

Chiropody Program

BAIP113 Foundations Interprofessional Collaboration I

The Foundations of Interprofessional Collaboration 1 provides the learner with the context for the practice of interprofessional collaborative patient centered care in the health care professions. The learner will investigate modes of self assessment and identity management, various models of effective communication and develops skills for effective collaboration. Each week consists of two (2) hours of instructional time. The two (2) hours is an interprofessional session set up with one (1) facilitator and approximately 25 students. The topic is introduced in the first part of the session and is explored more deeply through learning activities throughout the rest of the 2 hour session. Additionally, the process and practice of collaboration is highlighted and reaffirmed. Students are successful in this course when they complete the required readings before each session and attend the weekly sessions. Students are expected to engage in problem solving and effective thinking exercises. Active participation in the sessions as co-learners and co-facilitators will help us learn with, from and about each other.

APCH111 Structure and Function of the Lower Limb

Understanding the anatomical organization of the lower extremity is essential for effective assessment and treatment of foot disorders. This course presents the detailed microscopic and macroscopic anatomy of the lower limb. The learner will be introduced to anatomical terminology commonly used within medicine, in addition to the specialized terminology more commonly applied in the practice of podiatric medicine.

Upon satisfactory completion of this course the learner will be able to describe the normal structures of the lower limb, as well as explain their anatomical and functional significance. Laboratory instruction includes use of skeletal materials, anatomical models, anatomical computer software and simulated patients. This course is augmented by a separate detailed dissection course of the lower limb.

APCH110 Lower Extremity Anatomy Dissection

The overall objective for the learner is to obtain functional knowledge of normal human gross anatomy as a basis for the study and practice of podiatric medicine. In the cadaver lab the learner will explore the musculoskeletal system of the lower limb by dissection. The learner will develop a working image of the human lower limb and its constituent tissues and function so that he or she may recognize abnormal anatomy and function caused by altered anatomy.

Upon satisfactory completion of this course, the learner will be able to describe all major structures of the lower limb, state their relationships, and explain their basic functions. In addition, the learner will be able to describe the functional significances of common variations in lower limb anatomy. The learner will be able to demonstrate this knowledge by solving basic functional and clinical problems encountered in course examinations.

PGCH110 Pathophysiology

This course uses a systems approach to examine concepts in pathophysiology as a basis for podiatric medical practice in primary health care. The course is designed to provide the student with an understanding of diagnosis, etiology, pathophysiology, clinical manifestations and treatment of a wide variety of illnesses of the human body. Special emphasis is placed on systemic disorders affecting the lower extremity. This course focuses on altered cell biology, hemostasis and hemodynamic disorders, inflammation, cardiovascular alterations, infectious diseases, endocrine dysfunction, immune system alterations and genetic disorders. This comprehensive course enables the student to recognize medical conditions outside of podiatric medicine and refer to appropriate medical practitioner.

POCH111 Podiatric Medicine I

This is a comprehensive course, which covers the fundamental concepts and conditions seen in podiatric medicine. This course will educate the learners in the areas of assessment, management and prevention of diseases related to the foot. Emphasis will be on the principles of examination and diagnosis in clinical management. This course will provide a foundation for the learners in preparation for POCH 122 and CLCH 120.

DMCH121 Dermatology

This is a comprehensive course in the basic and clinical aspects of cutaneous medicine. It provides the foundation that will enable the podiatric medicine student to recognize and understand a considerable number of diseases in which the skin is solely or largely the central focus of the disturbance.

BAIP124 Foundations of Interprofessional Collaboration II

BAIP 124 builds on the foundations laid in BAIP 113. You will spend your time in this course continuing to learn with, from and about students and faculty from other programs and disciplines. The focus of this course is on the examination of the four-fold impact of interprofessional collaboration; patient, professional, organizational and system outcomes (Corser, 1998; D'Amour et al., 2004; Miller, 1997; West et al., 1998). You will have a number of opportunities throughout the course to practice and be assessed on your developing interprofessional collaborative skills, based on an exploration of each of the four elements. Building on the themes covered in BAIP 112, we will: examine collaborative practices and convert these into action; practice interprofessional collaboration; and focus on the practices of professionalism, patient safety, policy, ethics, patient diversity, patient advocacy, collaboration and teamwork..

BMCH121 Podiatric Biomechanics I

This is an introductory course that will cover normal human biomechanics of the lower extremity. The intent of this course is to provide the learner with a thorough understanding of human gait, with an emphasis on normal foot function in the gait cycle. Basic Podiatric biomechanical examination techniques, including gait analysis, will be taught, demonstrated, and practiced to allow the learner to recognize and assess normal biomechanics of the lower extremity. The intent of this course is to provide the learner with an understanding of normal biomechanical function of the lower extremity within the simulated clinical setting and through this understanding of normal structure and function, the learner will be prepared to study pathomechanics.

PGCH120 Pathophysiology II

This course uses a systems approach to examine concepts in pathophysiology as a basis for podiatric medical practice in primary health care. The course is designed to provide the student with an understanding of diagnosis, etiology, pathophysiology, clinical manifestations and treatment of a wide variety of illnesses of the human body. Special emphasis is placed on systemic disorders affecting the lower extremity. This course focuses on neoplasia, hematological disorders, pulmonary alterations, renal system disorders, musculoskeletal disorders and neurological disorders. This comprehensive course enables the student to recognize medical conditions outside of podiatric medicine and refer to appropriate medical practitioner.

PMCH121 Clinical Pharmacology

This course has two main components. The first provides the understanding of Pharmacokinetics, Pharmacodynamics and outlines the principles of drug classification based on molecular, cellular, organ and system target, mechanisms of action and therapeutic indications.

Articulation of the principles presented in the first component is an absolute pre-requisite to the study of Systems Pharmacology, the second component of the course. The mechanisms of action and therapeutic indications of drug on the various morpho-functional systems are analyzed. An integrated approach to drug action is described, based on the assessment of the physiological and pathological processes and therapeutic applications. Identifying these principles and applying them in a systematic manner provides the tools for the therapeutic implementation of an evidence-based drug use.

POCH122 Podiatric Medicine II

This course is designed to further the learner's understanding of conditions that result in pain or deformity of the foot. The course will educate the learners in the areas of assessment, management and prevention of diseases, disorders or dysfunction of the foot by therapeutic, orthotic or palliative means. The course includes an extensive laboratory component to educate the learners in the application of theory and clinical skills required for patient care. The intent of this course is to lay the foundation for the learners in preparation for their clinical site rotation(s).

CLCH121 Podiatric Practice I

During this clinical rotation the student will be provided with the opportunity to observe and perform evaluation and treatment of lower extremity diseases and disorders. The focus of this rotation will be on the podiatric history, podiatric assessment and non high risk routine care. Under the guidance and instruction of attending chiropodist, podiatrist and/or medical staff, the student will apply his/her theory and laboratory knowledge to patients who present with a variety of foot and ankle disorders and systemic diseases. This will help the student begin to understand the complexity and nature of podiatric practice.

This component of the program is designed to provide the first steps to a broad range of clinical experiences, which will allow the student to apply patient management skills, effective communication and professionalism in a learningcentered and interprofessional environment.

RMIP231 Research

This course provides an introduction to research methods and designs relevant to healthcare practitioners. The course will focus on an introduction to various research designs including experimental and non-experimental, as well as quantitative and qualitative research methods. In addition, the course will focus on providing a practical understanding of several statistical tools used in medical and health research. The emphasis will be on knowing when to use the various tests, what they measure, and how to interpret results.

IGCH230 Laboratory Diagnosis and Imaging

This course is designed to provide the learner with the ability to understand and evaluate common laboratory and imaging tests that may arise in the clinical setting as an aid in management of the podiatric patient. A number of diagnostic disciplines will be considered, such as hematology, biochemistry, immunology, microbiology, radiography, MRI, ultrasound, Doppler, bone density, etc. The learner will be expected to relate theoretical material to the clinical setting and be able to interpret and discuss the implications of laboratory & imaging test results as they relate to a series of patient case studies. This course will give the student the opportunity to develop their critical thinking and clinical reasoning skills.

BMCH230 Podiatric Biomechanics II

This course will focus on the primary structural and functional abnormalities of the foot, in which the practitioner is commonly presented. The influence of these abnormalities on gait is considered in conjunction with their potential to cause secondary soft tissue and structural conditions. This course reviews the single plane deformities of the lower extremity and their affect on normal function. It also deals with the etiology, clinical diagnosis and management of

common orthopaedic foot and ankle problems and establishes all of the criteria for foot function and the structures involved and how to alter abnormal foot function. As well gait is completely reviewed. This will provide the student with a thorough approach to normal and abnormal locomotion, and enable the student to create a treatment plan to improve the mechanical function of the foot. This course examines the application, fabrication and use of various lower extremity foot orthotic devices in t he treatment of biomechanical anomalies. Included in the course are theoretic and practical sessions on foot casting techniques, foot orthotic fabrication, orthotic dispensing and adjustment.

LACH230 Podiatric Anesthesia and Injections

This course looks at the use of anaesthesia and injection techniques. The understanding of principles and safety measures related to the administration of injectable substances into the foot will be covered, with an emphasis on digital and ankle nerve blocks. Topics such as presurgical history and physical assessment, treatment protocols for common office emergencies related to injection procedures, informed consent, charting, injection instrumentation and simulated injections will be discussed as well as applied in the laboratory setting. The application of injectables in relation to management of various podiatric conditions will be practised by the learner on simulated 'foam' feet in the laboratory

POCH230 Podiatric Medicine III

This is a comprehensive course covering the advanced concepts and conditions seen in podiatric medicine. The course will educate the learners in the areas of rheumatological foot, the geriatric foot, the painful foot, as well as cover special populations such as tropical diseases, homeless and aboriginal populations. Indepth podiatric case management plans will undertaken, with a particular focus on patient interactions and health promotion.

CLCH231 Podiatric Clinical Practice II

During this clinical rotation the student will be provided with the opportunity to observe and perform evaluation and treatment of lower extremity diseases and disorders. The focus of this rotation will be on integrating the results of the podiatric history, podiatric assessment and combining podiatric routine care. Under the guidance and instruction of attending chiropodist, podiatrist and/or medical staff, the student will apply his/her theory, laboratory knowledge and previous clinical practice to patients who present with a variety of foot and ankle disorders and systemic diseases. This will help the student continue to understand the complexity and nature of podiatric practice.

This component of the program is designed to provide a broad range of clinical experiences, which will allow the student to apply patient management skills, effective communication and professionalism in a learningcentered and interprofessional environment.

IPCL251 Interprofessional Collaborative Clinical Simulation

This course is designed to provide you with the necessary interpersonal and professional skills required to practice in a clinical environment. You will learn how to model your professional role within a collaborative interprofessional team while planning to optimize patient care and safety. You will have multiple opportunities to use self-reflection, exercise judgment and integrate core professional abilities in a simulated environment. Upon successful completion of this course, you will be able to apply your profession-specific and interprofessional knowledge, skills and judgment from the simulated to the clinical environment.

The learning objective at this stage in your development is to integrate your interprofessional and discipline competencies in a simulated environment. As such, you are expected to behave in a professional manner as though you were in clinical practice. You will be evaluated based on higher expectations of professional performance as you transition from student to novice practitioner. Your facilitators will work with you to ensure your progress and develop over time.

POCH240 Management of the High Risk Foot

This course is designed to provide the learner with an understanding of how to recognize and manage the "high-risk foot". It will provide a closer overview of the manifestations of peripheral vascular disease, diabetes mellitus and neurological disorders in the foot. This course will look at the epidemiology, chronic complications and management of those conditions. A comprehensive overview of the medical, surgical and podiatric aspects of the diseases will be integrated with patient management strategies. This course will also look at methods of preventing complications in the high-risk foot and effectively managing complications such as, but not limited to wound/tissue breakdowns, infections and/or tissue necrosis.

PECH240 Podopediatrics

This course is designed to give the learner an understanding of how to recognize, assess, and treat conditions affecting the lower extremity of the developing child. Normal development is considered and provides the basis for the study of the developmental abnormalities and the pathological conditions that children may present with. History taking, physical examination, and diagnosis of the pediatric patient are also discussed. The psychosocial issues encountered in treating children are highlighted. Interpretation and gait analysis of both the normal and abnormal are also discussed.

SMCH240 Podiatric Sports Medicine

This course is designed to provide the student with basic understanding of prevention, treatment and rehabilitation of sports injuries of the lower limb. It will integrate the normal and abnormal biomechanics previously learned. This course will also provide the student with a comprehensive understanding of all physical therapy modalities and procedures used in rehabilitation of sports injuries.

TSCH240 Podiatric Soft Tissue Surgery

This course builds upon the content delivered in the Podiatric Anesthesia & Injectables course and provides the learner with a working knowledge of the soft tissue and osseous pathologies that affect the toes, lesser metatarsals and the first ray. During the course, the structure and function of the forefoot will be discussed, and patient evaluation and perioperative management with respect to specific surgical procedures will be described. In addition to soft tissue surgery, specific reconstructive surgical procedures will be discussed with a view for appropriate referrals. This course is designed to familiarize the student with the appropriate diagnostic techniques, and accepted conservative and surgical treatment of patients suffering diseases and disorders of the forefoot. Office surgery and sterile surgical protocols, charting, instrumentation, hemostasis, closure techniques, joint aspiration, plastic surgery techniques and wound healing will be reviewed.

CLCH241 Podiatric Clinical Practice III

During this clinical rotation the student will be provided with the opportunity to observe and perform evaluation and treatment of lower extremity diseases and disorders. The focus of this rotation will be on integrating the results of the podiatric history, podiatric assessment and combining podiatric routine care including scalpel technique and potentially assisting the clinical instructors in minor soft tissue procedures under local anesthetic. Under the guidance and instruction of attending chiropodist, podiatrist and/or medical staff, the student will apply his/her theory, laboratory knowledge and previous clinical practice to patients who present with a variety of foot and ankle disorders and systemic diseases. This will help the student continue to understand the complexity and nature of podiatric practice.

This component of the program is designed to provide a broad range of clinical experiences, which will allow the student to apply patient management skills, effective communication and professionalism in a learning-centered and interprofessional environment.

LSIP250 Leadership in Health Care

This on-line course is designed to provide you with the opportunity to discuss pertinent theories of leadership with your colleagues in order to develop leadership skills in relation to your participation in health care teams. It will provide you with a broad overview of current theories, principles and perspectives on the leadership role in an Interprofessional environment. Dialogue, discussion & participation in the online discussion forums will enable you enhance your understanding of your role in the multiple dimensions of leadership.

EBCH250 Evidence Based Medicine Care

This course is designed to provide the learner the opportunity to integrate the theoretical and practically oriented knowledge underlying the podiatric management of patients. A problem-based approach to learning will be adopted to promote open, critical thinking and cases will be presented to the student using a variety of formats. Small group work will be utilized promoting effective teamwork and collaborative learning. An evidence-based approach to clinical decision making and practice will also be emphasized which promotes the collection, interpretation and integration of valid research-derived evidence.

CLCH251 Podiatric Clinical Practice IV

During this clinical rotation the student will be provided with the opportunity to observe and perform evaluation and treatment of lower extremity diseases and disorders. The focus of this rotation will be on integrating the results of the podiatric history, podiatric assessment performing podiatric care including scalpel technique, biomechanical care and assisting the clinical instructors in minor soft tissue procedures under local anaesthetic. Emphasis will be place on clinical integration of didactic concepts and competent podiatric care. Under the guidance and instruction of attending chiropodist, podiatrist and/or medical staff, the student will apply his/her theory, laboratory knowledge and previous clinical practice to patients who present with a variety of foot and ankle disorders and systemic diseases. This will help the student continue to understand the complexity and nature of podiatric practice.

This component of the program is designed to provide a broad range of clinical experiences, which will allow the student to apply patient management skills, effective communication and professionalism in a learningcentered and interprofessional environment.

LPCH360 Legislation & Practice Management

This course will develop the learner's ability to employ business strategies in the management of a podiatric medicine practice. Legislative and non-legislative requirements governing Chiropodists will be reviewed and further explored by developing a clinic policy and procedure. A jurisprudence examination will also be taken by the learners to evaluate their knowledge, skills and judgment in this important area.

The learner will determine the demographic, location, human resource, equipment, supply, insurance and financial management requirements necessary to operate a practice. Learners will then use their research to develop a business plan for the creation of their own future Podiatric medicine practice.

CLCH361 Podiatric Clinical Placements (Clinical Practice V)

During this rotation, the student will continue with their clinical exposure which provides opportunity to evaluate and successfully manage lower extremity diseases disorders and dysfunctions. Under the guidance and instruction of attending chiropodial, podiatric and medical staff, the student will apply his/her theory and laboratory knowledge to patients with a variety of foot and ankle disorders. Interprofessional education will be emphasized throughout the clinical exposure.

This component of the program is designed to provide a broad range of clinical experiences, which will allow the student to apply patient management skills and professional skills in a learning-centered environment.

RMCH360 Research Project

This course is an on-line course which involves independent study in which the learner will apply fundamental research principles in the clinical setting. Students will be required to progressively complete an academic research proposal on a topic related to their chosen profession. The proposed topic should be innovative and fresh, challenging the current professional practice. Additionally, students will summarize their proposal in to a Research Poster, a common format used in profession related presentations.

This course builds upon the knowledge and skills related to planning and conducting applied research that the learner has obtained in Interprofessional Research (RMIP230) and, if applicable, Evidence Based Medicine (EBCH 250). It also encourages the learner to develop as a reflective practitioner who adopts an evidencebased approach to practice.

CLCH372 Podiatric Clinical Externships

During this external rotation, the student will continue with their clinical exposure which provides opportunity to evaluate and successfully manage lower extremity diseases, disorders, and dysfunctions. Under the guidance and instruction of attending podiatric and affiliated medical practitioners, the student will apply his/her theoretical and practical knowledge to patients with a variety of foot and ankle disorders. Interprofessional education will be encouraged throughout the clinical exposure where possible.

This rotation is undertaken with the assistance of our affiliated clinical sites provincially, nationally and potentially, internationally. During this time students will rotate through a number of different external clinical settings ranging from private practice, community health centres and hospital-based settings. The rotations are divided into two possible study blocks for a total of 13 weeks. Students will practice podiatric medicine/podiatry under the guidance and instruction of a registered chiropodist/podiatrist and can participate in clinics including: podopediatrics, high risk/wound management, sports medicine and rehabilitation, biomechanics , podiatric surgery, research and interprofessional rotations. It is a requirement that students have a current CPR certificate, have undertaken a police check and have up-to-date immunization.

This component of the program is designed to provide a broad range of clinical experiences, which will allow the student to apply patient management skills and professional skills in a learning-centered environment.