DPT Course Descriptions

PT 700 Anatomy for PT                      6
An in-depth study of gross human anatomy emphasizing a regional approach to the structural and functional relationships of skeletal, muscular, circulatory, and nervous structures comprising the head, neck, trunk, and extremities. Organic systems relevant to physical therapy practice are also examined. Anatomical structures relevant to physical therapy practice are emphasized. Human dissections are included.

PT 701 Introduction to PT                  3
This course will include an overview of the history, current practice and future directions for the profession of physical therapy. Practice sites and settings are presented and observed with consideration of traditional and emerging roles and responsibilities of the physical therapist. Students are introduced to the following topics that will continue as threads throughout the curriculum: disablement models, professional behaviors, documentation system, and process for critical evaluation of the professional literature (evidence-based practice). In order to gain a better understanding of other health care members, students will conduct interviews with a variety of healthcare professionals and present the information to class.

PT 702 Basic Patient Management in PT      3
This course is designed to instruct the student in basic patient management, evaluation and teaching techniques. The student will be introduced to patient interviewing techniques and the development of clinical observation skills. Course content focuses on patient mobility, including the utilization of assistive devices and gait training, transfers, in addition to basic emergency procedures, patient monitoring, wound care and fundamental sterile and aseptic procedures.

PT 703 Advanced Patient Management in PT    3
This course is designed to instruct the learner in advanced patient-management skills including: ICU and critical care equipment management, and wound care including sharps debridement. Laboratory exposure for demonstration and practice of all techniques is provided. 1 hour lecture and 2 hours lab per week.

PT 704 Therapeutic Exercise in PT           3
This course introduces the concepts of fitness and exercise and prepares the student to design and implement basic therapeutic exercise programs for clinical use. Expected responses to exercise (among healthy and unhealthy individuals) and training and patient responses to traditional therapeutic exercise programs are discussed, with review of evidence-based literature.

PT 705 Therapeutic Modalities in PT         4
This course prepares the student for the safe, effective and appropriate use of physical agents, electrotherapeutic modalities and mechanical modalities. The role of these modalities in examination, evaluation, diagnosis, prognosis, plan of care, intervention and outcomes measurement/evaluation is presented.

PT 706 Kinesiology and Pathokinesiology for PT 4
This course begins with the study of biomechanics as related to human movement. Normal human movement and movement dysfunction associated with selected pathologies are investigated in detail, including the study of normal and pathological gait and posture. Emphasis is placed on joint arthrokinematics and the mechanics of muscle actions. Students are exposed to tools used for the scientific study of motion analysis.

PT 707 Applied Clinical Neuroscience for PT  4
Application of neuroscience principles to understanding of clinical manifestations of neurological dysfunctions and evaluative techniques. Students will learn principles and techniques for screening, examination, evaluation, diagnosis and prognosis of nervous system dysfunction. The course will include an anatomical study of clinically relevant parts of the central and peripheral nervous systems.

PT 711 Neurological PT I                   3
This is the first in a two-course series that presents content about the neuromuscular system. Information presented will assist in the development of diagnoses, prognoses, plans of care and intervention strategies. Cases and/or other information about the clinical aspects of these conditions will be presented.
DPT Course Descriptions

PT 712 Neurological PT II  
This course investigates the examination/evaluation of individuals with neurological dysfunction from a systems perspective. Approaches for therapeutic intervention incorporate proprioceptive neuromuscular facilitation, neurodevelopmental treatment, and motor learning principles. Patient cases, lab demonstrations, videos, literature review, and field trips to local rehabilitation facilities are included in the learning experience.

PT 713 Orthopedic PT I  
This course prepares the student to practice entry-level orthopaedic physical therapy. The course includes an in-depth analysis of the evaluation and management of musculoskeletal dysfunction of patients throughout the life span. Students will develop skills in critical review of existing orthopaedic assessment and intervention practices utilizing evidence-based literature.

PT 714 Orthopedic PT II  
This course is an extension of Orthopedic I. This course will concentrate on increased expectations of critical thinking concerning orthopaedic conditions. There will be a greater emphasis on manual techniques including techniques such as Strain-Counter strain, muscle energy techniques, and neural mobilization (for assessment and treatment) with evidence-based support.

PT 721 Rehabilitation I for PT  
This course is designed to integrate background knowledge and clinical practice in the areas of orthotic management, prosthetic management, oncology rehabilitation, and vestibular rehabilitation. Lab experiences will focus on examination, intervention, planning and application, with problem-solving scenarios. Live demonstrations, videos, and equipment management are included.

PT 722 Rehabilitation II for PT  
This course is designed to integrate background knowledge and clinical practice in the areas of spinal cord injury, brain injury, and women’s health. Lab experiences will focus on intervention planning and application, with problem-solving scenarios. Live demonstrations, videos, and equipment management are included.

PT 731 Pediatric PT  
Lecture/laboratory course involving a comprehensive discussion of normal and abnormal development from prenatal period through adolescence. Pediatric assessment tools will be introduced. Developmental theories, medical and physical therapy management using the patient management model, and different practice settings will be discussed. Students will per-form and document a developmental assessment.

PT 732 Geriatric PT  
This course presents a study of the responsibilities of the physical therapist with the well elderly. Emphasis on prevention of illness, injury or disease through effective and timely intervention will be covered. A systematic approach to normal aging is also presented.

PT 741 Cardiovascular and Pulmonary PT  
An overview of the human physiological response to physical activity. Emphasis is placed on the acute and chronic adaptation of the body systems to activity by individuals in various states of health and disease throughout the life span. Principles of cardiopulmonary disease prevention, treatment, and rehabilitation are examined. Laboratory experiences are designed to illustrate these principles and develop skills necessary for their implementation.

PT 743 Psychosocial Aspects of Disability for PT  
A comprehensive look at the psychosocial components of physical disabilities. Particular emphasis will be placed on understanding the psychosocial, behavioral, emotional, cultural and cognitive influences affecting rehabilitation outcomes. Selected physical conditions will be examined. Concepts regarding life stage development; stages of adjustment; strategies for intervention; sexuality; family adjustment; and terminal illness will be examined. The impact of societal and cultural beliefs and values about the disabled will be discussed. Case presentations will supplement didactic material. Three hours lecture/week.

PT 744 Motor Control/Motor Learning for PT  
This course introduces the science of motor control/motor learning including the neuromotor processes that underlie normal and abnormal movement. Theories of motor learning and mechanisms for acquisition of skill are discussed. Neuromotor and neuropsychological research are investigated and clinical implications are discussed.
# DPT Course Descriptions

**PT 752 Pharmacology in PT**  
Pharmacology is the study of drugs and their effects on the human organism. Students learn the principles of pharmacokinetics, pharmacodynamics, dose-response relationships, administration routes, absorption and distribution, biotransformation and excretion, potential drug interactions and toxicology. The effects of drugs on patients receiving physical therapy interventions are presented.

**PT 753 Applied Pathology for PT**  
Students will develop an understanding of pathology underlying clinical disease states and involving the major organ systems. Epidemiological issues will be presented and discussed. Students will learn to recognize pathology signs and symptoms that are considered “red flags” for serious disease. Students will use problem-solving skills and information about pathology to decide when referral to another health care provider or alternative intervention is indicated. Students will be expected to develop the ability to disseminate pertinent information and findings, and ascertain the appropriate steps to follow.

**PT 754 Diagnosis in PT**  
Students learn to engage in the diagnostic process in an efficient manner, consistent with the policies and procedures of the practice setting and to establish differential diagnoses for patients across the lifespan based on evaluation of results of examinations and medical and psychosocial information. Students learn how to effectively communicate or discuss diagnoses or clinical impressions with other practitioners. The use of diagnostic tools in the diagnostic process, including imaging and laboratory studies, will be presented.

**PT 755 Principles of Teaching & Learning in PT**  
This course presents teaching and learning theories and styles, and the role of the PT as a teacher. This course includes teaching in the clinical setting, health promotion and compliance, cultural assessment for learning, formulating goals and objectives with patient and family input, assessment of the patient’s ability to learn, designing patient education programs, evaluating patient outcomes from the education process, community education and teaching psychomotor skills; all across the lifespan. Emphasis on writing goals and objectives as well as preparing and presenting a research paper.

**PT 756 Professional Practice Issues for PT**  
A discussion-centered course that includes student-selected contemporary issues in health care delivery. Importance of responsibility to the patient and profession are emphasized. Students participate in a Mock House of Delegates and prepare a motion for class discussion that will relate to current issues in the profession or healthcare.

**PT 757 Organization and Management in PT**  
Introduction to the management process including inter- and intra-departmental relationships, marketing, accounting, leadership styles, QA, job descriptions, performance appraisal, budgeting, coding, liability and various documentation methods. Emphasis on writing a job description and performance appraisal for a PT, PTA and aide.

**PT 761 Advanced Clinical Skills**  
This course is comprised of several one-credit modules, each with a specific clinical focus.

**PT 771 Scientific Inquiry I in PT**  
Introduction to the principles of clinical research. The scientific method and various research designs are presented. Students learn to do literature reviews and critical reviews of current research. The history and function of review boards for the protection of human and animal subjects is covered. All research proposed and conducted in the physical therapy department is subject to the rules, regulations and approval of the appropriate board. Students develop and submit a written research proposal in Research I.

**PT 772 Scientific Inquiry II in PT**  
Students continue refining the projects submitted in Scientific Inquiry I and obtain approval from the appropriate review board as needed. The research proposal is implemented with the collection and analysis of data. A manuscript is written in AMA format and considered for publication.

**PT 773 Scientific Inquiry III in PT**  
Students complete the data collection and analysis for the project proposed in Scientific Inquiry I. The results of the study are written in AMA journal format and submitted for consideration to an appropriate publication. The results are also presented in accordance with APTA guidelines and at the annual Physical Therapy Research Day.
DPT Course Descriptions

PT 781 PT Grand Rounds I
Introductory course is designed to prepare first year students for their roles and responsibilities during future Grand Round’s experiences. Students work collaboratively to assist in selected components of literature reviews, assist in preparation of second year presentations, and engage in active discussions regarding all case presentations.

PT 782 PT Grand Rounds II
Second year students will present their Grand Rounds Case for critique and suggestions from GR I and III students and faculty in preparation of their final presentation the following year during the Grand Round III course. In addition, the students will assist and provide feedback to GR III students.

PT 783 PT Grand Rounds III
Students will present their Grand Rounds Case. Presentations will include relevant foundational and clinical science information, and the details of screening, examination, evaluation, diagnosis, prognosis, plan of care, intervention and outcomes for the patient. Students will present age-related and lifespan issues and educational issues related to the case, citing professional literature.

PT 791 PT Clinical Education Seminar
Thorough orientation to the internship component of the curriculum. Focuses on expectations, objectives, goals and responsibilities. Additionally, an emphasis will be placed on gaining familiarity with the medical record, conducting patient interviews, developing active listening skills and acquiring beginner level competency in professional documentation. Graded S/U.

PT 792 PT Internship I
An eight-week, full-time internship requiring the application of didactic knowledge into the patient care environment. This experience will begin the process of professional socialization, cultivation of interpersonal skills, clinical decision making, self-assessment, proactive learning, and development of personal values and attitudes related to ethical, legal and moral practice. Graded S/U.

PT 793 PT Clinical Education Seminar II
Second clinical seminar focuses on establishing goals, objectives, expectations and responsibilities of Internship II. Topics include analysis of individual learning and personality styles, assertiveness training and awareness of the cognitive influences on behavior. Case presentations are used to promote development of clinical problem solving skills. One hour lecture/week. Graded S/U.

PT 794 PT Internship II
Second internship in another clinical practice setting, requires the integration of didactic knowledge and problem-solving strategies into patient care. Experience advances the skills introduced in PT Internship I. Students develop skill and efficiency in examination, evaluation, goal setting, program planning and intervention implementation. Graded S/U.

PT 795 PT Clinical Education Seminar III
Final seminar focuses on establishing goals, objectives, expectations and responsibilities of final “specialty” internships. Information will be provided preparing students for state licensure and examination. Guidance will be given regarding generating professional resume and cover letter. Interviewing techniques discussed and practiced. Information regarding employment benefits, job selection examined. Graded S/U.

PT 796 PT Internship III & IV
Final internships provide advanced opportunities for integration, application and synthesis of professional competencies. Experiences lead to determination of entry-level competence. Internship III must be successfully completed before participating in Internship IV; both must be completed successfully prior to graduation from the program. Graded S/U.

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