

# Physical Therapy (PT)

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## Courses

### **PT 5501 Clinical Kinesiology and Biomechanics: 4 semester hours.**

Analysis of normal and pathological human movement in joints, posture, gait, and the vertebral column. Application of movements to therapeutic interventions is emphasized. PREREQ: Graduate student; progression in the DPT program.

### **PT 5502 Clinical Neuroscience: 5 semester hours.**

Study of structure and function of the human nervous system at the cellular and systemic levels. Specific application to clinical management of neurological problems and pathology. PREREQ: Graduate student; progression in the DPT program. \*note - Biology students taking the cross listed course (BIOL 4460/5560) are not required to take a lab for this course

### **PT 5512 Professional Communication: 2 semester hours.**

Introduction to standard forms of professional communication in physical and occupational therapy and among other health care professions. Medical

### **PT 5514 Research Methodology: 3 semester hours.**

Application of principles of research design in the biological, psychological and social sciences. Clinical and laboratory research in occupational and physical therapy are emphasized. Preparation for professional project. PREREQ: Graduate student; progression in the DPT or MOT program.

### **PT 5515 Service Delivery of Occupational Therapy: 3 semester hours.**

Students acquire the knowledge, skills, and professional behaviors needed to develop, organize, implement, manage, and evaluate relevant therapy programs, using a business model and/or grant-sponsored endeavor. Students explore and learn about policies related to reimbursement

### **PT 6606 Clinical Therapeutic Exercise: 3 semester hours.**

Theoretical and evidence-based application of exercise for various pathological conditions. Aerobic conditioning, muscular strengthening, flexibility, balance, coordination, power and agility are discussed, demonstrated and evaluated. Specific exercise prescription, modes of exercise, and application for desired outcomes are emphasized. PREREQ: Graduate student; progression in the DPT program.

### **PT 6608 Applied Pharmacology - Musculoskeletal Emphasis: 1 semester hour.**

Study of the major drug groups, therapeutic implication and side effects for drugs commonly used for musculoskeletal disorders. PREREQ: Graduate student; progression in the DPT or MOT program; or by course instructor permission.

### **PT 6609 Applied Pharmacology - Cardiopulmonary Emphasis: 1 semester hour.**

Study of the major drug groups, therapeutic implication and side effects for drugs commonly used for cardiopulmonary system disorders. PREREQ: Graduate student; progression in the DPT or MOT program; or by course instructor permission.

### **PT 6610 Applied Pharmacology - Neurological Emphasis: 1 semester hour.**

### **PT 6614 Physical Therapy Fundamentals: 2 semester hours.**

The introduction and practice of basic knowledge and skills needed for physical therapy practice and management. PREREQ: Graduate student; acceptance in the DPT Program.

### **PT 6615 DPT Capstone Project: 2 semester hours.**

This is a three phase, progressive series of courses. Capstone Phase 1 (1 credit) requires the study and write up of a clinical pathology. Capstone Phase 2 (2 credit) presents case report design process education, healthcare advocacy, and legal professional concerns. Capstone Phase 3 (2 credits) includes national board examination preparation, case report development requiring the in-depth study, development, reporting and presentation of a comprehensive patient case with an emphasis on the clinical reasoning and decision-making related to the entire patient care process.

### **PT 6617 Research Practicum: 1 semester hour.**

Faculty supervised clinical, basic or applied research project which may include review of literature preparation, proposal development, data collection, and manuscript preparation. May be repeated up to 4 credits. Graded S/U. PREREQ: Graduate student; progression in the DPT program.

### **PT 6618 Practicum I: 1 semester hour.**

Supervised clinical experience in physical therapy. May be repeated up to 4 credits. Graded S/U. PREREQ: Graduate student, progression in the DPT program

### **PT 6619 Practicum II: 1 semester hour.**

Supervised clinical experience in physical therapy. May be repeated up to 4 credits. Graded S/U. PREREQ: Graduate student, progression in the DPT program

### **PT 6620 Clinical Procedures: 3 semester hours.**

Study and practice of theory and application of basic techniques of patient evaluation, handling, and treatment in physical therapy. PREREQ: Graduate student, progression in the DPT program.

### **PT 6621 Musculoskeletal System Management (spine): 3 semester hours.**

Orthopedic and manual physical therapy evaluation, treatment, and management of spinal conditions including muscle, skeletal, and connective tissue pathologies. Lab/Lecture course with video and web supplementation.

### **PT 6622 Musculoskeletal System Management (lower extremity): 3 semester hours.**

Orthopedic and manual physical therapy evaluation, treatment, and management of lower extremity conditions including muscle, skeletal, and connective tissue pathologies. Lab/Lecture course with video and web supplementation.

### **PT 6623 Biophysical Agents Theory and Application: 2 semester hours.**

Study of theory and therapeutic uses of biophysical agents with practice of application designed to develop clinical competence in the use of biophysical agents in the treatment of patients with specific pathologies and conditions

### **PT 6624 Cardiac and Pulmonary Systems Management: 3 semester hours.**

Physical therapy evaluation and management of persons with dysfunction of the cardiac and/or pulmonary systems and related pathologies. Principles and workings of acute care settings in physical therapy. Management by other health professional team members. PREREQ: Graduate student, progression in the DPT program

### **PT 6625 Cardiac and Pulmonary System Management II: 2 semester hours.**

Physical therapy management of persons with increased criticality of dysfunction of the cardiac and/or pulmonary systems and related pathologies. Emphasis on pulmonary systems and interaction with other body systems. PREREQ: Graduate student, progression in the DPT program.

### **PT 6626 Neurological Systems Management: 2 semester hours.**

Physical therapy management of patients with central and peripheral neural and neuromuscular dysfunctions from traumatic causes. PREREQ: Graduate student, progression in the DPT program.

***PT 6628 Integumentary and Lymphatic Conditions: 2 semester hours.***

***PT 6631 Clinical Affiliation I: 5 semester hours.***

Clinical management practicum related to orthopedics, general medicine, and/or cardiopulmonary problems in a variety of clinical settings. Graded S/U. PREREQ: Graduate student; progression in the DPT program.

***PT 6632 Clinical Affiliation II: 5 semester hours.***

Clinical management practicum related to patients with orthopedic, neurological and multisystem problems. Graded S/U. PREREQ: Graduate student; progression in the DPT program.

***PT 6642 Musculoskeletal System Management (upper extremity): 3 semester hours.***

Orthopedic and manual physical therapy evaluation, treatment, and management of upper extremity conditions including muscle, skeletal, and connective tissue pathologies. Lab/Lecture course with video and web supplementation.

***PT 6646 Neurological Systems Management Lab: 3 semester hours.***

Physical therapy management of patients with central and peripheral neural and neuromuscular dysfunctions from acquired neurological conditions. PREREQ: Graduate student, progression in the DPT program.

***PT 6648 Graduate Special Topics: 1-3 semester hours.***

Individual or group critical analysis and study of a specific area of physical therapy patient management, administration, or research. May be repeated. PREREQ: 2nd year students and/or permission of instructor.

***PT 6650 Diagnostic Imaging for Rehabilitation Professionals: 1 semester hour.***

***PT 7711 Applied Pharmacology - Mental Health Emphasis: 1 semester hour.***

Study of the major drug groups, therapeutic implication and side effects for drugs commonly used for mental health and lifespan considerations. PREREQ: Graduate student; progression in the DPT or MOT program; or by course instructor permission.

***PT 7713 Physical Therapy Professions: 1 semester hour.***

Survey of current status of the physical therapy profession in health care systems. Professionalism, ethics, legal issues, validation of practice, future projections and historical perspective. PREREQ: Graduate student; acceptance in the DPT Program

***PT 7715 Physical Therapy Resource Management: 3 semester hours.***

Application of business and health care administration principles to the practice of physical therapy resource management strategies with an emphasis on community service delivery. PREREQ: Graduate student; progression in the DPT program.

***PT 7725 Multi-Systems Management: 4 semester hours.***

Physical therapy management of persons with problems affecting multiple systems; burns, wounds, amputations, neoplasms, metabolic disorders. PREREQ: Graduate student; progression in the DPT program

***PT 7727 Geriatric Management: 3 semester hours.***

Examination, evaluation and treatment of the elderly population with emphasis on the management of normal and pathological conditions. PREREQ: Graduate student; progression in the DPT program.

***PT 7728 Lifespan Development: 3 semester hours.***

Normal and abnormal development of neuromuscular, musculoskeletal, cardiopulmonary systems cognitive/perceptual and psychosocial behavior associated with life through adolescence. Evaluation, program planning and treatment strategies are introduced. PREREQ: Progression and full enrollment in the DPT program.

***PT 7733 Clinical Affiliation III: 5 semester hours.***

Clinical management practicum related to patients with orthopedic, neurological, and multisystem problems. PREREQ: Graduate student; progression in the DPT program.

***PT 7734 Clinical Affiliation IV: 5 semester hours.***

Clinical management practicum related to patients with orthopedic, neurological, cardiopulmonary, and multisystem problems leading to entry-level competency. Graded S/U. PREREQ: Graduate student; progression in the DPT program.