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SEMESTER 1

PTED 71000- Human Anatomy 1 (2)

This course provides a comprehensive regional anatomy of 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.

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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.

PTED 71100- Human Physiology (3)

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, 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.

PTED 71300- Fundamental Skills in Physical Therapy Practice (2)

This course introduces students to basic clinical skills, problem-solving, and clinical decision-making abilities as a clinician within the Patient/Client Management 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 skills for interacting with patients, families, and other health care professionals and appropriate documentation of these interactions.

PTED 71301- Fundamental Skills in Physical Therapy Practice (2)

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 Disability and Health (ICF) models. Through practical exercises in patient care, including

physical therapy examination, assessment, and their communication skills for effective interaction with patients, families, and healthcare professionals, and appropriate documentation of these interactions.

SEMESTER 2

PTED 72000- Human Anatomy 2 (2)

This course provides a comprehensive regional screening, examination, and assessment, focusing 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.

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The laboratory sessions of this course enrich students' understanding of gross human anatomy, focusing on the musculoskeletal system, blood vessels, and nervous 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.

PTED 72100- Musculoskeletal 1 (2)

½ ÖÛ7j M/7²jÛ7jEÖ²jÛ/7Ej ìjþjEÖ/²²9 M/7²j7²/Û²7j ìj physical therapy management of patients with musculoskeletal dysfunctions with an emphasis on knee, ankle, and foot conditions. The patient/client üþþí²ü²þEjü «²ó jEÖ²jUþE²/þþEÛ þþó óþ77ÛÛþþEÛ þj of Functioning, Disability, and Health (ICF) framework, þþ«j7,²MÛÛþþóÛþÛþþóþ/²þ7 þÛþíjE ó7jMEÛóÛv²«jÛþj musculoskeletal physical therapy practice will be introduced. Clinical applications and cases are used to emphasize the process of patient management including examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, þþ«j/²9þ77²77ü²þE jG²þ²/þóþþþ«j7,²MÛÛþþkþüþþEÛ þj and treatment techniques are included stressing the integration of knowledge, skills, clinical reasoning, and þþþó17Û7 k

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The laboratory component of this course offers hands-on experience, reinforcing the theoretical knowledge covered in lectures through the application of examination, assessment, diagnosis, prognosis, E/²þEü²þE jþþ«j/²9þ77²77ü²þEjE²MÖþÛ.M²7j7,²MÛÛþþj to musculoskeletal dysfunctions of the knee, ankle, þþ«jì E j⁻EM «²þE7jfüóój./þþEÛ²j²þ²/þóþþþ«j7,²MÛÛþþj examination and treatment strategies, integrating clinical reasoning and analysis skills within the framework of patient/client management and the UþE²/þþEÛ þþó óþ77ÛÛþþEÛ þj ìjFMþþEÛ þÛþí j%Û7þ£ÛóÛEì j and Health (ICF) models.

PTED 72200- Clinical Neuroscience (1)

This course provides an in-depth understanding of the nervous system within the patient/client management þþ«jEÖ²jUþE²/þþEÛ þþó óþ77ÛÛþþEÛ þj ìjFMþþEÛ þÛþí j Disability, and Health (ICF) models, which is essential for treating neurological dysfunctions. It covers important aspects of the neuromuscular system with an emphasis on neuroplasticity and its relationship with human

movement, posture, coordination, balance, cognition, and sensory integration. Furthermore, the course integrates these concepts with patient functioning and disability. Students will learn to perform neurological screening, examination, and assessment, focusing on the whole patient. This approach is crucial for creating a personalized and effective plan of care.

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In the laboratory sessions of this course, students engage in hands-on practice of neurological screening, examination, and assessment techniques, emphasizing a holistic patient-centered approach. These interactive labs allow for the application of theoretical concepts learned in lectures, such as neuroplasticity, human movement, and sensory integration, within the framework of patient/client management and the UþE²/þþEÛ þþó óþ77ÛÛþþEÛ þj ìjFMþþEÛ þÛþí and Health (ICF) models.

PTED 72300- Pathophysiology (3)

This course delves into the foundational principles of disease mechanisms within the human body, elucidating the intricate connection between pathological processes and their impact on system impairments, functional limitations, and disablement across cellular, tissue, organ, and wholeFSy i> /P8 0.58 0.4c

SEMESTER 3

PTED 73000- Pharmacology (2)

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.

PTED 73100- Musculoskeletal 2 (2)

This course is the second of a three-course series of physical therapy management in patients with musculoskeletal dysfunctions with emphasis on the thoracic spine, lumbar spine, sacroiliac joint, pelvis, and hip conditions. Clinical applications and cases are used to emphasize the process of patient management including examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and treatment techniques are included stressing the integration of knowledge, skills, clinical reasoning, and

SEMESTER 4

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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 health outcomes. Students will delve into a variety of wellness-related topics from a physical therapy standpoint, addressing the physical, mental, and social aspects of wellness. The course underscores the health promotion strategies for physical therapy practice. Additionally, it provides practical experience through client/patient interactions in the community, all under the guidance of a faculty.

PTED 74001- Community Health & àµööL!µƆ Đ mŠ! @ÁA

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PTED 75500- Medically Complex Patient Management (2)

This course covers physical therapy management for medically complex patients in acute, subacute, and post-acute care settings within the patient/ of Functioning, Disability, and Health (ICF) models. It emphasizes an interprofessional approach, integrating physical therapists into a broader healthcare team. Students will engage with various medical and surgical conditions, applying evidence-based strategies and contemporary practices in patient care. The course aims to equip students with the skills necessary for effective management of complex medical conditions, focusing on comprehensive assessment, therapeutic intervention planning, and collaborative care strategies.

PTED 75501- Medically Complex Patient Management (2)

In the laboratory sessions of this course, students will gain practical experience managing medically complex patients in acute, subacute, and post-acute care settings, applying the patient/client management and of Functioning, Disability, and Health (ICF) models. Through hands-on activities, students will work with a range of medical and surgical conditions, utilizing evidence-based practices and an interprofessional approach to patient care.

PTED 75800- Adaptive & Assistive Technology (1)

This course provides an in-depth understanding of the biomechanical principles underlying the design and function of orthotics and prosthetics, as well as a range of adaptive and assistive technologies. Students will engage in the examination, evaluation, and treatment of individuals requiring upper and/or lower-extremity prosthetics, orthotics, and other assistive technologies. The course emphasizes the use of assistive technology to enhance functional capacity. Special attention is given to both normal and pathological gait analysis in the context of assistive and adaptive technology use. Through case studies, students will explore comprehensive physical therapy management strategies for individuals with limb loss, enhancing their skills in applying these technologies effectively in clinical practice.

PTED 75801- Adaptive & Assistive Technology (1)

In the laboratory component of this course, students will engage in practical exercises that emphasize the examination, evaluation, and application of both orthotic and prosthetic devices, as well as a wide array of adaptive and assistive technologies for individuals with upper and lower extremity needs. By focusing on gait analysis and the strategic use of these technologies, students will learn to address and manage functional limitations effectively. Through interactive case studies, the course aims to enhance students' capabilities in crafting comprehensive physical therapy strategies, integrating assistive and adaptive technologies to improve functional capacity and quality of life for patients experiencing limb loss or other mobility challenges.

PTED 76000- Clinical Education 1 (8)

This course marks the beginning 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, where they will apply and refine 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. For this initial clinical experience, students are required to perform at a level 4 on the global rating scale, demonstrating most of the time the skills learned in didactic and laboratory settings. This framework ensures that students progressively develop their clinical skills and professional behaviors throughout their clinical education.

PTED 76001- Clinical Education 2 (8)

This course will cover management, supervision, and entrepreneurship tailored to physical therapy practice. Topics covered include human resource management, billing, business development, risk management, mentorship, legal and ethical considerations (ADA documentation, and accreditation standards (OSHA, JCAHO and CARF). The course also emphasizes personal career development, networking, negotiation skills, and a detailed examination of physical therapy regulations in Illinois. Aimed at preparing students for leadership roles, this course equips them with the skills needed for effective advocacy, management, and professional growth in the physical therapy profession.

PTED 76200- Geriatric Physical Therapy (1)

This course addresses the physical therapy examination, evaluation, intervention, and management of clinical problems associated with aging, especially for those provided with the knowledge base for understanding the demographics of aging, as well as the physical, psychological, and emotional aspects of healthy human aging including the effects of age-related physical changes as well as chronic conditions commonly found in older adults. Students will formulate plans for the treatment of the older adult patient including assessment, education, and application of therapeutic interventions. Interdisciplinary, team care, care planning, advocacy, and coordination across the care spectrum will be addressed. Barriers to the quality of longevity represented by attitudes, policies, and practices, related to cultural differences, including wellness and nutrition are discussed.

PTED 76201- Geriatric Physical Therapy (1)

In the laboratory component of this course, students will gain hands-on experience with the physical therapy examination, evaluation, intervention, and

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 (en-US)/wLang (en>si/wL08 (rEMC /P <</Lang (en-US)/MCID 741 >>BDC5 T* [(of aginlong)15 (eli/wL0(r

SEMESTER 8

PTED 78000- Clinical Education 4 (8)

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 E Ö ² I j Ö ‡ e ² j 7 M Ì Ú ¢ Û ² p E j , , / E M p Û E Û ² 7 j E j ‡ , , ó I j E Ö ² j 7 Ì Ú ó ó 7 j 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 and At that level for all patients for Patient Management.

PTED 78900- Doctoral Capstone Project (1)

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.