DOCTOR OF PHYSICAL THERAPY (DPT) COURSES 2014-15

FIRST YEAR, Summer Semester

DPTR 5001 Clinical Anatomy I  
A regional approach to gross and microscopic anatomy of the musculoskeletal, cardiovascular, lymphatic, and nervous systems of the extremities, thorax, back, and head and neck. Includes cross sectional anatomy, radiographic and digital imaging.

DPTR 5201 Examination & Evaluation I  
Introduction to a structure for analyzing patient encounters, the process of obtaining information from a general health questionnaire, patient history and systems review; followed by selecting and administering tests and measures to gather data about the patient.

DPTR 5211 Foundations of Intervention I  
Introduction to basic examination and 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 and for managing a variety of clinical problems.

DPTR 5711 Professional Development I  
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  
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.
Investigation of 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.
The foundation of motor learning and control is presented through application of current principles to activity-focused physical therapy interventions across the lifespan. Emphasis is on variables related to task composition and schedule, the environment, and augmented information that enhance practice of motor skills.

DPTR 5202 Examination & Evaluation II 2.0 cr.
Continuation of DPTR 5201 with reinforcement of patient-management models and use of additional tests and measures. Introduction to the use of the medical record and process of documentation.

DPTR 5212 Foundations of Intervention II 2.0 cr.
Introduction to basic examination and intervention principles and techniques of therapeutic exercise, soft tissue mobilization, and electrotherapeutic and mechanical modalities, and physical agents, for improving functional mobility and for managing a variety of clinical problems.

DPTR 5621 Evidence Based Practice 3.0 cr.
Concepts and steps of evidence-based practice including: searching; selection; and appraisal of filtered and unfiltered literature are covered and practically applied to a variety of key clinical inquires, including tests and measures; intervention; prognosis; cost analysis; and qualitative research, will be emphasized.

FIRST YEAR, Spring Semester

DPTR 5006 Physiology 2.0 cr.
This course is designed to provide an understanding of the functions of cells, tissues and organs in the human body and the overall integration of organ functions in the body as a whole. The integrated regulation of the neurological, cardiovascular and respiratory systems will be emphasized.
DPTR 5111 Exercise Science 2.0 cr.
This course will provide students with 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.
Focus from perspective of practitioner and patient/family, on general psycho-emotional issues and specific theories related to: health literacy, emotions, grief-loss-mourning, physical-emotional-psychological abuse, and psychological factors in the experience of pain.

DPTR 5301 Medical Conditions I 2.0 cr.
This course introduces the physical therapy management of people with cardiovascular, pulmonary and metabolic disorders across settings and the life span. Exercise testing/training, diagnostic testing and interpretation, pharmacological management, cardiovascular/pulmonary examination and interventions will be emphasized.

DPTR 5401 Musculoskeletal Conditions I 4.0 cr.
This course introduces the examination, clinical decision-making and physical therapy management of people with musculoskeletal disorders across the life span, focusing on the lumbar spine and lower quarter. Medical management, 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 and cerebral palsy. This course teaches clinical skills for examination, evaluation, and intervention across the lifespan and across settings. Therapeutic handling is emphasized.

DPTR 5631 Clinical Reasoning I 1.0 cr.
This course guides students in identifying gaps in clinical knowledge related to examination, intervention and prognosis for a variety of patient presentations, and applying clinical reasoning approaches to critically analyze areas of uncertainty for effective and efficient clinical decision-making.

DPTR 5721 Healthcare Delivery I 1.0 cr.
Basic overview of healthcare systems will be reviewed. Focus on the Colorado Physical Therapy Practice Act, state and federal laws related to physical therapists and support personnel. The continuum of care across settings and legal aspects of physical therapist documentation will be explored.
DPTR 6002 Clinical Anatomy II  3.0 cr.
A regional approach to gross and microscopic anatomy of the structures and systems of the abdomen and pelvis and in-depth study of upper and lower extremity arthrology. Includes cross sectional anatomy, radiographic and digital imaging.

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 pediatric, geriatric and gender specific conditions. Medical management, radiology and pharmacology are covered with implications for physical therapy interventions.

DPTR 6502 Neuromuscular Conditions II  2.0 cr.
In depth exploration of people with neurological pathologies across the lifespan, specific tests and measures, prognoses, and intervention approaches. Radiology and pharmacology as related to neuropathology are included.

DPTR 6102 Movement Science II  2.0 cr.
Application of movement science in physical therapy with emphasis on clinical movement analysis, tests & measures of activity, and patient/client management related to prosthetic and orthotic use.

DPTR 5162 Psychosocial Aspects of Care II  2.0 cr.
Builds on knowledge, skills and attitudes gained in DPRT 5131 with additional focus on general issues and specific theories related to: sexuality in rehabilitation, religion/spirituality, suicidal behavioral, health behavior change, stress management, and conflict resolution.

DPTR 6302 Medical Conditions II  2.0 cr.
This course introduces the physical therapy management of people with oncologic, metabolic, rheumatologic, and psychiatric disorders across settings and across the life span. Intensive care will also be introduced. Physical therapy examination and interventions, diagnostic testing, and pharmacological management will be emphasized.
DPTR 6403 Musculoskeletal Conditions III  
This course continues the examination, clinical decision-making and physical therapy management of people with musculoskeletal disorders across the life span, focusing on the cervical/thoracic spine and upper quarter. Medical management, radiology and pharmacology are covered with implications for physical therapy interventions.

DPTR 6503 Neuromuscular Conditions III  
Progression and synthesis of clinical skills, decision-making and reasoning (including use of frameworks and evidence) as applied the physical therapy management for people with neurological conditions across the lifespan. Applications to various settings including home, school, medical and community environments are explored.

DPTR 6612 Clinical Reasoning II  
This course progresses the proficiency of advanced clinical reasoning and decision-making skills for a variety of complex patient presentations. Developing and answering clinical questions related to examination, intervention and prognosis.

DPTR 6712 Professional Development II  
Explores the professional roles and responsibilities related to knowledge, skills and attitudes of the DPT. Extends beyond patient management to legislations, policy, advocacy, teamwork and collaboration and quality improvement. Discusses current issues and trends through our professional organization.

DPTR 7112 Applied Exercise Science  
This course will focus on complex patients with multi-system disease, including exercise prescription and chronic disability issues. Emphasis will be on clinical decision-making.

DPTR 6221 Advanced Differential Diagnosis  
Advances diagnostic skills with emphasis on clinical decision making to differentiate health conditions within the scope of physical therapy practice from those that require referral to other health care practitioners.
DPT 6303 Medical Conditions III 1.0 cr.
This course introduces the physical therapy management of people with integumentary disorders (e.g., wounds/burns) and medically complex disorders requiring transplantation and/or mechanical circulatory assist. Physical therapy examination and interventions, diagnostic testing and pharmacological management will be emphasized.

DPT 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.

DPT 6713 Professional Development III 1.0 cr.
Introduction to management and leadership in healthcare, including leadership styles and characteristics. Explores preparation for the clinical education internship and professional development opportunities following licensure including residency/fellowship, continuing education and the first position as a new professional.

DPT 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. The State Practice Act will be revisited, with focus on clinical application. Administration of physical therapy services including management, marketing, HR, risk management, and financial management.

DPT 7171 Health & Wellness 3.0 cr.
Review of population and individual health and wellness across the lifespan. Includes considerations of nutrition, obesity, diabetes, and age in promoting patient health and wellness; use of alternative medicine; health behavior change; implementation of wellness programs promoting healthy living for people across the health spectrum.

DPT 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 Advanced Patient Care 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 capstone course in the clinical reasoning sequence requires students to articulate and defend their decision-making process in the examination, evaluation, management, and outcome assessment for a selected patient seeking physical therapy services.
**CLINICAL EDUCATION**

**DPTR 5901 Integrated Clinical Experience I**

1.0 cr.

2-week clinical education experience providing initial exposure to clinical practice with emphasis on integration of didactic and clinical learning in psychomotor, affective, and cognitive domains.

**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 6912 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.

**IPED 5002 Interprofessional Education Development I**

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 in through team-based activities.

**Humanities**

A humanities session 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.