

PHYSICAL THERAPY (P T)

P T 296 - Independent Study. 1-2 Credits.

P T 503 - PT and Health Care System. 4 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. An introduction to physical therapy and its relationship to the health care system. Topics include introduction to PT as a profession, medical terminology, medical records, teaching and learning, ethics, laws and professional issues in physical therapy. Level: Graduate

P T 510 - Applied Clinical Anatomy. 5 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Anatomy of the neuromusculoskeletal system and body cavities in relation to movement and function with clinical correlates. Course lab fee. Level: Graduate

P T 516 - Movement System Exam & Eval. 5 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Principles of musculoskeletal examination and evaluation including posture, neurologic screen, palpation, measurement of ROM and muscle performance, assessment of muscle length, and joint play. Level: Graduate

P T 519 - Musculoskeletal Management I. 4 Credits.

Offered spring. Enrolled in entry-level DPT program or permission of instructor. Principles of musculoskeletal examination, evaluation, and intervention. The focus is application of anatomic and biomechanical principles when examining posture and movement, identification of abnormal movement patterns, and analysis of underlying neuromuscular impairments. Level: Graduate

P T 520 - Development Through the Life Span. 2 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program or permission of instructor. Presentation of changes in adults they progress through the lifespan. Includes the functional changes associated with aging, assessing and managing fall risk, performance and interpretation of functional outcome measures. Level: Graduate

P T 523 - Clinical Medicine I: Intro to Med. 1 Credit.

Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Introduction to medical screening within the patient/client management model. Level: Graduate

P T 524 - Clinical Medicine II. 1 Credit.

Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Introduction to pharmacology, medical management of selected orthopedic and hematological conditions. Level: Graduate

P T 525 - Clinical Medicine III. 3 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Pathophysiology, medical and pharmacological management of hepatic, oncological, immunological diseases and organ transplantation. Level: Graduate

P T 526 - Foundational Skills & Intervention. 2 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Basic skills of transfers, bed mobility, gait assistive device use, and soft tissue mobilization. Level: Graduate

P T 527 - Physical & Electrophysical Agents. 3 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Physiology, indications, contraindications, and application of electrotherapy and physical agents. Theory and application of electrodiagnostic and electrotherapeutic procedures. Level: Graduate

P T 529 - Clinical Biomechanics. 4 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Principles of biomechanics and application to physical therapy. Level: Graduate

P T 530 - PhysClinical Applied Exercise Physiology. 4 Credits.

Offered spring. Enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Principles and applications of the physiological adaptations to acute and chronic exercise stresses, exercise assessment/testing, prescription and progression of the exercise program, and the adaptations of exercise interventions in the clinical environment. Basic principles and application of Proprioceptive Neuromuscular Facilitation (PNF). Level: Graduate

P T 531 - Prosthetics. 2 Credits.

Offered spring. Prereq. enrolled in entry-level DPT courses or consent of instructor. Information pertinent to pathology, examination, and evaluation of patients with amputations and conditions requiring prosthetics. The basic components of the course include types of devices, fitting, exercise programs, gait analysis and gait training. An overview of upper extremity prosthetics will be provided.

P T 532 - Foundational Skills II. 1 Credit.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Principles of soft tissue mobilization. Techniques covered include: superficial, petrissage, kneading, neuromuscular, friction massage and trigger point techniques. Instruction regarding indications, precautions, contraindications, draping, position, and primacy issues included. Level: Graduate

P T 536 - Neurosciences. 5 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Anatomy of the head and neck, and neuroanatomy of the human nervous system with emphasis on evaluation of central nervous system lesions and pathological conditions, clinical applications to physical therapy. Level: Graduate

P T 560 - Clinical Reasoning I. 1 Credit.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Introduction to the clinical reasoning process in physical therapy, faculty research and scholarship options, and laboratory orientation. Level: Graduate

P T 563 - Cardiopulmonary PT. 3 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Cardiovascular and pulmonary pathology, pharmacology, and differential diagnosis. Physical therapy assessment and interventions for patients with cardiovascular and/or pulmonary disease. Level: Graduate

P T 565 - Pediatric Physical Therapy. 2 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Normal development throughout childhood. Physical therapy examination, evaluation and intervention of children with neuromotor and musculoskeletal dysfunction including physical therapy for children in school systems. Level: Graduate

P T 567 - Neurorehabilitation I. 3 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Neurologic physical therapy assessment and intervention of adults. Principles of neuroplasticity, motor control, motor learning and application to physical therapy neurorehabilitation. Includes wheelchair seating and mobility assessment and prescription. Level: Graduate

P T 568 - Neurorehab II. 3 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Neurologic physical therapy assessment and intervention of adults. Principles of neuroplasticity, motor control, motor learning and application to physical therapy neurorehabilitation. Includes assessment and treatment of vestibular system and conditions. Level: Graduate

P T 569 - Musculoskeletal Management II. 6 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Principles of musculoskeletal examination, evaluation, and intervention for the hip, knee, ankle, foot, lumbar spine, obstetrics and pelvic floor. Level: Graduate

P T 570 - Psych of Illness & Disability. 2 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous courses or consent of instructor. Psychosocial response to illness and disability to include patient motivation and patient/professional interaction for persons with disability throughout the lifespan. Level: Graduate

P T 572 - Practice & Administration. 3 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Practice management and operations explored with emphasis on strategic planning, human resource management, regulatory compliance/risk management, quality improvement and clinical coding and billing instruction. Level: Graduate

P T 573 - Musculoskeletal Management III. 6 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Principles of musculoskeletal examination, evaluation, and intervention for the shoulder, elbow, wrist, hand, temporomandibular joint (TMJ), thoracic and cervical spine. Level: Graduate

P T 576 - Clinical Reasoning II. 2 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. This course will build on the foundations established in Clinical Reasoning I. Issues related to clinical and research ethics will be discussed. The principles of evidence based practice (EBP), including the application of evidence and the creation of evidence, will be part of the discussion. Limitations of EBP and its role in the changing health care environment, critical appraisal of the literature, statistical knowledge, and weighing evidence for clinical decision making will be presented. A writing assignment, application of debate/persuasive argument techniques, and collaborative group exercise will be a part of this course. Level: Graduate

P T 582 - Clinical Clerkship. 1 Credit.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. A mix of classroom and clinical experiences to introduce students to the expectations of professional practice. CR/NCR grading. Level: Graduate

P T 583 - Integrated Clinical Experience I. 2 Credits.

Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. An integrated, part-time clinical experience with emphasis on patient evaluation, treatment and professional development. Only CR/NCR grading. Level: Graduate

P T 584 - Integrated Clinical Experience II. 2 Credits.

Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. An integrated, part-time clinical experience with emphasis on patient evaluation, treatment and professional development. CR/NCR grading. Level: Graduate

P T 587 - Full-Time Clinical Experience I. 6 Credits.

Offered summer. Prereq., successful completion of all first-year DPT courses and PT 582. Seven weeks of full-time clinical experience with emphasis on developing patient evaluation and treatment skills. Only CR/NCR grading.

P T 589 - Full-Time Clinical Experience II. 6 Credits.

Offered summer. Prereq., successful completion of all prior clinical experiences, and previous DPT coursework. Eight weeks of full-time clinical experience with emphasis on learning about administrative issues, problem solving, time management, and communication skills. Continuation of development of patient treatment and evaluation skills. Only CR/NCR grading.

P T 626 - Clinical Medicine IV. 2 Credits.

Offered autumn. Prereqs., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Course will focus on the role of the physical therapist in a Direct Access environment. Pathology, differential screening, pharmacotherapeutics, evaluation and management of gastrointestinal, endocrine/metabolic and hepatobiliary disease. Level: Graduate

P T 627 - Prevention & Wellness Education. 3 Credits.

Offered autumn. Prereqs., enrolled in entry-level DPT program and completion of all previous DPT courses or consent of instructor. Nutrition, health promotion, patient and support network education, exercise/fitness, disease and injury prevention, life span emphasis and adaptive sports. Level: Graduate

P T 628 - PT Student Clinic. 1 Credit.

Offered autumn and spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Open to 2nd and 3rd year DPT students. Supervised service learning experience for students providing physical therapy rehabilitation and wellness activities to individuals without health insurance. Level: Graduate

P T 629 - Clinical Medicine V. 2 Credits.

Offered autumn. Prereqs., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Course will focus on evaluation, differential screening, pharmacology, and management of integumentary disorders. Includes wound assessment and treatment. Level: Graduate

P T 631 - Health Science Education Foundations I: Educational Theory and Methods. 3 Credits.

Offered autumn, spring. First in the four course series for the HSEL Certificate. This course highlights the history of health sciences professional education, exploring in particular the evolution of teaching/learning methodologies used in the health sciences to best engage student learners. Graduate: Level

P T 632 - Health Science Education Foundations II: Instructional Design. 3 Credits.

Offered autumn, spring. Prereq., P T 631. This course examines health science curriculum design, including discussion of development of mission, vision, philosophy and outcomes. Level: Graduate

P T 633 - Health Science Education Foundations III: Evaluation & Outcome Assessment. 3 Credits.

Offered autumn, spring. Online. Prereq., P T 631 and P T 632. This course examines the education evaluation process at several levels including student performance, and satisfaction, course/student/graduate outcomes, curriculum assessment and program outcomes. Level: Graduate

P T 634 - Health Science Education Foundations IV: Leadership Essentials to Transform Education. 3 Credits.

Offered autumn, spring. Online. Prereq., P T 631, P T 632 and P T 633. This course fosters leadership development within the contemporary academic and clinical education environments, explores the unique characteristics of higher education and guides participants to become transformational leaders skilled to reframe health science education, guide educational practices and promote educational excellence. Level: Graduate

P T 641 - Introduction to Lifestyle Intervention Health. 2 Credits.

Offered autumn, spring. Prereq., must be enrolled in LIH certificate program. Introduces students to Lifestyle Intervention Health [LIH] programs and builds the context for physical-therapist led lifestyle intervention teams to include, exploring the public health context for LIH teams, identifying target patient populations, and presenting the core competencies required to participate in and lead LIH teams. Level: Graduate

P T 642 - Defining Framework for Measuring, Planning and Delivering Health-Focused Lifestyle Interventions. 2 Credits.

Offered autumn, spring. Prereq., must be Enrolled in LIH certificate program and PT 641 required. Introduces students to health belief and behavior models as well as a structured methodology for assessment of health status for individuals and at a community level. Level: Graduate

P T 643 - Principles of Interpersonal and Organizational Health Coaching. 2 Credits.

Offered autumn, spring. Prereq., must be enrolled in LIH certificate program and PT 641 and PT 642 required. Introduction to health coaching principles, motivational interviewing, and the influence of health belief and behavior models on developing individual and community level action plans. Level: Graduate

P T 644 - Competencies for LIH Teams. 2 Credits.

Offered autumn, spring. Prereq., must be enrolled in LIH certificate and PT 641, PT 642, and PT 643 required. Provides students with an overview of the knowledge, skills, and abilities in four specific content areas that are important for ensuring success of physical therapist led LIH teams. Level: Graduate

P T 645 - Developing a Lifestyle Intervention Health Business Plan. 2 Credits.

Offered autumn, spring. Prereq., must be enrolled in LIH certificate program and PT 641, PT 642, PT 643, and PT 644 required. Guides students through a structured process to develop an achievable strategic plan for a physical therapist-led LIH program or business. Level: Graduate

P T 649 - Lifestyle Intervention Health Capstone Experience. 2 Credits.

Offered spring, autumn. Prereq., must be enrolled in LIH certificate program and PT 641, PT 642, PT 643, PT 644, and PT 645 required. Provides students with an onsite capstone experience that is designed to provide students the opportunity to interact with faculty in a variety of classes, discussions and presentations. Students will also present their business plans to and receive feedback from faculty with significant LIH business experience. Level: Graduate

P T 650 - Screening for Medical Disorder. 2 Credits.

Offered autumn, spring. Prereq. Enrolled in t-DPT curriculum. PT's role, responsibilities, and decision-making processes regarding appropriate referral of a patient to a physician for evaluation of medical conditions outside the scope of physical therapy. Level: Graduate

P T 651 - Medical Imaging in Rehabilitation. 2 Credits.

Offered autumn, summer. Prereq. Enrolled in t-DPT curriculum. Provide the physical therapy clinical learner with the tools needed to interpret and apply specialized medical imaging information to the rehabilitation patient. Level: Graduate

P T 652 - Pharmacology in Rehabilitation. 2 Credits.

Offered autumn, spring. Prereq., in a PT curriculum. Provide clinical learners with the primary drug classes and the physiologic basis of their action. Level: Graduate

P T 653 - Legal and Ethical Issues. 1 Credit.

Offered spring, summer. Prereq. Enrolled in a PT curriculum. Foundational information as to the legal, ethical and administrative decision making process often facing physical therapists in clinical practice. Level: Graduate

P T 654 - Clinical Decision Making. 1 Credit.

Offered autumn, spring. Prereq. Enrolled in a PT curriculum. Provide ways to utilize the Guide to PT Practice for effective and efficient clinical decision making. Level: Graduate

P T 655 - Business and Marketing. 2 Credits.

Offered spring, summer. Prereq. Enrolled in a PT curriculum. Enhance the PT clinical learner's appreciation of business and management practices needed to succeed within the current healthcare landscape. Level: Graduate

P T 656 - Coding and Reimbursement. 1 Credit.

Offered autumn, summer. Prereq. Enrolled in a PT curriculum. Educate the clinical learner in analyzing reimbursement of current billing, accounts receivable, collection procedures and use of proper coding. Level: Graduate

P T 657 - Professionalism. 2 Credits.

Prereq. Enrolled in a PT curriculum. This seminar course provides the clinical learner with the opportunity to analyze and discuss the roles/responsibilities and challenges/opportunities inherent in doctoral level physical therapy practice. Only CR/NCR grading. Level: Graduate

P T 658 - Critical Assessment. 3 Credits.

Offered autumn, spring. Prereq. Enrolled in t-DPT curriculum. Develop skills in the application of evidence-based practice as a model for effective clinical decision-making. Level: Graduate

P T 659 - Capstone Project. 4 Credits.

Prereq. Enrolled in t-DPT curriculum. Development of the skills needed by physical therapists to fulfill their role as effective participants in the research process. Guide student through the capstone case report completion process. Only CR/NCR grading. Level: Graduate

P T 660 - Management of Musculoskeletal Disorders. 2 Credits.

Offered autumn, spring, summer. Prereq., enrolled in t-DPT curriculum. PT's role, responsibilities, and decision-making processes regarding patients with musculoskeletal disorders. Level: Graduate

P T 661 - Management of Cardiovascular or Pulmonary Disorders. 2 Credits.

Offered autumn, spring and summer. prereq., Enrolled in t-DPT curriculum. PT's role, responsibilities and decision-making processes regarding appropriate patient management of persons with cardiovascular and/or pulmonary disorders. Level: Graduate

P T 662 - Management of Neuro Disorders. 2 Credits.

Offered autumn, spring, summer. Prereq., enrolled in t-DPT curriculum. PT's role, responsibilities, and decision-making processes regarding patients with neurological disorders. Level: Graduate

P T 663 - Management of Integumentary Disorders. 2 Credits.

Offered autumn, spring, summer. Prereq., Enrolled in t-DPT curriculum. PT's role, responsibilities, and decision-making processes regarding patients with integumentary disorders. Level: Graduate

P T 664 - Wellness and Health Promotion. 2 Credits.

Offered autumn, spring, summer. Prereq., Enrolled in t-DPT curriculum. PT's role, responsibilities, and decision-making processes regarding patient/client involvement with wellness and health promotion. Level: Graduate

P T 672 - Research in PT II. 2 Credits.

Offered autumn. Data analysis, writing of research manuscript, presentation of project. Level: Graduate

P T 676 - Clinical Reasoning III. 3 Credits.

Offered autumn. Prereqs., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Course addresses elements of clinical mastery, professional development, career options, ethics and patient advocacy. Each student develops and presents a case report and provides peer review and feedback. Level: Graduate

P T 679 - Trends & Scholarly Act.. 1-6 Credits.

(R-6) Offered autumn and spring. Prereqs., Enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Students are required to complete at least 6 credits during their 2nd and 3rd years. Seminar sections that focus on advanced clinical topics in physical therapy and/or engagement in research with an individual faculty advisor. Traditional or CR/NCR grading as determined by instructor. Level: Graduate

P T 680 - Clinical Internship. 11 Credits.

Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Final summative experience is a 15 week clinical internship. Includes writing and presentation of case study or special project. CR/NCR grading. Level: Graduate

P T 690 - Research. 1-10 Credits.

(R-10) Prereq., consent of instr. Traditional or CR/NCR grading as determined by instructor. Level: Graduate

P T 691 - Special Topics. 1-6 Credits.

(R-6) Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics. Traditional or CR/NCR grading as determined by instructor. Level: Graduate

P T 692 - Independent Study. 1-4 Credits.

(R-6) Prereq., consent of instructor. Traditional or CR/NCR grading as determined by instructor. Level: Graduate

P T 694 - Seminar/Workshop. 1-6 Credits.

(R-6) Traditional or CR/NCR grading as determined by course instructor. Level: Graduate

P T 699 - Thesis/Dissertation. 1-10 Credits.

(R-10) Offered every term. Only CR/NCR grading. Preparation of a thesis or manuscript based on research for presentation and/or publication. Level: Graduate