This course provides a comprehensive regional exploration of gross human anatomy, specifically on the musculoskeletal system, blood vessels, and nervous system of the lower extremities. This course also emphasizes the structural-functional relationships in the lower extremity including genetics, histology, and the cardiovascular, pulmonary, integumentary, and lymphatic systems. The course features lectures complemented by laboratory sessions using 3D anatomy software, mixed reality, and synthetic anatomical models.

The lab component utilizes a blend of dry models, virtual 3D simulations, and mixed reality to delve into the anatomy of the lower extremities, emphasizing the musculoskeletal system, blood vessels, and nervous system. Through detailed anatomical studies, students will gain a profound understanding of how structure complements function, enriched by insights into genetics, histology, and various body systems including cardiovascular, pulmonary, integumentary, and lymphatic.

This course delves into the basic physiological principles necessary for understanding the function and dysfunction of various body systems, establishing a foundation for comprehending diseases and their impact on health and wellness across the lifespan. The course includes clinical applications of genetics, cellular function and metabolism, nutrition, immunity, inflammation, and the function of integumentary, cardiovascular, pulmonary, lymphatic, musculoskeletal, urinary, gastrointestinal and reproductive systems. Additionally, the course will also introduce pain science including human growth and development and aging processes of the body.

This course introduces students to basic clinical skills, problem-solving, and clinical decision-making abilities as a clinician within the Patient/Client Management and International Classification of Functioning, Disability and Health (ICF) models. Students will also be introduced to patient care activities including physical therapy examination, assessment and therapeutic interventions. Students will also develop their communication skills as a clinician specifically for interacting with patients, families, and other health care professionals and appropriate documentation of these interactions.

The lab component of this course immerses students in hands-on learning of fundamental clinical skills, fostering their ability to problem-solve and make clinical decisions within the frameworks of Patient/Client Management and the International Classification of Functioning, Disability, and Health (ICF) models. Through practical exercises in patient care, including physical therapy examination, assessment, and therapeutic interventions, students will also refine their communication skills for effective interaction with patients, families, and healthcare professionals, alongside refining the documentation of these interactions.

This course introduces the fundamental concepts of biomechanics and kinesiology as they relate to human motion analysis. It focuses on the osteokinematic and arthrokinematic aspects of human movement and gait, highlighting the impact of injuries and pathologies on movement patterns. Through direct observation and video analysis of diverse age groups, including children, adults, and older adults, students will learn to assess and interpret various movement dynamics.

In the lab component of this course, students engage in clinical applications of biomechanics and kinesiology, focusing on the intricacies of human movement and gait across different age groups. This hands-on experience enables students to examine the effects of injuries and pathologies on movement patterns, enhancing their skills in assessing and interpreting osteokinematic and arthrokinematic aspects of human motion.

This course delves into the history, practice, and evolving profession of physical therapy within the healthcare system. It emphasizes professional behaviors, cultural competence, effective communication, and interpersonal skills. Topics include the role of the physical therapist in a dynamic healthcare environment, ethical and moral conduct, and the professional standards including the American Physical Therapy Association and World Physiotherapy standards. The course introduces billing, coding, documentation, patient-centered care, diverse communication strategies, and the exploration of teaching and learning styles. Students will learn the importance of professionalism, patient advocacy, and ethical decision-making in patient care.

This course offers an integrated approach to developing evidence-informed practice skills in clinical problem-solving and critical thinking. It focuses on key competencies such as logical reasoning, problem synthesis, hypothesis generation, reflective practice, and decision-making. Additionally, the course includes a thorough analysis of research evidence and an exploration of various research designs. This foundation prepares students for advanced practice in the clinical settings.

This course provides a comprehensive regional exploration of gross human anatomy, specifically on the musculoskeletal system, blood vessels, and nervous system of the head, neck, upper extremities, and trunk. This course also emphasizes the structural-functional relationships in the head, neck, upper extremities, and trunk including the abdomino-pelvic cavity. The course features lectures complemented by laboratory sessions with 3D anatomy software, mixed reality, and synthetic anatomical models.

The laboratory sessions of this course enrich students' understanding of gross human anatomy, focusing on the musculoskeletal system, blood vessels, and nerves system of the head, neck, upper extremities, and trunk, through the use of 3D anatomy software, mixed reality experiences, and synthetic anatomical models. These interactive lab experiences are designed to highlight the intricate structural-functional relationships within these regions, including detailed exploration of the abdomino-pelvic cavity.

This course is the first of a three-course series of physical therapy management of patients with musculoskeletal dysfunctions with an emphasis on knee, ankle, and foot conditions. The patient/client management model, the International Classification

This course introduces the physiologic and metabolic responses of the human body to commonly used medications. Course content has been organized to provide a theoretical knowledge base that can be used as a framework for understanding the effects of various medications on a variety of normal and pathologic conditions. The focus of the course includes concepts, principles, and applications of pharmacotherapeutics in the management of persons with physical disabilities, movement dysfunction, and pain resulting from injury, disease, disability, and other acute or chronic health-related conditions.

This course offers an in-depth exploration of wellness within the context of physical therapy, highlighting the importance of health promotion at the individual, community, and societal levels. It incorporates a comprehensive understanding of the social determinants of health, examining how socioeconomic

This course provides theoretical and practical instruction for the examination, assessment, and therapeutic intervention strategies within the patient/client management and International Classification of Functioning, Disability, and Health (ICF) models for patients with cardiovascular and pulmonary disorders. Students will learn to create a physical therapy plan of care for selected cardiovascular and pulmonary dysfunctions using clinical reasoning based on diagnostic, ECG, pharmacologic, and clinical laboratory data.

The laboratory sessions of this course equip students with hands-on experience in the examination, assessment, and development of therapeutic interventions for cardiovascular and pulmonary disorders within the patient/client management and International Classification of Functioning, Disability, and Health (ICF) frameworks. Utilizing scenarios, students will apply clinical reasoning to design comprehensive physical therapy care plans, incorporating diagnostic, ECG, pharmacological, and clinical laboratory data to add`

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This course covers physical therapy management for medically complex patients in acute, subacute, and post-acute care settings within the patient/

management tailored to the older adult population. Through practical application, students will learn to develop comprehensive treatment plans that encompass assessment, education, and therapeutic interventions, while also engaging in interdisciplinary team care and advocacy. This lab experience emphasizes the importance of understanding the unique physical, psychological, and emotional aspects of aging, including addressing barriers to quality longevity and integrating wellness and nutrition strategies tailored to older adults.

This course is designed to synthesize and apply all previous coursework to simulated clinical scenarios, encompassing acute, subacute, and chronic cases. It emphasizes contemporary physical therapy practices, focusing on critical patient/client management decisions. Students will be challenged to analyze examination fndings, formulate accurate diagnoses, and execute evidence- (ecut)9ok5snce- (ecut)9ok5sncegrmotional aspec

This course is the last of a series of four full-time clinical education experiences, during which students practice under the guidance of licensed physical therapists. Students will be placed in a variety of clinical settings, such as acute care, outpatient clinics, inpatient rehabilitation, and specialized areas, to ensure they have suffcient opportunities to apply the skills learned in didactic and laboratory settings. These clinical placements are designed to cover a broad spectrum of physical therapy practice, including but not limited to the management of musculoskeletal, neuromuscular, cardiopulmonary, and integumentary system dysfunctions. Additionally, these experiences will introduce students to a wide range of patient ages and care levels. Students will be expected to practice at the level of 7 using the global rating scale,Always for Professional Behaviors andAt that level for all patients for Patient Management.

This capstone course represents the culmination of the foundational knowledge and skills acquired in Evidence-Informed Practice I and II. It focuses on the comprehensive application and synthesis of both academic and clinical learning. Students are tasked with developing and presenting a professional project that epitomizes the principles of scholarly inquiry. This pivotal project will integrate and showcase their mastery of evidence-based practices, critical analysis, and clinical insights, solidifying their readiness for professional practice in physical therapy.