Courses

**PTOT 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.

**PTOT 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.

**PTOT 5503 Fieldwork Seminar: 1 semester hour.**
Individual or group in the process and procedures of acquiring placement in fieldwork rotations in the MOT program. Will be repeated. Graded S/U. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**PTOT 5504 Generic Abilities: 1 semester hour.**
Individual and/or group discussion, self assessment, goal setting and portfolio development related to developing and maintaining professional behaviors in occupational therapy practice. PREREQ: None. Will be repeated. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**PTOT 5505 Occupational Therapy Clinical Procedures: 2 semester hours.**
Study and practice of theory and application of basic techniques of client evaluation, handling, and an introduction to treatment in occupational therapy. PREREQ: PTOT 5501 and BIOL 5574.

**PTOT 5506 Analysis of Human Movement Through Activity: 4 semester hours.**
Analysis of normal and pathological movement of the human body. Joint biomechanics, kinesiology, arthrokineimatics, and osteokinematics as applied to functional activities. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Enrollment in MOT program.

**PTOT 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 record-keeping and interdisciplinary communication are emphasized. PREREQ: Graduate student; progression in the DPT or OPT program.

**PTOT 5513 Occupational Therapy Profession: 3 semester hours.**
Historical overview of occupational therapy in health care, education and psychosocial settings. Occupational therapy process, rural human service delivery system, professionalism, ethics, and legal issues will be examined.

**PTOT 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.

**PTOT 5515 Service Delivery of Occupational Therapy: 3 semester hours.**
Application of theoretical concepts of management to the delivery of occupational therapy services. Development, implementation and outcome evaluation of community-based service delivery systems will be emphasized. PREREQ: PTOT 5522 and PTOT 5532.

**PTOT 5519 Practicum: 1 semester hour.**
Application of various aspects of critical thinking skills to client assessment and intervention. Reflection on and development of personal approaches to patient care. COREQ: PTOT 5533.
PTOT 5542 Occupational Performance Laboratory: 1 semester hour.
Introduction to and practice using occupation focused evaluation tools and methodologies used in analyzing, evaluating, and categorizing occupational performance. COREQ: PTOT 5522.

PTOT 5544 Physical Function in Occupation Laboratory: 1 semester hour.
Laboratory exercise designed to apply evaluation and treatment techniques used in physical and psychosocial occupational performance approach. COREQ: PTOT 5524.

PTOT 5545 Psychosocial Function in Occupation Laboratory: 1 semester hour.
Laboratory exercise designed to apply evaluation and treatment techniques in the management of psychosocial dysfunction to optimal function. The laboratory develops preclinical competency in psychosocial function across the lifespan. COREQ: PTOT 5525.

PTOT 5546 Neurological Function in Occupation Laboratory: 1 semester hour.
Designed to apply evaluation and treatment techniques to promote adaptation and optimal function. The laboratory serves to develop preclinical competency in the management of neurological disorders. COREQ: PTOT 5526.

PTOT 5547 Occupation and Environmental Management Laboratory: 1 semester hour.

PTOT 5548 Occupation with Children and Adolescents Laboratory: 1 semester hour.
Laboratory exercise designed to apply evaluation and treatment techniques for children and adolescents specific to occupational performance dysfunction, adaptation and optimal function. COREQ: PTOT 5528.

PTOT 5599 Experimental Course: 1-6 semester hours.
The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.

PTOT 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.

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.

PTOT 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.

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

PTOT 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.

PTOT 6615 DPT Capstone Project: 1-2 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.

PTOT 6616 MOT Professional Project: 1-2 semester hours.
In-depth study of treatment, administrative, or education problem in occupational therapy. Preparation and public presentation of a publishable product is required. May be repeated for up to 6 credits. A minimum of 4 credits is required. Graded S/U. PREREQ: PTOT 5514.

PTOT 6617 Research Practicum: 1-2 semester hours.
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.

PTOT 6618 Practicum I: 1-2 semester hours.
Supervised clinical experience in physical therapy. May be repeated up to 4 credits. Graded S/U. PREREQ: PTOT 6621 and PTOT 6641.

PTOT 6619 Practicum II: 1-2 semester hours.
Supervised clinical experience in physical therapy. May be repeated for up to 4 credits. Graded S/U. PREREQ: PTOT 6618.

PTOT 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.

PTOT 6621 Musculoskeletal System Management 1 (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.

PTOT 6622 Musculoskeletal System Management 2 (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.

PTOT 6623 Biophysical Agents Theory and Application: 3 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.

PTOT 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.
PTOT 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.

PTOT 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.

PTOT 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.

PTOT 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.

PTOT 6642 Musculoskeletal System Management 1 (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.

PTOT 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.

PTOT 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.

PTOT 6650 Diagnostic Imaging for Rehabilitation Professionals: 1 semester hour.
This course will introduce the rehabilitation to the basics of medical diagnostic imaging. Students will learn the basic production, evaluation, and integration of medical imaging. The focus of the course is on the understanding the standard x-ray film series for the spine and extremity joints, with specific applications of bone scans and MRI. It employs a systematic, practical approach and calls for class participation in the analysis of some films. Lecture course with video and web supplementation. PREREQ: graduate student, progression in the DPT program or permission of instructor.

PTOT 6681 Theories and Resources to Guide Clinical Decision Making in Physical Therapy: 3 semester hours.
Study and application of applying evidence in physical therapy practice. The Guide to PT Practice, Physical Therapy differential diagnosis, and legal and ethical considerations will be addressed.

PTOT 6682 Promoting Behavioral Change in Physical Therapist Practice: 2 semester hours.
Study of the theories of learning, compliance, and behavior modification as related to the application of prevention and wellness in physical therapy practice. PREREQ: PTOT 6681.

PTOT 6693 Contemporary Musculo-Skeletal System Management for Physical Therapists: 2 semester hours.
Applying evidence and elements of accepted practice to PT management of patients across the lifespan with musculoskeletal diagnoses. PREREQ: PTOT 6682.

PTOT 6694 Contemporary Cardiopulmonary System Management for Physical Therapists: 2 semester hours.
Applying evidence and elements of accepted practice to PT management of patients across the lifespan with cardiac and/or pulmonary diagnoses. PREREQ: PTOT 6693.

PTOT 6695 Contemporary Neurological System Management for Physical Therapists: 2 semester hours.
Applying evidence and elements of accepted practice to PT management of patients across the lifespan with neurological diagnoses. PREREQ: PTOT 6694.

PTOT 6696 Patient Case Seminar: 2 semester hours.

PTOT 6699 Experimental Case: 1-6 semester hours.
The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.

PTOT 7701 Contemporary Multiple System Management for Physical Therapists: 2 semester hours.
Applying evidence and accepted clinical practice to PT management of patients across the lifespan with diagnoses affecting multiple systems. PREREQ: PTOT 6696.

PTOT 7705 Clinical Case Management: 3 semester hours.
Advisor guided development and completion of a patient case study demonstrating the application of evidence for PT examination, diagnoses, medical management, treatment and discharge. Oral presentation required. Graded S/U. PREREQ: PTOT 7701.

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.

PTOT 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

PTOT 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.

PTOT 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.

PTOT 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.
PTOT 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.

PTOT 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.

PTOT 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.

PTOT 7735 Clinical Externship: 5 semester hours.
Clinical management experiences related to patient care, administration, or research in a variety of practice environments. Graded S/U. PREREQ: Graduate student; progression in the DPT program.