

School of Physical Therapy: DPT Course Descriptions

| Semester | # | Credits | Course Title | Course Description |
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| Year 1 Summer I 1 | PT 700 | 5 | Gross Anatomy for Physical Therapy | Lecture and laboratory focusing on anatomical structure and function of the human body. Cadaveric dissection provides practical experiences allowing students to develop working images of the body and its function. |
| | PT 710 | 3 | Introduction to Human Movement | Lecture and laboratory introducing students to basic histology of connective, nervous, epithelial and muscle tissue utilized in human movement, palpations skills, goniometry and manual muscle testing. |
| | PT 750 | 2 | Foundations of PT Practice | Introduces students to medical terminology, historical foundations, and contemporary practice of physical therapy, traditional and emerging roles and responsibilities and professional behaviors of the physical therapist and issues of self-awareness and communications. |
| | PT 761 | 2 | Evidence-Based Practice I | Decision making, diagnosis, and hypothesis development, utilization of information sources, and principles, concepts, and skills required to critically analyze and conduct clinical research in physical therapy. |
| Year 1 Fall I 2 | PT 701 | 4 | Neuroanatomy | Normal and abnormal structure and function of central, peripheral and autonomic systems, neurodevelopment, and neural mechanisms mediating motor control and pain with emphasis on clinical relevance to physical therapy. |
| | PT 711 | 4 | Human Movement I | Biomechanical principles, muscle actions, joint mechanics, joint segments and whole body movement pattern analysis, and mastery of surface anatomy and palpation skills necessary for differential diagnosis of movement dysfunction. |
| | PT 720 | 3 | Advanced Clinical Physiology | Reviews normal human cellular- and organ-level physiology, histology, and function, and introduces related topics of pathophysiology including: clinical signs and symptoms, clinical laboratory science, medical management and pharmacological issues. |
| | PT 731 | 3 | Clinical Skills | Theory/practice of essential physical therapy skills, including clinical decision making, interview, postural and functional assessment, safe patient handling techniques of positioning, bed mobility, transfers, and use of assistive devices. |
| | PT 741 | 2 | Medical Path in PT I- General | Pathological conditions, and medical and surgical considerations for treatment of genetic, gastrointestinal renal, endocrine and metabolic, immune, hematologic, and infectious disorders in patients treated by physical therapists. |
| | PT 751 | 2 | Legal-Cultural Issues in PT | Development of cultural competence, analysis, and practice of communications skills including documentation, professionalism, group dynamics and leadership to assume roles of practitioner, instructor, supervisor, and leader. |
| | PT 771 | 1 | Clinical Application Seminar and Experiences I | A seminar course designed to foster application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on clinical interview and basic evaluation skills. |
| Year 1 Spring I 3 | PT 712 | 4 | Human Movement II | Reviews maturation of movement systems, lifespan motor skills development, and contemporary theories of motor control and learning to build evidence-based foundations for evaluation and management of movement dysfunction. |
| | PT 732 | 3 | Therapeutic Interventions | This 3 credit hour course introduces students to teaching and learning principles through the application of physical, thermal, and mechanical modalities and therapeutic interventions. Therapeutic interventions include activities to improve joint and muscles. |
| | PT 742 | 2 | Medical Path in PT II- Musculoskeletal | Pathological conditions, and medical and surgical considerations for treatment of musculoskeletal disorders in patients treated by physical therapists. |
| | PT 744 | 3 | Medical Path in PT IV- Neuro | This course reviews the functional neuroanatomy and neuropathology correlated with select neuropathological conditions or injury, focusing on etiology, epidemiology, |

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| | | | | medical/surgical considerations, neural substrates of cognitive, perceptual, and sensorimotor function in patients treated by physical therapists. |
| | PT 763 | 2 | Evidence-Based Practice II | Students are guided through the process of a Systematic Literature Review development on a topic selected by the student and their Faculty Research Advisor and learn to apply principles of research to the clinical decision-making process and to make recommendations for practice. |
| | PT 772 | 1 | Clinical Application Seminar and Experiences II | Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on general interventions in interdisciplinary management with complex concerns |
| | PT 781 | 3 | Musculoskeletal I | The basic principles of orthopedic medicine including an overview of etiology, diagnosis, and surgical management will be covered. Physical Therapy examination, evaluation, diagnosis, and treatment of extremities and spine will be emphasized. |
| Year 2 Summer II 4 | PT 713 | 2 | Human Movement III | Assessment of constraints to normal movement, application of standardized tools for assessment of movement dysfunction, examination of statistical data (population-specific reliability, validity, sensitivity, specificity, odds ratios) of said tools. |
| | PT 747 | 2 | Pharmacology in Rehab | Examination of the effects of commonly used prescription, over the counter and homeopathic drugs. Focus on method of action, indications, contraindications, side effects and impact on physical therapy patients. |
| | PT 773 | 1 | Clinical Application Seminar and Experiences III | Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on upper and lower extremities. |
| | PT 782 | 4 | Musculoskeletal II | Advanced concepts of musculoskeletal examination, evaluation, diagnosis and treatment of the extremities and spine will be covered. An evidence-informed/clinical reasoning-based manual therapy approach will be used including mobilization and manipulation. |
| | PT 758 | 1 | PM & BC in PT | Introduction to patient motivation and behavioral change in physical therapy practice. Emphasis on practical strategies to promote healthy patient/client change leading to improved human movement and overall health. |
| Year 2 Fall II 5 | PT 702 | 1 | Neuroevaluation | Comprehensive screening, exam and evaluation of patients with neurological dysfunction with focus on selection and interpretation of examination components in order to discern underlying pathophysiology reflective of neurological dysfunction. |
| | PT 721 | 3 | Applied Exercise Physiology | Physiological effects of exercise and training in healthy individuals and individuals with pathological dysfunction. |
| | PT 754 | 1 | Healthcare Delivery Systems | Micro and macro principles of healthcare delivery systems, sites, and organizations and pro bono services. Legalities of appropriate documentation for third-party payers and federal insurance programs are addressed. |
| | PT 764 | 1 | Evidence-Based Practice III- Capstone | Continuation of Evidence-Based Practice II where students receive continued guidance in the completion of the faculty-led capstone project begun in EBP II. Presentation of capstone required before graduation. |
| | PT 774 | 1 | Clinical Application Seminar and Experiences IV | Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on spinal pathology and neuromuscular dysfunction. |
| | PT 791 | 4 | Clinical Internship I | Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in clinical settings. Competence is expected in areas of the material presented to date in the curriculum. |
| | PT 789 | 1 | Musculoskeletal III | Advanced diagnosis and management approaches for complex orthopedic, and sports PT populations will be covered. Differential diagnosis of upper and lower |

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| | | | | quarter pathology, along with specialized treatments unique to this population will be emphasized. |
| Year 2 Spring II 6 | PT 704 | 4 | Neurorehabilitation | Theoretical basis and clinical application of neurophysiological approaches to treatment utilizing motor control, sensorimotor development, and integration principles, including discussion and practice of current methods of evaluation and intervention. |
| | PT 755 | 1 | Service Learning Practicum | Allows participation in service learning programs developed in Professional Practice III, emphasizing advocacy for the health needs of the region, as well as coordination with community agencies. |
| | PT 765 | 1 | Evidence-Based Practice IV-Capstone | Continuation of Evidence-Based Practice III where students receive continued guidance in the completion of the faculty-led capstone project begun in EBP II. Presentation of capstone required before graduation. |
| | PT 775 | 1 | Clinical Application Seminar and Experiences V | Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on cardiopulmonary and intra-disciplinary management of patients with complex concerns. |
| | PT 783 | 4 | Cardio-Pulmonary Rehabilitation | An overview of cardiovascular and pulmonary systems pathologies, medical diagnosis and management and physical therapy diagnosis, examination, assessment and management of related physiological and movement dysfunctions. |
| | PT 786 | 3 | Rehabilitation Consideration in Selected Patient Population I | Principles of evaluation and treatment in the areas of pediatrics and geriatrics. Emphasis placed on biopsychosocial aspects of developmental disabilities, coordination of care and complexities of multi-system and multi-organ disease. |
| Year 3 Summer III 7 | PT 756 | 3 | Administration in PT | Emphasis on administration of clinical practice in multiple settings. Information about licensure, attainment and retention of employment, professional organization membership, residency and fellowship programs, and specialization. |
| | PT 766 | 1 | Evidence-Based Practice V-Capstone | Continuation of Evidence-Based Practice IV where students receive continued guidance in the completion of the faculty-led capstone project begun in EBP II. Presentation of capstone required before graduation. |
| | PT 776 | 1 | Clinical Application Seminar and Experiences VI | Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting-Focus on neurological, integumentary dysfunctions, and prosthetic & orthotic prescription. |
| | PT 784 | 3 | Integumentary | Review of structure, function, and applied pathophysiology of integumentary system. Translate knowledge towards PT examination and management of common integumentary impairments with a focus on prevention, restoration, and optimizing independence. |
| | PT 787 | 2 | Rehabilitation Consideration in Selected Patient Population II | Principles of evaluation and management of patients with amputation and/or neuromuscular disorders to maximize functional independence. Focus on prosthetic and orthotic prescription, components, fabrication, fit, and use during functional activities. |
| | PT 799 | 1 | Integration & Review | Integration and review of clinical physical therapy principles and concepts in preparation for the National Physical Therapy Board Examination. |
| | PT 777 | 1 | Clinical Application Seminar and Experiences VII | Continued application of information and clinical skills learned in concurrent and prior DPT coursework in a small group discussion and pseudo-clinical setting. Focus on health promotion and chronic disease prevention. |
| | PT 785 | 2 | Health Promo and Nutrition | Development and maintenance of healthy lifestyles for patients and clients. Focus on disease prevention, nutritional needs, and the benefits of exercise as well as managing individuals with injury or disease. |
| | PT 788 | 1 | Rehabilitation Consideration in Selected Patient Population III | Principles of physical therapy management of select patient populations including bariatrics, women's health, oncology, and selected progressive and chronic diseases. |

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| | PT 792 | 6 | Clinical Internship II | Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in various clinical settings. Competence is expected in areas of the material presented to date in the curriculum. |
| Year 3 Spring III 9 | PT 767 | 1 | Evidence-Based Practice VI- Capstone | Continuation of Evidence-Based Practice V where students receive continued guidance in the completion of the faculty-led capstone project begun in EBP II culminating with presentation of completed capstone. |
| | PT 793 | 8 | Clinical Internship III | Supervised clinical education experience emphasizing continued development and reinforcement of clinical skills in various clinical settings. Competence is expected in areas of the material presented to date in the curriculum. |