

PHYSICAL THERAPY PROGRAM
DOCTOR OF PHYSICAL THERAPY (DPT) COURSES

FIRST YEAR, Summer Semester

DPTR 5001 Clinical Anatomy I **6.0 cr.**

This course follows a regional approach to gross anatomy of the musculoskeletal, circulatory, and nervous systems of the upper and lower extremities, thorax and head and neck. Supplemented by cross sectional anatomy, radiographic and digital imaging.

DPTR 5201 Examination & Evaluation I **2.0 cr.**

This course introduces the student to the physical therapist's examination of the patient. This course will familiarize the student with the ICF framework and emphasize foundational examination skills including postural analysis, manual muscle testing, goniometry, and surface palpation.

DPTR 5211 Foundations of Intervention I **2.0 cr.**

This course introduces basic intervention principles and techniques for posture and positioning, basic mobility with and without assistive devices, soft tissue mobilization, and physical agents, for improving functional mobility in a variety of clinical populations.

DPTR 5711 Professional Development I **2.0 cr.**

This course is the first in a series of courses on professional development. Students will explore self and begin the journey of becoming a physical therapist, including personal and professional values and professional communication/ behaviors. Concepts of continuum of care and population health will be introduced.

FIRST YEAR, Fall Semester

DPTR 5011 Neuroscience **3.0 cr.**

This course provides a framework for understanding the structural and functional organization of the human nervous system. Principles and applications of neurophysiology, neuroanatomy and functional correlates are included. Finally, diseases and dysfunctions of the nervous system that are relevant to current practice are introduced.

DPTR 5101 Movement Science I **3.0 cr.**

This course investigates movement science with emphasis on foundational biomechanical principles related to human posture and movement. Qualitative and quantitative movement analysis is presented with emphasis on clinical application.

DPTR 5141 Human Growth & Development **2.0 cr.**

This course addresses functional movement across the life span in healthy individuals. Emphasis is on stages in life when the greatest changes in motor behavior occur and the factors that influence those changes. Developmental changes in all systems and their contributions to functional movement will be explored.

DPTR 5151 Motor Control & Motor Learning **2.0 cr.**

This course presents the foundation of motor learning and control through application of current principles to optimal movement across the lifespan. Emphasis is on variables related to task composition and schedule, the environment, and augmented information that enhance practice of motor skills. Initial introduction of application to physical therapy interventions will be applied.

DPTR 5202 Examination & Evaluation II **2.0 cr.**

Continuation of DPTR 5201 with further exploration into the patient encounter. This course will emphasize developing a process of hypothesis generation to direct clinical decision making across the lifespan. Skill development includes advanced patient examination techniques of the integumentary system, cardiovascular and pulmonary system, the neuromuscular system, and musculoskeletal system, including analysis of human movement.

DPTR 5212 Foundations of Intervention II **2.0 cr.**

Continuation of DPTR 5211 with further introduction and advancement of foundational intervention principles and techniques including soft tissue mobilization, physical agents and electrotherapeutic modalities. Emphasis is on the application of exercise as an intervention for improving functional mobility and for managing a variety of clinical problems.

DPTR 5621 Evidence Based Practice **3.0 cr.**

This course covers and applies concepts and steps towards evidence-based practice to a variety of clinical settings, including: searching; selection; and appraisal of the literature. Emphasis is on searching the literature to answer clinical questions regarding physical therapy tests and measures, interventions, and patient prognosis.

- DPTR 5111 Exercise Science** **2.0 cr.**
This course will provide students with the current state of knowledge in the physiology of exercise. A systems approach will be used to provide a thorough understanding of the acute and chronic adaptations to exercise training, with an emphasis on the mechanisms underlying these adaptations.
- DPTR 5161 Psychosocial Aspects of Care I** **1.0 cr.**
This course is focused from the perspective of the practitioner as a person. General psycho-emotional issues and specific theories related to: practitioner self-awareness, emotions, spirituality, grief-loss-mourning, psych factors associated with the experience of pain will be presented. Introduction to motivational interviewing is included.
- DPTR 5301 Medical Conditions I** **4.0 cr.**
This course introduces the physical therapy management of patients with cardiovascular, pulmonary and metabolic disorders across the lifespan and across healthcare settings. Physiology, medical management, diagnostic testing, radiology and pharmacology are covered with implications for physical therapy interventions. Clinical decision making including differential diagnosis is introduced.
- DPTR 5401 Musculoskeletal Conditions I** **4.0 cr.**
This course introduces the examination, clinical decision-making and physical therapy management of musculoskeletal disorders across the life span, focusing on the lower quarter from the pelvis to the foot and ankle. Medical management, including radiology and pharmacology, are covered with implications for physical therapy interventions.
- DPTR 5501 Neuromuscular Conditions I** **3.0 cr.**
Frameworks for clinical decision-making are discussed regarding management of people with neurological conditions with an emphasis on people with stroke, cerebral palsy and spinal cord injury. This course teaches clinical skills for examination, evaluation, and intervention across the lifespan and across settings. Therapeutic handling/manual guidance is emphasized.
- DPTR 5631 Clinical Reasoning I** **1.0 cr.**
This introductory course teaches students to integrate current evidence with critical reasoning in the ICF framework to facilitate patient-centered decision making in the examination, prognosis, and intervention for elementary patient cases across a variety of clinical practice settings.
- DPTR 5721 Healthcare Delivery I** **1.0 cr.**

The course will include a basic overview of healthcare systems and payment systems. Concepts relevant to supervision and applicable laws to physical therapist practice will be reviewed, and patient quality improvement and safety will be introduced.

SECOND YEAR, Summer Semester

DPTR 6002 Clinical Anatomy II **3.0 cr.**

This course follows a regional approach to gross anatomy of the structures and systems of the abdomen and pelvis and supplemented by cross sectional anatomy, radiographic and digital imaging. An in-depth study of upper and lower extremity arthrology through cadaver dissection is included.

DPTR 6402 Musculoskeletal Conditions II **2.0 cr.**

This course continues examination, clinical decision-making and physical therapy management of people with musculoskeletal disorders across the life span, focusing on the cervicothoracic spine and temporomandibular disorders. Medical management, radiology and pharmacology are covered with implications for physical therapy interventions.

DPTR 6502 Neuromuscular Conditions II **2.0 cr.**

This course includes an in-depth exploration of people with neurodegenerative conditions across the lifespan, specific tests and measures, prognoses, and intervention approaches. Radiology and pharmacology as related to neuropathology are included.

SECOND YEAR, Fall Semester

DPTR 6102 Movement Science II **2.0 cr.**

Application of movement science in physical therapy practice with emphasis on human movement related to aging, clinical analysis, tests & measures, and prosthetics & orthotics. The prosthetic and orthotic unit is designed to build student competency in clinical management of individuals who require use of common prosthetic and orthotic devices.

DPTR 5162 Psychosocial Aspects of Care II **2.0 cr.**

Builds on knowledge, skills and attitudes gained in DPTR 5161 with additional focus on general issues and theories related to: changing behaviors, depression and anxiety, sexuality in rehabilitation, suicidal behavior, addiction in society, stress management, and conflict resolution.

DPTR 6302 Medical Conditions II **2.0 cr.**

This course continues with the physical therapy management of medical conditions. Oncologic, metabolic, and rheumatologic disorders occurring across the lifespan and health care settings are highlighted. The physical therapist's clinical skills and decision making including differential diagnosis are advanced while integrating physiology, medical and pharmacological management, diagnostic testing and radiology.

DPTR 6403 Musculoskeletal Conditions III **4.0 cr.**

This course continues the examination, clinical decision-making and physical therapy management of people with musculoskeletal disorders across the life span, focusing on upper extremity, pediatric, geriatric, in-patient, working adults, and gender-specific conditions. Medical management, radiology and pharmacology are covered with implications for physical therapy interventions.

DPTR 6503 Neuromuscular Conditions III **4.0 cr.**

This course progresses and synthesizes clinical skills, decision-making and reasoning (including use of frameworks and evidence) as applied to the physical therapy management for individuals with neuromuscular conditions across the lifespan. The physical therapist's role across settings and the continuum of care will be explored.

DPTR 6632 Clinical Reasoning II **1.0 cr.**

This advanced course teaches students to integrate current evidence with critical reasoning in the ICF framework to facilitate patient-centered decision making in the examination, prognosis, and intervention for complex patient cases across a variety of clinical practice settings.

DPTR 6712 Professional Development II **2.0 cr.**

Explores professional roles and responsibilities related to the role of the DPT. Extends beyond patient management to legislation, policy, advocacy, teamwork and collaboration and quality improvement. Discusses current issues, trends, and history of the PT profession and our professional organization. Begins to address career options and professional development following graduation.

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| SECOND YEAR, Spring Semester |
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DPTR 7112 Applied Exercise Science **3.0 cr.**

This course will focus on exercise prescription for complex patients with multi-system disease. Emphasis will be on clinical decision-making to tailor appropriate rehabilitation interventions to medically-complex patient populations.

DPTR 6303 Medical Conditions III **3.0 cr.**

This course continues with the physical therapy management of medical conditions. Integumentary, endocrine, psychiatric and medically complex disorders requiring transplantation and/or intensive care are highlighted. The physical therapist's clinical skills and decision making including differential diagnosis are advanced while integrating physiology, medical and pharmacological management, diagnostic testing and radiology.

DPTR 6633 Clinical Reasoning III

2.0 cr.

This course requires students to integrate evidence, patient values, and clinical expertise with the ICF model of clinical decision making for actual patient cases. Students will identify and answer focused questions regarding examination, intervention, and prognosis through literature searches and online collegial discussion forums.

DPTR 6713 Professional Development III

1.0 cr.

Introduction to management and leadership in healthcare, including leadership styles/characteristics and leadership development. Explores professional development opportunities following PT licensure including residency/fellowship, continuing education and expectations of a first position as a new professional.

DPTR 6732 Healthcare Delivery II

3.0 cr.

Continuation from HCD I. Focus on trends and issues that impact the practice of physical therapy in diverse health care settings. Applicable laws will be revisited, with focus on clinical application. Administration of physical therapist practice including management, marketing, human resources, risk management and financial management will be introduced.

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| THIRD YEAR, Summer Semester |
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DPTR 7171 Health & Wellness

3.0 cr.

Primary prevention and health promotion are integral aspects of PT practice. Students will explore population health and the social determinants of health, identify effective strategies for promoting individual and community health (e.g., integrative medicine, motivational interviewing, program design/implementation), and examine how policy influences health at the individual and community levels.

DPTR 7212 Elective I

1.0 cr.

Various topics; provides students with the opportunity to explore in-depth selected topics related to clinical practice, or topics that are outside of the scope of the set curriculum.

DPTR 7213 Elective II

1.0 cr.

Various topics; provides students with the opportunity to explore in-depth selected topics related to clinical practice, or topics that are outside of the scope of the set curriculum.

DPTR 7641 Integrated Practice **4.0 cr.**

A synthesis of curricular content applied to highly complex situations illustrative and inclusive of clinical practice across the lifespan. Through retrospective and prospective reasoning, students will analyze and articulate decisions based on reasoning, evidence, and contextual realities with colleagues across health care professions.

DPTR 7651 Clinical Reasoning Capstone **3.0 cr.**

This final course in the clinical reasoning sequence requires students to articulate and defend their clinical decision-making process in the examination, evaluation, management, and outcome assessment for a selected patient. Students will synthesize and integrate the evidence to inform decision making throughout each aspect of the patient management process.

DPTR 7703 Professional Topics III: Leadership in Practice **1.0 cr.**

This course focuses on the role of leaders and concepts of leadership in physical therapy, health care settings, on teams, and in our professional organization. Leadership styles and perspectives, and differences between leadership and management are explored. Planning for next steps in career development, mentoring, and professional planning are included.

DPTR 7711 Health Care Delivery **4.0 cr.**

Health care systems are reviewed for diverse settings from hospital to homecare. Topics include health policy and reform, insurance plans, coding/billing, business principles, human resources, case and risk management, licensure, advocacy, supervision issues and interview preparation. This course will include a comparison of the US healthcare systems and other nations.

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| CLINICAL EDUCATION |
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DPTR 5901 Integrated Clinical Experience I **1.0 cr.**

Short-term clinical education experience providing initial foundation and understanding of clinical practice with emphasis on integration of didactic and clinical learning while working in a student team.

DPTR 5911 Clinical Education I **5.0 cr.**

8-week, full-time clinical experience with emphasis on appreciating the roles of the physical therapist, beginning to manage a case load, and participating on a healthcare team.

DPTR 6902 Integrated Clinical Experience II **1.0 cr.**

2-week clinical education experience with emphasis on gaining breadth of experience, applying previously gained knowledge to a new clinical setting, engaging in advanced clinical problem-solving, while continuing to practice psychomotor skills.

DPTR 6932 Clinical Education II **6.0 cr.**

10-week, full-time clinical experience with emphasis on increasing independence in management of patients, becoming an integral member of the healthcare team, and using self-assessment for professional development.

DPTR 7913 Clinical Education III **10.0 cr.**

16-week, full-time clinical experience with emphasis on functioning as an entry-level clinician, and understanding the role of a Doctor of Physical Therapy within the complexities of the healthcare system through teamwork and collaboration. First phase of year-long internship.

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| PROGRAM REQUIREMENTS |
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Humanities

Humanities will occur in each year of the program. Each humanities session exposes the student to stories of illness, disability, and accident, as a way to provide an exploration and analysis imaginative materials such as film, poetry and fiction that represent the vagaries of the human condition across the lifespan.

Interprofessional Education Development (IPED)

IPED 5002 Interprofessional Education Development

This course develops core competencies in teamwork and collaboration, values and ethics, and quality and safety for first-year health professions students. The course will be taught in a team-based format requiring individual preparation before each session followed by the application of that learning through team-based activities.

IPED 6001: Interprofessional Education Development

The course continues the development of core competencies in teamwork and collaboration, values and ethics, and quality and safety for second year health

professions students. This course is taught in a team-based learning format requiring individual preparation before each session followed by the application of that learning through team based-activities.

IPED Clinical Transformations

Clinical transformations is an interprofessional learning experience conducted at the Center for Advancing Professional Excellence, and is a collaborative health care simulation mimicking real life scenarios in a structured and safe environment. The AHRQ TeamSTEPPS (Team Strategies and Tools to Enhance Performance and Patient Safety) Framework will be used.