

Physical Therapy

Doctor of Physical Therapy (<http://und-public.courseleaf.com/graduateacademicinformation/departments/courses/programs/physicaltherapy/pt-dpt>)

PT 101. Orientation Physical Therapy. 1 Credit.

Overview of the educational requirements, practice issues, and opportunities in the profession of physical therapy. Course content includes multimedia presentations, lectures, and observation in clinical settings.

PT 402. Professional Communication and Behavior. 2 Credits.

Lecture and practice in interprofessional and interpersonal communication including professional behavior, ethics, patient education, and written documentation. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 409. Clinical Pathology I. 3 Credits.

Selected pathological conditions affecting the musculoskeletal system. Associated orthopedic diagnoses, surgical interventions, the influences of co-morbidities and pharmaceutical interventions, and safety concerns are discussed with an application to physical therapy patient/client management during orthopedic rehabilitation. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 410. Clinical Pathology II. 3 Credits.

Selected pathological conditions of body systems, associated surgical interventions, the influence of co-morbidities, pharmaceutical interventions, and safety concerns are discussed with application to physical therapy patient/client management. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. SS.

PT 412. Biomechanics and Kinesiology. 4 Credits.

Biomechanics and kinesiology of musculature acting on the extremities and trunk. Clinical applications and evaluation of joint integrity and mobility, gait, range of motion and muscle performance. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 413. Exercise in Health and Disease. 3 Credits.

Basic foundation for theoretical and practical application of exercise science principles for physical therapists. Exercise science principles are applied to healthy individuals and individuals with disease, impairments, and/or functional limitations. Examination and intervention procedures incorporate aerobic capacity/endurance, anthropometric characteristics, and muscle performance activities. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 415. Motor Control. 3 Credits.

Lecture and laboratory work in therapeutic exercise to establish and maintain muscular control and coordination, including muscle re-education, facilitation, and relaxation. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 417. Clinical Examination and Evaluation I. 4 Credits.

Emphasizes patient/client management elements of examination and evaluation. Emphasis is given to the musculoskeletal and neurological systems. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 420. Musculoskeletal System Examination. 2 Credits.

Principles of musculoskeletal examination and evaluation including identification and palpation of surface anatomy, range of motion (ROM), measurement of joint ROM, and evaluation of muscle performance. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. F.

PT 422. Anatomy for Physical Therapy. 5 Credits.

Detailed lectures and demonstrations on musculoskeletal anatomy and neuroanatomy. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 423. Neuroscience for Physical Therapy. 4 Credits.

Structure and function of the human nervous system including pathophysiology and clinical applications relevant to physical therapy practice. Prerequisite: Registered in Professional Physical Therapy Curriculum. F.

PT 426. Manual Therapy I. 2 Credits.

Introduction to joint mobilization/manipulation techniques. Emphasis is on mobilization/manipulation as it relates to peripheral joints and soft tissues of the human body. Basic examination, evaluation, and intervention techniques for the spine are also presented. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 435. Introduction to Patient/Client Care and Interventions. 4 Credits.

Basic physical therapy patient care skills addressing multiple areas of physical therapy practice. A sample of topics address injury to the integument, select interventions for all patients, positioning of patients, vital signs, aseptic technique, and basic wheelchair techniques. Laboratory. Prerequisite: Registered in professional physical therapy curriculum. F.

PT 490. Special Topics:Physical Therapy. 1-4 Credits.

Introduction and investigation of advanced clinical procedures and topics. Topics discussed will be dictated by student and faculty interests. Prerequisite: Registered in Professional Physical Therapy Curriculum. Repeatable to 4 credits.

PT 491. Independent Study. 1-4 Credits.

Research and independent study in a specialized area of Physical Therapy. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 510. Integrated Clinical Experience. 1 Credit.

Short-term clinical experience to provide hands-on experience for students to apply knowledge learned during the first year of the professional program. Experiences will be set up in acute care, sub-acute care, long-term care, outpatient orthopedic, or a rural site. Prerequisite: Registered in Professional Physical Therapy Curriculum. Repeatable to 3 credits. F,S,SS.

PT 511. Applied Movement Science and Rehabilitation Procedures. 4 Credits.

Integration of clinical evaluation, functional goals, and treatment planning for individuals with neurological and multiple musculoskeletal dysfunction. The primary focus is on rehabilitation skills including assessment, exercise, handling techniques, functional activities, equipment prescription, patient education, and ADLs, as well as community mobility and governmental services. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 512. Therapeutic Agents. 3 Credits.

Theory and application of various hydrotherapy, phototherapy, and thermotherapy modalities in Physical Therapy, including heat, light, sound, and water. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 514. Case Management I. 2 Credits.

Integrates multiple aspects of case management, including examination, evaluation, diagnosis, prognosis, plan(s) of care, and intervention strategies. Evidence based clinical decision making and verbal and written communications relative to case management will be emphasized. Prerequisite: Registered in Professional Physical Therapy Curriculum. SS.

PT 519. Electrotherapy and Electrodiagnosis. 2 Credits.

Theory and application of therapeutic electrical currents, biofeedback, electromyography, and nerve conduction velocity in physical therapy. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 521. Critical Inquiry I. 1 Credit.

Introduction to the collection of clinical data leading to a case study report. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 522. Administration in Physical Therapy. 3 Credits.

Lectures/discussion and seminar formats used to explore concepts of administration procedures as applied to Physical Therapy and the health care delivery system. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 523. Lifespan I. 3 Credits.

Content related to human development; age-appropriate patient/client management; family-centered care; health promotion and safety; and legislative, policy, and systems are applied to pediatric patient/client management. Evidence-based practice for specific, common pediatric conditions is emphasized in the application of core content concepts. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 524. Psychological Aspects of Disability. 2 Credits.

Readings and discussion course. Study of psychological coping mechanisms, reactions, and motivational factors pertinent to people with disabilities. Review of adjustment problems unique to specific disabilities and/or disease processes, including terminal illness. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 525. Clinical Examination and Evaluation II. 3 Credits.

Emphasis is given to physical therapy examination, evaluation, and diagnoses as related to an advanced dynamic biomechanical evaluation. Also included will be the integration of NMS and support systems; clinical reasoning resulting in referral and/or modified physical therapy interventions; and the communication of findings and recommendations. Lecture Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. F,S.

PT 526. Manual Therapy II. 2 Credits.

Theory and application of manual therapy skills for examination and intervention techniques, including thrust and nonthrust mobilizations/manipulations of the spine, pelvis, and associated areas. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum. F.

PT 527. Critical Inquiry II. 2 Credits.

Application, analysis, and evaluation of clinical decision-making components, strategies, and skills. Preparation and presentation of a clinical case study. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 528. Clinical Education I. 9 Credits.

The first in a sequence of four full-time clinical experiences in selected physical therapy provider centers throughout the United States. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 529. Clinical Education II. 9 Credits.

The second in a sequence of four full-time clinical experiences in selected physical therapy provider centers throughout the United States. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 535. Lifespan II. 2 Credits.

Examine the factors and forces that affect life quality in later years. The physiological, psychological, and sociological aspects of aging will be considered, including those influences in the cultural context that enhance and impede continued growth of the person. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 537. Strategies Early Intervention. 2 Credits.

This course is designed to review current practices in early intervention. Course materials will focus on characteristics of disabling conditions that influence growth and development of motor skills, cognition, and educational development. Emphasis will be on collaborative service provision with an interdisciplinary approach. Topics also covered include: current issues, assessment of the child/family unit, and legislative guidelines for service provision. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 538. Advanced Topics in Pediatric Physical Therapy. 3 Credits.

This course is designed to present current and advanced topics relating to pediatric physical therapy clients and their families. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 539. Prevention and Wellness. 2 Credits.

The theory and practice of prevention of injury, maintenance and improvement of wellness, and promotion of health and healthy behaviors across the lifespan. Concepts are applied to the general, athletic, and industrial populations, with a view to interprofessional involvement in wellness optimization. Prerequisite: Registered in Professional Physical Therapy Curriculum. F.

PT 540. Cardiopulmonary Physical Therapy. 2 Credits.

This course is designed to expand the theoretical understanding and clinical application of cardiopulmonary physical therapy examination, evaluation, diagnosis, prognosis, intervention and outcomes. Laboratory. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 541. Clinical Examination and Evaluation III. 3 Credits.

Emphasizes patient/client management elements of examination and evaluation. Emphasis is given to systems screening, physical therapy diagnoses, and clinical reasoning resulting in referral and/or modified physical therapy interventions. Emphasis is also given to the communication of findings. Laboratory. F.

PT 544. Pharmacology for Physical Therapists. 1 Credit.

Pharmacological principles and implications for the clinical treatment of patients referred to physical therapy. Fundamentals of drug classification, actions of drugs, physiological mechanisms, and drug therapeutic and adverse effects. Prerequisite: Registered in Professional Physical Therapy Curriculum. SS.

PT 545. Medical Imaging for Physical Therapists. 2 Credits.

An introduction to medical imaging and an overview of its role in the health care delivery system. Topics include principles of medical imaging, imaging equipment, diagnostic imaging, and application of imaging principles to inform physical therapy care. Prerequisite: Registered in Professional Physical Therapy Curriculum. SS.

PT 549. Advanced Applied Anatomy/Clinical Kinesiology. 2 Credits.

Study of applied anatomy and its importance to research and clinical application, particularly as related to Physical Therapy. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 550. Interprofessional Health Care. 1 Credit.

A process-learning course intended to provide experience in building a team of health professionals from different professions. The focus is on learning to work effectively with an interprofessional health care team. Emphasis is placed on effective teamwork, the unique contributions of different professions, patient or family centered approach in health care delivery, effective communication, and awareness of potential medical errors. Prerequisite: Registered in Professional Physical Therapy Curriculum. F,S.

PT 552. Clinical Education III. 9 Credits.

The third in a sequence of four full-time clinical experiences in selected physical therapy provider centers throughout the United States. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 553. Clinical Education IV. 9 Credits.

The fourth in a sequence of four full-time clinical experiences in selected physical therapy provider centers throughout the United States. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 561. Seminar:Physical Therapy. 1-4 Credits.

This course serves to focus student attention toward graduate study in Physical Therapy. Explore and discuss areas of interest for students and faculty. May repeat to 4 credits maximum. Prerequisite: Registered in Professional Physical Therapy Curriculum. Repeatable to 4 credits.

PT 562. Readings:Physical Therapy. 1-4 Credits.

Review of current literature pertinent to Physical Therapy; critical examination of design, content, and validity of conclusions. Prerequisite: Registered in Professional Physical Therapy Curriculum. Repeatable to 4 credits.

PT 572. Teaching Experience in Physical Therapy. 1-4 Credits.

Supervised experience in University teaching in Physical Therapy. Projects in curriculum development, formulation of teaching/learning objectives, teaching materials, evaluation tools, and experience in competency-based learning environment. Prerequisite: Registered in Professional Physical Therapy Curriculum. Repeatable to 4 credits.

PT 583. Critical Inquiry III. 1 Credit.

Introduction to research instruments including surveys, electrical and mechanical instrumentation critical to research methods. Includes discussion of validation, calibration, and reliability of instruments used in physical therapy research. Students develop a proposal for their scholarly projects and complete IRB use of human subject forms. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 584. Evidence in Practice. 2 Credits.

Application of qualitative and quantitative research designs. Interpretation of statistical tests used in evidence-based medicine. Critical review of current articles related to diagnosis, prognosis, therapy, harm, cost, systematic reviews, meta-analysis, and clinical practice guidelines. Application of evidence to physical therapy practice. Prerequisite: Registered in Professional Physical Therapy Curriculum. S.

PT 590. Directed Studies:Clinical Concepts in Physical Therapy. 1-12 Credits.

Individualized study of a particular area of interest for the student approved by his/her major advisor and supervised by preceptors with specialty and/or recognized expertise in the area of interest. Study may include library research, clinical research, discussion/seminars, projects, and directed clinical experience. Prerequisite: Registered in Professional Physical Therapy Curriculum. Repeatable to 12 credits.

PT 591. Research in Physical Therapy. 2 Credits.

Students develop the ability to effectively and accurately interpret and communicate results/clinical outcomes as a component of the written Scholarly Project. Frequent group and/or individual meetings with the advisor incorporate peer review discussion to facilitate student development of professional written and oral communication skills. Prerequisite: Registered in Professional Physical Therapy Curriculum. SS.

PT 592. Case Management II. 2 Credits.

Case management, with emphasis on the teaching and learning process and techniques targeted to promote and optimize physical therapy services, including advocacy. Strategies appropriate for conflict resolution are introduced. Professional development as a practitioner of physical therapy is emphasized through introduction and preliminary development of a portfolio. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 995. Scholarly Project. 1 Credit.

Students provide a final written and oral report to the faculty on the results of their collaborative Scholarly Project. Prerequisite: Registered in Professional Physical Therapy Curriculum.

PT 996. Continuing Enrollment. 1-12 Credits.

Repeatable. S/U grading.

PT 997. Research III:Independent Study. 2 Credits.