management of the podiatric patient.

12. Demonstrate knowledge of the pathology, clinical presentation and treatment of general neurological disease and understand the pedal manifestations of neurological diseases.
13. Understand common emergent medical problems and their management.
14. Ability to perform a complete Podiatric biomechanical arthrometric examination and interpret the results.
15. Prescribe and institute orthotic or other mechanical therapy (physical therapy, activity modification, exercise therapy, shoe therapy, etc.) based upon findings of a podiatric biomechanical arthrometric examination.
16. Evaluate, diagnose, prescribe and institute treatment for commonly encountered mechanically induced injuries or conditions occurring in the lower extremity.
17. Perform a complete lower extremity examination on pediatric aged patient, comparing developmental milestones to the norm and identifying common lower extremity injuries and conditions.
18. Be able to evaluate medical status of a pre-op patient and recognize and prepare treatment plan for common post-op complications.
19. Understand concepts of wound healing (both soft tissue and bone), and utilize those concepts to evaluate and manage surgical wounds.
20. Understand and perform basic surgical skills including administration of local anesthetics, aseptic techniques, instrumentation, homeostasis techniques suture materials and needle selection, suturing, hand ties; tourniquets application, gowning and gloving.
21. Understand concepts necessary to determine the indications for forefoot and rearfoot surgical reconstruction procedure including:
  - a. Pre-operative evaluation and procedure selection.
  - b. Description of the procedure.
  - c. Reasonable postoperative follow-up plan.
22. Recognize various types of foot and ankle trauma, including fractures, dislocations, sprains, tendon ruptures and formulates a treatment plan.
23. Recognize and implement treatment plan for soft tissue or bone infection including surgical procedure and selection of antibiotic agents
24. Recognize and implement treatment plan for soft tissue or bone infection including surgical procedure and selection of antibiotic agents

Minimum eligibility for graduation with a degree of Doctor of Podiatric Medicine (D.P.M.) from the Kent State University College of Podiatric Medicine (KSUCPM) requires the passage of Parts I and II of the American Podiatric Medical Licensing Examination (APMLE) as well as the successful completion of the required 189 KSUCPM semester and clinical hours as described in our catalog.

## Curriculum Outlines

### Four Year Program

The following outline describes the eight-semester curriculum for the four year D.P.M. curriculum for the 2012-2013 academic year. One credit is assigned to a course for every fifty minute unit of instruction in a semester.

#### First Year Program

<b>Fall Semester</b>	<b>CLOCK HOURS</b>	<b>CREDIT HOURS</b>
BSC 80111 Human Anatomy	60/60 lab	8
BSC 80112 Human Cell and Tissue Biology	60/30 lab	6
BSC 80113 Medical Biochemistry	90	6
BSC 80114 Medical Genetics and Embryology	45	3
PMD 80113 Medical Ethics	15	1
PMD 80114 Principles of Medical Research	15	1
PMD 80115 Podiatric Medical Practice Seminar	15	1
	<b>300/90 lab</b>	<b>26</b>

<b>Spring Semester</b>	<b>CLOCK HOURS</b>	<b>CREDIT HOURS</b>
BSC 80124 Lower Extremity Anatomy	60/60 lab	8
BSC 80125 Neurobiology	45	3
BSC 80126 Human Systems Biology	90	6
BSC 80128 Medical Microbiology & Immunology	60/30 lab	6
GMD 80121 Physical Assessment & Diagnosis	3/45 lab	3
PMD 80116 Podiatric Medical Practice Seminar	15	1
	<b>273/135 lab</b>	<b>27</b>

<b>Summer Semester</b>	<b>CLOCK HOURS</b>	<b>CREDIT HOURS</b>
ORT 80131 Biomechanics I	45	3
ORT 80132 Rehabilitative Medicine	30	2
PMD 80132 Lower Extremity Assessment & Diagnosis	15/15 lab	2
PMD 80133 Introduction to Medical Imaging	15	1
	<b>105/15 lab</b>	<b>8</b>

<b>Clinical</b>	<b>CREDIT HOURS</b>
CLI 80101 Introduction to Patient Care I	1

## 2nd Year Program

<b>Fall Semester</b>	<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
BSC 80218 Human Systems Pathology	90/30 lab	8
BSC 80219 Pharmacology & Therapeutics	60	4
ORT 80211 Biomechanics II	30	2
PMD 80211 Podiatric Medicine I	30	2
PMD 80214 Radiology/Medical Imaging	30	2
PMD 80215 Podiatric Medical Practice Seminar	15	1
	<b>255/30 lab</b>	<b>20</b>

<b>Spring Semester</b>	<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
BSC 80228 Human Systems Pathology	90/30 lab	8
BSC 80229 Pharmacology & Therapeutics	60	4
PMD 80216 Podiatric Medical Practice Seminar	15	1
PMD 80221 Podiatric Medicine II	30	2
PMD 80222 Podiatric Medical Skills	30 lab	2
PMD 80224 Radiology/Medical Imaging II	21/9 lab	2
SUR 80221 Introduction to Podiatric Surgery	28/2 lab	2
	<b>244/71 lab</b>	<b>21</b>

<b>Clinical</b>	<u>CREDIT HOURS</u>
CLI 80200 Standardized Patient	1
CLI 80201 Introduction to Patient Care II	1
<b>Total:</b>	<b>2</b>

# The Academic Program

## 3rd Year Program

<b><u>Fall Semester</u></b>	<b><u>CLOCK HOURS</u></b>	<b><u>CREDIT HOURS</u></b>
GMD 80314 Neurology	30	2
GMD 80315 Dermatology	30	2
GMD 80316 General Medicine	60	4
GMD 80328 Women's Health	15	1
ORT 80314 Podopediatrics	30	2
SUR 80313 Podiatric Surgery	30	2
PMD 80315 Podiatric Medical Practice Seminar	15	1
	<b>210</b>	<b>14</b>

<b><u>Spring Semester</u></b>	<b><u>CLOCK HOURS</u></b>	<b><u>CREDIT HOURS</u></b>
CMD 80325 Public Health Jurisprudence	30	2
GMD 80326 General Medicine	60	4
GMD 80327 Behavioral Medicine	15	1
ORT 80325 Sports Medicine	30	2
SUR 80323 Podiatric Surgery	30	2
SUR 80325 Traumatology	30	2
PMD 80316 Podiatric Medical Practice Seminar	15	1
	<b>210</b>	<b>14</b>

### **Summer Semester**

4-8 credit hours of 80400 level clinical rotations

<b><u>Clinical</u></b>	<b><u>CREDIT HOURS</u></b>
CLI 80310 Podiatric Surgery	4
CLI 80315 Surgical Skills Workshop	4
CLI 80320 Radiology	4
CLI 80340 CPR / ACLS	1
CLI 80351 Podiatric Medicine / Biomechanics	4
CLI 80352 Podiatric Medicine / Biomechanics	4
CLI 80365 Primary Care / VA	4
CLI 80370 History & Physical	4
CLI 80390 Simulated Patients	4
	<b>33</b>

4th Year Program

<b>Summer Semester</b>			<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
CMD	80424	Business Administration	30	2
CLI	80498	Senior Competency	30	2

<b>Clinical</b>			<u>CREDIT HOURS</u>
CLI	80440	Senior Clinical Rotation	4
CLI	80445	Senior Rotation – VA Hospital	4
CLI	80455	Community Medicine/Medical Imaging	4
CLI	80491	Senior Medicine Rotation	4
CLI	80496	Clerkship Rotation	4
<b>Total</b>			<b>24</b>

**Extended Curriculum (Five Year Program)**

The following outline describes the 10-semester curriculum for the extended D.P.M. curriculum for the 2012-2013 academic year. One credit is assigned to a course for every fifty minutes of lecture or laboratory per week in a semester.

First Year Program

<b>Fall Semester</b>			<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
BSC	80112	Human Cell and Tissue Biology	60/30 lab	6
BSC	80113	Medical Biochemistry	90	6
PMD	80113	Medical Ethics	15	1
PMD	80114	Principles of Medical Research	15	1
PMD	80115	Podiatric Medical Practice Seminar	15	1
			<b>195/30 lab</b>	<b>15</b>

<b>Spring Semester</b>			<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
BSC	80125	Neurobiology	45	3
BSC	80126	Human Systems Biology	90	6
BSC	80128	Medical Microbiology & Immunology	60/30 lab	6
PMD	80116	Podiatric Medical Practice Seminar	15	1
			<b>210/30 lab</b>	<b>16</b>

<b>Clinical</b>			<u>CREDIT HOURS</u>
CLI	80101	Introduction to Patient Care I	1

# The Academic Program

## 2nd Year Program

<b><u>Fall Semester</u></b>	<b><u>CLOCK HOURS</u></b>	<b><u>CREDIT HOURS</u></b>
BSC 80111 Human Anatomy	60/60 lab	8
BSC 80114 Medical Genetics & Embryology	45	3
PMD 80211 Podiatric Medicine I	30	2
PMD 80215 Podiatric Medical Practice Seminar	15	1
	<b>150/60 lab</b>	<b>15</b>

<b><u>Spring Semester</u></b>	<b><u>CLOCK HOURS</u></b>	<b><u>CREDIT HOURS</u></b>
BSC 80124 Lower Extremity Anatomy	60/60 lab	8
GMD 80121 Physical Assessment & Diagnosis	3/45 lab	3
PMD 80216 Podiatric Medical Practice Seminar	15	1
PMD 80221 Podiatric Medicine II	30	2
	<b>108/105 lab</b>	<b>14</b>

<b><u>Summer Semester</u></b>	<b><u>CLOCK HOURS</u></b>	<b><u>CREDIT HOURS</u></b>
ORT 80131 Biomechanics I	45	3
ORT 80132 Rehabilitative Medicine	30	2
PMD 80132 Lower Extremity Assessment & Diagnosis	15/15 lab	2
PMD 80133 Introduction to Medical Imaging	15	1
CLI 80101 Introduction to Patient Care 1	15	1
	<b>120/15 lab</b>	<b>9</b>



## 3rd Year Program

<b>Fall Semester</b>			<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
BSC	80218	Human Systems Pathology	90/30 lab	8
BSC	80219	Pharmacology & Therapeutics	60	4
ORT	80211	Biomechanics II	30	2
PMD	80214	Radiology and Medical Imaging I	30	2
			<b>210/30 lab</b>	<b>16</b>

<b>Spring Semester</b>			<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
BSC	80228	Human Systems Pathology	90/30 lab	8
BSC	80229	Pharmacology & Therapeutics	60	4
PMD	80222	Podiatric Medical Skills	30 lab	2
PMD	80224	Radiology and Medical Imaging II	21/9 lab	2
SUR	80221	Introduction to Podiatric Surgery	28/2 lab	2
			<b>229/71 lab</b>	<b>18</b>

<b>Clinical</b>			<u>CREDIT HOURS</u>
CLI	80200	Standardized Patient	1
CLI	80201	Introduction to Patient Care II	1
<b>Total:</b>			<b>2</b>

## The Academic Program

### 4th Year Program

<b>Fall Semester</b>	<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
GMD 80314 Neurology	30	2
GMD 80315 Dermatology	30	2
GMD 80316 General Medicine	60	4
ORT 80314 Podopediatrics	30	2
SUR 80313 Podiatric Surgery	30	2
GMD 80328 Women's Health	15	1
PMD 80315 Podiatric Medical Practice Seminar	15	1

**210**

**14**

<b>Spring Semester</b>	<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
CMD 80325 Public Health Jurisprudence	30	2
GMD 80326 General Medicine	60	4
GMD 80327 Behavioral Medicine	15	1
ORT 80325 Sports Medicine	30	2
SUR 80323 Podiatric Surgery	30	2
SUR 80325 Traumatology	30	2
PMD 80316 Podiatric Medical Practice Seminar	15	1

**210**

**14**

#### **Clinical**

	<u>CREDIT HOURS</u>
CLI 80310 Podiatric Surgery	4
CLI 80315 Surgical Skills Workshop	4
CLI 80320 Radiology	4
CLI 80340 CPR / ACLS	1
CLI 80351 Podiatric Medicine / Biomechanics	4
CLI 80352 Podiatric Medicine / Biomechanics	4
CLI 80365 Primary Care / VA	4
CLI 80370 History & Physical	4
CLI 80390 Simulated Patients	4

**33**

### 5th Year Program

<b>Summer Semester</b>	<u>CLOCK HOURS</u>	<u>CREDIT HOURS</u>
CMD 80424 Business Administration	30	2
CLI 80498 Senior Competency	30	2

#### **Clinical**

CLI 80440 Senior Clinical Rotation	8
CLI 80445 Senior Rotation- VA Hospital	4
CLI 80455 Community Medicine / Medical Imaging	4
CLI 80491 Senior Medicine Rotation	8
CLI 80316 Clerkship Rotation	2

**Total:**

**30**

## Course Descriptions

### Department of Basic Sciences Pre-Clinical Education

Assistant Dean

E. Ronald Wright, Ph.D.

Associate Professor  
and Division Head

Stephanie Belovich, Ph.D.

Pre-clinical education at KSUCPM provides a thorough grounding in the basic sciences and thought processes related to medical practice. Studies in the first year focus on normal structure and function of cells, tissues, whole organs and organ systems. In the 2nd year, courses focus on the analysis of abnormal structure and function and include: basic disease processes (underlying causes, symptoms, diagnostic methods, principles of disease management); a study of microorganisms capable of invading body tissues to cause disease as well as our immune defense mechanisms to prevent this; and study of the drugs used to prevent and treat disease (drug actions, applications, adverse reactions).

The knowledge you will gain in pre-clinical courses is the factual foundation for upper level clinical courses and patient care rotations. It is also the ability to learn independently, so that you can keep up with inevitable revisions and new advances in podiatric medicine throughout your career. Knowledge of basic medical sciences marks you as a health professional with a modern education, which will engender the respect of your colleagues in other medical disciplines as well as the confidence of your patients.

### BSC 80111 Human Anatomy

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.

### BSC 80112 Human Cell and Tissue Biology

Histology is the study of the microscopic organization of the human body. Reciprocal relationships between normal structural features and their functions are emphasized. Macromolecules, organelles, cells, fundamental body tissues and organs are compared and contrasted. Light microscopic preparations are examined in laboratories, which are closely correlated with lecture topics.

### BSC 80113 Medical Biochemistry

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 biosyntheses, utilization and degradation of amino acids, carbohydrates, lipids, proteins and nucleic acids. Also included are enzyme kinetics, bioenergetics, cellular communication and introduction to the inborn errors of metabolism, nutrition and biochemistry of specialized tissue and fluids.

### **BSC 80114 Medical Genetics and Embryology**

This course will include the basic principles of human genetics dealing with the genetic variations that impact medical practice. Molecular genetics, cytogenetics, genomics, and population genetics will be reviewed. This course will also review the major events and processes involved in normal and abnormal embryologic development of the major body organs and systems. This course is coordinated with Human Anatomy and Cell and Tissue Biology.

### **BSC 80124 Lower Extremity Anatomy**

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.

### **BSC 80125 Neurobiology**

Neurobiology is the study of the structure and function of the nervous system. The course will deal with the anatomy, microscopic anatomy and physiology of the individual neurons and systems of neurons, which comprise the component parts of the nervous system. Topics will include sensory, special sensory and motor systems, the cerebral cortex, diencephalon, cerebellum, brainstem and spinal cord. Discussions will include reference to clinical disorders related to those structures.

### **BSC 80126 Human Systems Biology**

The study of basic concepts of normal organ and organ system function, including body fluids and compartments, muscle physiology, cardiovascular physiology, renal function, respiration, gastrointestinal physiology and endocrinology. Emphasis is placed on the regulatory functions of each organ or system, as well as the contribution of each system to whole body homeostasis. The sequence of topics in this course are coordinated with those in GMD 121 : Physical Assessment and Diagnosis.

### **BSC 80128 Medical Microbiology and Immunology**

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. 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.

### **BSC 80218 and BSC 80228 Human Systems Pathology**

The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system.

An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.

### **BSC 80219 and BSC 80229 Pharmacology and Therapeutics**

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.

## **Department of General Medicine**

Associate Professor  
and Division Head  
Edweana Robinson, M.D., M.P.H.

### **GMD 80121 Physical Assessment and Diagnosis**

Physiology and physical assessment are coordinated to allow students to integrate the underlying physiologic processes with physical diagnostic findings. Physiology is a study of the basic concepts of normal organ and organ system function. Emphasis is placed on regulatory functions of each organ or system as well as the contribution of each to the whole body homeostasis. Physical diagnosis combines the patient's symptoms and signs to arrive at a diagnosis of disease. The course focuses on total body examination using the traditional processes of inspection, palpation, percussion and auscultation.

### **GMD 80314 Neurology**

A comprehensive study of neurological diseases that are pertinent to treatment of the podiatric patient. The course includes etiologies, diagnosis and treatment of the neurologic diseases.

### **GMD 80315 Dermatology**

This course is a series of lectures on dermatologic manifestations of systemic diseases, as well as podiatric dermatological diseases. It includes the etiology, diagnosis, treatment and management of dermatologic disorders.

### **GMD 80316 and GMD 80326**

#### **General Medicine**

This course is a series of lectures dealing with etiology, recognition and treatment of medical problems that are common to podiatric patients. The lectures include those dealing with organ systems such as renal, cardiovascular, musculoskeletal, endocrine, digestive, etc., and their relationship to podiatric medicine. Particular attention is given to the medical clearance of the surgical patient and the care of non-podiatric emergencies.

#### **GMD 80327 Behavioral Medicine**

Behavioral medicine course is a series of lectures on major topics in the area including mood and anxiety disorders, alcoholism, substance abuse, psychoses and pain management. The presentations will relate the relevance to the practice of podiatry

#### **GMD 80328 Women's Health**

Women's health course is a seminar covering important areas unique to women including pregnancy, contraception, infertility, cardiovascular health, osteoporosis and menopause.

## **Department of Podiatric Biomechanics and Orthopedics**

**Associate Professor  
and Division Head  
Kathy J. Siesel, D.P.M.**

#### **ORT 80131 Biomechanics**

Biomechanics is a comprehensive course, which stresses normal gait and foot function. Abnormalities in gait of foot mechanics are related to foot pathology.

#### **ORT 80211 Biomechanics**

Biomechanics II introduces common foot pathologies and their affects on function. The examination techniques utilized in the evaluation of patient's are introduced as is the use of foot orthotic devices and computers in the assessment of biomechanical pathology.

#### **ORT 80132 Rehabilitative Medicine**

Rehabilitative Medicine reviews various physical therapy modalities and principles of rehabilitation. Examples of application of these principles as relating to foot pathology are given.

#### **ORT 80314 Podopediatrics**

Podopediatrics is a comprehensive course, which emphasizes the incidence, etiology, pathomechanics, evaluation and treatment of lower extremity pathology in children.

#### **ORT 80325 Sports Medicine**

Sports Medicine is a comprehensive course. Students gain an understanding of running biomechanics, shoe gear construction and evaluation, and the incidence, etiology, pathomechanics, evaluation and treatment of many lower extremity sports pathologies.

## Department of Podiatric Medicine

Assistant Division Head of Podiatric Medicine  
Rocco Petrozzi, DPM

### **PMD 80113 Medical Ethics**

The focus of the medical ethics curriculum is to provide a foundation in ethical analysis, augment knowledge of contemporary bioethics issues, and offer experience applying ethical reasoning to clinical cases. The goal of this course is to promote discussion of the ethical responsibilities of a doctor to their patients.

### **PMD 80114 Principles of Medical Research**

It is important for a podiatric physician to have developed the ability to read and interpret the medical literature. This requires a fundamental understanding of biostatistics, epidemiology, and research design. This course provides a framework for the development of an evidence-based methodology to patient care.

### **PMD 80115/80116 Podiatric Medical Practice Seminar**

Through instruction by numerous field experts of the American Academy of Podiatric Practice Management, this monthly class is designed to place students on a fast track to success. The curriculum focuses on strategies to help students acclimate to the challenges that medical students typically face. Lifestyle improvement skills such as positive mental attitude, study strategies, time and stress management skills, and organization are stressed.

### **PMD 80132 Lower Extremity Assessment and Diagnosis**

A comprehensive approach to physical examination, which combines the patient's symptoms and the physical signs to arrive at a diagnosis of disease. It is accomplished by training students in the methods of history taking and physical examination. The course focuses on lower extremity examination. The traditional processes of inspection, palpation, percussion and auscultation are emphasized.

### **PMD 80134 Introduction to Medical Imaging**

Podiatric physicians are fully licensed to order, perform and interpret radiologic studies of the foot and ankle. As operators of ionizing x-ray equipment, all practitioners must undergo basic training in x-ray physics, image control and quality assurance, safety and patient positioning. These four building blocks comprise the foundation of this course in fundamentals.

### **PMD 80211 and 80221 Podiatric Medicine I and Podiatric Medicine II**

This is a core course designed to present the 2nd year student with the full spectrum of pathology, which he or she will encounter during his or her clinical training and later in private practice. Topics include infectious disease, wound care, rheumatology, vascular medicine, and the diabetic foot. The student will be instructed in the evaluation of foot and ankle pathology including signs, symptoms, and differential diagnosis. Laboratory and radiographic evaluation will be discussed when appropriate. The student will also be instructed in the treatment alternatives available in each case.

### **PMD 80214 and PMD 80224 Radiology/Medical Imaging**

This course encompasses the fundamentals of modern musculoskeletal imaging, with particular emphasis on the foot and ankle. The course begins with basic principles of plain-film radiographic imaging, an approach which emphasizes the correlation of abnormal findings with basis disorders. The course will then introduce sectional imaging (MR, CT/Tomography) prior to a more classical approach to the topic of musculoskeletal imaging. Common topics include diagnostic imaging of the arthropathies, infection, bone & soft tissue tumors, and metabolic bone disease.

### **PMD 80215/80216 Podiatric Medical Practice Seminar**

Through instruction by numerous field experts of the American Academy of Podiatric Practice Management, this monthly class is designed to facilitate the long term objective of optimizing the academic knowledge obtained throughout the first two years and prepares the student to become an outstanding "caregiver." The core focus includes communication skills, patient compliance, dealing with conflicts, concepts of efficiency, and practice model options.

### **PMD 80222 Podiatric Medical Skills**

Podiatric Medical Skills is a practical course, which includes strapping and padding, instrument dexterity, local anesthetic injection, nail avulsion technique, blood glucose finger stick, handheld Doppler exam, fitting for diabetic shoes, arthrometric examination and casting for orthoses.

Students are taught the indications

and proper application of adhesive bandages and splints for the prevention of injury, control of foot function and treatment of injuries to the foot and lower extremity. Padding is the treatment of foot pathology by redistribution of weight, stress and friction. Students are taught how to relieve acute and chronic pathologies of the foot through the use of various padding materials, or prefabricated pads. Students also gain an understanding of the theory of pad placement. Students are taught the proper techniques for performing toenail avulsions, blood glucose finger sticks, and using the handheld Doppler. Students are taught the proper methods of fitting for diabetic shoes, performing a foot and ankle arthrometric examination and casting methods for foot orthoses.

### **CMD 80325 Public Health Jurisprudence**

This course presents issues of concern to the practicing podiatrist and includes; the development of public health in America, disease prevention and control, environmental effects on health and disease, substance abuse, the role of the federal government in the provision of public health, the US health care system, occupational medicine, women's health issues, ethics in podiatric medicine and medical jurisprudence.

### **CMD 80424 Business Administration**

This course presents issues of concern to the podiatrist about to enter medical practice. Topics include the complete scope of business issues necessary to prepare the student to compete in a changing medical marketplace.



## Department of Podiatric Surgery

Division Head  
Matthew DeMore, D.P.M.

### **SUR 80221 Introduction to Podiatric Surgery**

This course is designed to provide the 2nd year podiatric medical student with a comprehensive understanding of the basic and fundamental principles and techniques of surgery, with emphasis on wound healing, closure techniques, hemostasis, lower extremity tourniquets and basic surgical procedures. Surgical and hospital protocol, charting, instrumentation and injection techniques are taught in this course, along with basic forefoot surgery, including nail disorders, soft tissue, skin tumors and digital surgery. The use of local anesthetic agents including indications, classification, pharmacology, adverse reactions (and treatment of such reactions) and injection techniques will be discussed. In addition, the course provides an orientation to operating room protocol, allowing students to master necessary techniques of asepsis, gowning, gloving and surgical scrubbing. Introduction to these skills will be taught in weekly workshops in the surgical skills lab.

### **SUR 80313 and 80323 Podiatric Surgery**

A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients.

This course provides the 3rd year podiatric medical student with the knowledge of surgical management

of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care.

These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures.

Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.

### **SUR 80325 Traumatology**

The purpose of the course is to provide the 3rd year podiatric medical students with a broad overview and appreciation of the major trauma areas of the foot, including the midfoot, rearfoot, ankle and lower leg. A strong effort is made to correlate the mechanical, surgical, physiologic and anatomic principles of surgery with emphasis on their implications and applications in major reconstructive surgery and the management of the trauma patient who presents with foot and/or ankle trauma. Surgical procedures for the management of specific trauma situations will be discussed, as well as indications, contraindications, and post-operative management. An overall view of the trauma patient as viewed in a Level I Trauma Center will also be included as this is a major responsibility for the podiatric physician treating the trauma patient.

### Clinical Education

Assistant Dean

Bryan Caldwell, D.P.M.

#### **Cleveland Foot and Ankle Clinic**

The mission of the Cleveland Foot and Ankle Clinic is to provide a quality clinical experience so that students will acquire the knowledge, skills, attitudes and values necessary to the successful practice of podiatry. The Cleveland Foot and Ankle Clinic was established in 1934. Providing foot health care to the greater Cleveland community has been an integral part of the Mission of the college since its inception and it is through the outpatient treatment center that the college meets the needs of its students and the community.

The Cleveland Foot and Ankle Clinic provides each student with clinical experience in the practice of podiatric medicine and surgery. Patients are examined, diagnosed and treated by a student under the personal supervision of a member of the clinical faculty, who assumes the primary responsibility for each patient. Other members of the faculty are consulted as required for the specific foot problem presented. In this way, the patient can always identify with a single faculty member who provides continuity of care. Interdisciplinary consultations are encouraged through an active medical staff providing both patients and students with the "health

care team" approach to modern medicine.

Patient care is supported by excellent services in medical imaging, medicine, surgery, biomechanics, laboratory medicine, and physical medicine and rehabilitation. The clinic provides the community with a program of early detection and prevention of potentially disabling foot problems in children. The clinic provides athletes with an excellent facility for the diagnosis, treatment and prevention of lower extremity injuries. The clinic provides the adult patient with comprehensive care for a wide variety of conditions ranging from diabetic foot infections to basic palliative measures.

#### **CLI 80101 Introduction to Patient Care**

The Introduction to Patient Care I clinical rotation provides the first year student an opportunity to directly observe patient care at the Cleveland Foot & Ankle Clinic. During the course of patient care at the Cleveland Foot & Ankle Clinic, students will assist in the development of differential diagnoses and observe patient management under the supervision of residents and faculty members. Students will interact with other students, staff, residents and clinicians. It is important during the course of patient care that the student understands the patient's concerns, complaints, psychosocial status, past medical history, and medications. Students will also develop good patient communication skills. The

student should use this opportunity as a guide to become professional and ethical podiatric physicians.

### **CLI 80201 Introduction to Patient Care II**

The Introduction to Patient Care II clinical rotation provides the 2nd year student an opportunity to directly observe patient care at the Cleveland Foot and Ankle Clinic and assist in the performance of history-taking and physical examinations. During the course of patient care at the Cleveland Foot and Ankle Clinic, students will elicit and perform a history and physical, develop differential diagnoses, and follow through with a regime for patient management under the supervision of a resident and faculty members. Students will interact with other students, staff, residents and clinicians. It is important during the course of patient care that the student understands the patient's concerns, complaints, psychosocial status, past medical history, and medications. The student should also understand differential diagnoses, diagnosis, treatment, and future plans for the patient. Students will also develop good patient communi-

cation skills. The student should use this opportunity as a guide to become a professional and ethical podiatric physician.

### **CLI 80200 Standardized Patient**

The standardized patients course offers second year students the opportunity to interview standardized patients and receive feedback on their patient interviewing and history recording skills which will prepare them to function competently in a doctor/patient encounter. Some students find that interviewing patients comes naturally, while for others it is more a learned skill. The standardized patients are actors who have been coached to simulate actual patients.

### Junior Clinical Rotations

#### **Department of Podiatric Medicine CLI 80320**

##### **Radiology/Medical Imaging**

Clinical rotations function by adapting and applying classroom information to real life, "hands-on" situations. A majority of foot complaints necessitate the taking and the reading of radiographs. As specialists of the foot and ankle, podiatrists are in a unique situation in being able to take and interpret radiographs in their own offices. Radiographic analysis is therefore an integral component of podiatric medical education.

The Radiology/Medical Imaging rotation focuses on those skills commonly performed by the podiatrist. This includes positioning and developing radiographs along with recognizing the most common pedal pathologies.

#### **CLI 80351 and CLI 80352 Podiatric Medicine/Biomechanics Rotations**

This rotation gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record their findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics, with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Clinic. This rotation also provides the student with the opportunity for observation and practice of examination skills

required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught and provided opportunities for practice of various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices. Emphasis in this rotation is on the practice and refinement of clinical evaluation and manual skills.

#### **CLI 80365 Primary Care/VA Hospital**

This is a one-month rotation at a veteran's health care facility, which emphasizes the skills necessary to function effectively in government health care facilities. Wound care is an integral part of this learning experience

### Department of General Medicine

#### **Associate Professor and Division Head**

**Edweena Robinson, M.D., M.P.H.**

#### **CLI 80340 CPR/ACLS**

CPR/ACLS is a course taught to 3rd year students at the beginning of the year. It is basic cardiopulmonary and advanced cardiopulmonary resuscitation. Students practice and take a written exam to demonstrate proficiency in these areas as required by the American Heart Association.

### **CLI 80370 History and Physical Rotation**

The History and Physical Rotation is a one month experience in one of several area hospitals, which is designed to provide experience in history and physical examinations. Each rotation site will provide the same core experiences, (based on the goals and objectives), in patient assessment techniques (i.e., history and physical examination), the understanding of disease processes, and management strategies. In addition to the core experiences, each rotation site may add additional exposures and training.

### **CLI 80390 Simulated Patient Rotation**

The simulated patient lab has been started to offer 3rd year students experiences and feedback not available in other rotations. The use of simulated patients to train students in medical education began about 10-15 years ago and has gained acceptance at many medical schools in the United States and abroad. Simulated patients are actors who are coached to simulate an actual patient so accurately that a skilled clinician could not detect the simulation. In performing the simulation, the simulated patient presents the "gestalt" of the patient being simulated—not just the history, but the body language and personality characteristics as well. Properly trained simulated patients will not vary in the picture they present from student to student. This provides standardization to teaching and evaluation, not offered elsewhere in the clinical curriculum. In addition, computerized patient scenarios are used to assist in development of clinical reasoning skills.

### **Department of Podiatric Surgery CLI 80310 Surgery Rotation**

The Surgery Clinic is a rotation that stresses complete pre-operative and post-operative management of the surgical patient. Many foot deformities can be corrected with surgery. Work up for the purposes of establishing proper diagnosis, selection of appropriate surgical procedure, and designing a proper follow-up plan are necessary components of successful surgical outcome. Proper post-operative patient care as well as early recognition of potential surgical complications will be stressed. These are essential to a successful surgical practice. While the scope of surgery will vary greatly with differences in postgraduate training, there exists a basic core of knowledge and various techniques that are consistent with successful surgical outcome. In order to be a successful surgeon, it is imperative that the student master those basic skills that will be utilized throughout his or her career. This rotation will be the foundation upon which you build your surgical career.

### **CLI 80315 Surgical Skills Workshop**

The purpose of this rotation is to provide students with knowledge and hands-on training pertaining to the physical skills which are necessary to perform surgery of the foot and ankle. An effort is made to correlate didactic information learned in the classroom with the rationale behind why many surgical procedures are performed. Adequate demonstration of surgical skills will be provided along with practice time and constructive performance feedback. Upon successful completion of this rotation, students should possess a basic understanding of and the ability to perform physical skills which are necessary in foot and ankle surgery.

### Senior Clinical Rotations

#### CLI 80440 Senior Clinical Rotation

The senior podiatric rotation is a two month rotation at the Cleveland Foot and Ankle Clinic, which emphasizes competencies, needed to enter hospital residency training.

Experiences are gained in primary clinical sites and external sites affiliated with the college.

#### CLI 80455 Community Medicine/ Medical Imaging Rotation

This rotation also includes training in various imaging modalities including plain film radiography, MRI, and CT scanning. Students are assigned to community-based clinics and treat patients under the supervision of members of the clinical faculty. These clinics afford students the opportunity to provide care and develop an understanding and appreciation of community based health problems.

#### CLI 80491 Senior Medicine Rotation

This is a two-month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.

#### CLI 80496 Clerkship Rotation

The clerkship program is designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in national hospitals and private practices across the country.

Office and hospital based programs, available in almost every state, offer a diversity of clinical experiences to KSUCPM students. Students are expected to participate in a minimum of five months of external rotations during their 4th year. An orientation is conducted and a complete handbook of information is provided to the 3rd year student to assist in this important educational process

#### CLI 80498 Senior Competency

Educational outcomes will be attained as a result of the cumulative effect of both didactic Instruction in the basic medical sciences and clinical courses, as well as clinical experiences afforded through clinical rotations and externship experiences. The goal is to prepare the graduate for entry into postdoctoral training programs whereby the student will:

Demonstrate knowledge of the pre-clinical sciences which provide foundations of Podiatric clinical training, residency training, and professional practice

Prevent, diagnose and manage diseases and disorders of the lower extremity in a cost-effective manner

Assess medical conditions that affect the lower extremity and refer, as appropriate, those patients with conditions as identified during the evaluation

Practice with professionalism, compassion, and concern in an ethical fashion regardless of the patient's social class, gender, racial or ethnic background

Demonstrate the ability to communicate and work collaboratively with others and to function in a professional manner in an inter-professional setting

Demonstrate Practice  
Management of patient care in a variety of communities and health care settings

Demonstrate an understanding of podiatric practice in a multitude of health-delivery settings

Demonstrate the ability to understand research methodology and other scholarly activities



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