PHYSICAL THERAPY (P T)

P T 503 - PT and Health Care System. 2 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, 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, palpation, measurement of ROM and muscle performance, assessment of muscle length, and joint play. Level: Graduate

P T 519 - Musculoskeletal Management I. 3 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program or permission of instructor. Principles of musculoskeletal examination, evaluation, and intervention. The focus is application of clinical reasoning principles when examining movement patterns and analysis of underlying musculoskeletal impairments. Level: Graduate

P T 520 - Geriatric PT. 2 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program or permission of instructor. Presentation of changes in adults as 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. 1 Credit.
Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Introduction to medical screening and the PT exam within the Patient/Client Management model. Level: Graduate

P T 524 - Clinical Medicine II. 2 Credits.
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. 2 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Pathophysiology, medical and pharmacological management of oncological, immunological diseases and organ transplantation. Level: Graduate

P T 526 - Foundational Skills & Intervention. 3 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Basic skills of documentation, medical terminology, transfers, bed mobility, and gait assistive device use. Level: Graduate

P T 527 - Physical & Electrophysical Agents. 3 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program 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. 5 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. The principles of biomechanics as applied to the practice of physical therapy. Level: Graduate

P T 530 - Clinically Applied Exercise Physiology. 5 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program or permission of instructor. Principles and applications of the physiological adaptations to acute and chronic exercise stresses and adaptations in the clinical environment. Exercise assessment/testing, prescription and progression of the exercise program is discussed. Level: Graduate

P T 531 - Prosthetics. 1 Credit.
Offered spring. Prereq., enrolled in entry-level DPT program or permission 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 primary issues included. Level: Graduate

P T 532 - Foundational Skills II. 1 Credit.
Offered spring. Prereq., enrolled in entry-level DPT program 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 primary issues included. Level: Graduate

P T 533 - Musculoskeletal Management II. 2 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Examination, evaluation, and intervention of musculoskeletal disorders of the lumbar spine and pelvis including sacroiliac dysfunction, genitourinary issues, obstetrics, incontinence, and pelvic pain. Level: Graduate

P T 536 - Neurosciences. 5 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program 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 or consent of instructor. Introduction to the clinical reasoning process in physical therapy. Level: Graduate

P T 563 - Cardiopulmonary PT. 3 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or consent of instructor. Physical therapy assessment and interventions for patients with cardiovascular and/or pulmonary disease. Includes cardiovascular and pulmonary pathology, pharmacology, and differential diagnosis. Level: Graduate

P T 565 - Pediatric Physical Therapy. 2 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program 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. 4 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program 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 - Neurorehabilitation II. 3 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program 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 Mgt III. 4 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or consent of instructor. Principles of musculoskeletal examination, evaluation, and intervention for the hip, knee, ankle, and foot. Level: Graduate

P T 570 - Psychosocial Aspects of Health and Wellness. 2 Credits.
Offered autumn. Prereq., enrolled in entry-level DPT program or consent of instructor. Psychosocial aspects of health and wellness including social/societal determinants for people from diverse backgrounds throughout the lifespan. Level: Graduate

P T 572 - Practice & Administration. 4 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program or consent of instructor. Practice management and operations. Includes strategic planning, human resource management, regulatory compliance/risk management, quality improvement, clinical coding, billing instruction, and career development. Level: Graduate

P T 573 - Musculoskeletal Management IV. 6 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program 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 or consent of instructor. This course will build on the foundations established in Clinical Reasoning I and utilize reflections from the first summer Clinical Experience. The principles of evidence based practice (EBP), including the application of evidence and the creation of evidence (both quantitative and qualitative), 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 discussed. Issues related to clinical and research ethics will also be discussed. Level: Graduate

P T 582 - Clinical Clerkship. 1 Credit.
Offered spring. Prereq., enrolled in entry-level DPT program 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 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 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., enrolled in entry-level DPT program or permission of instructor. Eight weeks of full-time clinical experience with emphasis on developing patient evaluation and treatment skills. Only CR/NCR grading. Level: Graduate

P T 589 - Full-Time Clinical Experience II. 6 Credits.
Offered summer. Prereq., enrolled in entry-level DPT program or permission of instructor. 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. Level: Graduate

P T 595 - Field Work/Clinical. 1-4 Credits.
(R-4) Level: Graduate

P T 626 - Clinical Medicine IV. 2 Credits.
Offered autumn. Prereqs., enrolled in entry-level DPT program 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 or consent of instructor. Principles of public health and epidemiology as they relate to health prevention and wellness with an emphasis on clinical application and face-to-face patient interaction in the physical therapy setting. Level: Graduate

P T 629 - Clinical Medicine V. 2 Credits.
Offered autumn. Prereqs., enrolled in entry-level DPT program 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. This course examines health science curriculum design, including discussion of development of mission, vision, philosophy and outcomes. Level: Graduate

P T 634 - Health Science Education Foundations IV: Leadership Essentials to Transform Education. 3 Credits.
Offered autumn, spring. Online. 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 635 - Health Science Education: Faculty Evaluation & Development. 2 Credits.
Offered autumn, spring. Online. This course examines in detail methods of faculty assessment beginning with hiring, development, assessment and supervision. Level: Graduate

P T 636 - Health Science Education: Leading Teams, the Art of Influencing Others. 2 Credits.
Offered autumn, spring. Online. This course explores how to form, manage and motivate teams with awareness of gender, generational and developmental considerations. 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 and spring. Prereq., must be enrolled in LIH certificate program and P T 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 and spring. Prereq., must be enrolled in LIH certificate program and P T 641 and P T 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 and spring. Prereq., must be enrolled in LIH certificate and P T 641, P T 642, and P T 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 and spring. Prereq., must be enrolled in LIH certificate program and P T 641, P T 642, P T 643, and P T 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 and autumn. Prereq., must be enrolled in LIH certificate program and P T 641, P T 642, P T 643, P T 644, and P T 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 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 650 - Screening for Medical Disorder. 2 Credits.
Offered autumn and 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

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 learners 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. Not required for students completing the post-professional DPT program practicing outside the US. 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
PT 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

PT 672 - Research in PT. 2 Credits.
Offered autumn and spring. Prereqs., enrolled in entry-level DPT program or consent of instructor. Data analysis, writing of research manuscript, presentation of project. Level: Graduate

PT 676 - Clinical Reasoning III. 3 Credits.
Offered autumn. Prereqs., enrolled in entry-level DPT program or consent of instructor. Course addresses critical appraisal of complex research designs and clinical reasoning related to the provision of evidence-informed care. Level: Graduate

PT 679 - Trends & Scholarly Activity. 1-6 Credits.
(R-6) Offered autumn and spring. Prereqs., Enrolled in entry-level DPT program 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

PT 680 - Clinical Internship. 11 Credits.
Offered spring. Prereq., enrolled in entry-level DPT program 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

PT 690 - Research. 1-10 Credits.
(R-10) Prereq., consent of instr. Traditional or CR/NCR grading as determined by instructor. Level: Graduate

PT 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

PT 692 - Independent Study. 1-4 Credits.
(R-6) Prereq., Enrolled in entry-level DPT program or consent of instructor. Traditional or CR/NCR grading as determined by instructor. Level: Graduate

PT 694 - Seminar/Workshop. 1-6 Credits.
(R-6) Traditional or CR/NCR grading as determined by course instructor. Level: Graduate

PT 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