DPT – Curriculum

Year 1 – Summer

PT 6058 Anatomy for Physical Therapy
Study of gross human anatomy, and surface anatomy, for practice of physical therapy. Cadaver dissection of extremities, head, neck, back, abdomen, thoracic, and pelvic regions. Correlation to clinical conditions. Lecture, laboratory.

Year 1 – Fall

PT 6002 Ethics in Public Health: Research and Policy
Moral/ethical analysis skills development in the context of physical therapy research/practice. Ethical decisions in a practice and in professional training.

PT 6231 Clinical Biomechanics

PT 6280 Clinical Assessment
Clinical assessment techniques of transfer training, manual muscle testing, range of motion, gait analysis, physical/sensory examination, and anthropometrics. Basic intervention approaches, including stretching techniques and resistive exercise. Weekly integration assignments with first clinical clerkship. Lecture, discussion, lab.

PT 6213 Clerkship I
Practical aspects of clinical education and professional behavior. Psychological, sociological, and cultural needs of diverse patient populations. Students complete a three hrs./week clinical experience at either Jones Harrison Residence or Walker Methodist Health Center. Patient/therapist observations, activities tied to concurrent didactic coursework. Facilitation of group exercise, restorative ambulation, range of motion programs, and resident assessment instrument.

PT 6281 Scientific Foundations I: Theory of Exercise
Principles of skeletal muscle physiology as basis for therapeutic exercise. Exercise physiology and related microanatomy of musculoskeletal system as they relate to rehabilitation problems. Tissue response to treatment for loss of mobility. Endurance/strength training.

PT 6340 Human Growth & Development
Developmental process throughout life span. Theories of physical, motor, social, and personality development and what factors that influence a child’s development.

Year 1 - Spring

NSCI 6112 Medical Neurology for Professional Students
Survey of molecular, cellular, and systems neuroscience as related to medicine. Lecture/lab.

PT 8132 Research Seminar
Foundational course for the research series with exposure to the full investigational and reporting work cycle. Topics include review of literature, types and methods of reporting research, reference management and application of findings to clinical care.
PT 6310 Human Physiology for Physical Rehabilitation
This course covers muscle, cardiovascular, respiratory, gastrointestinal and renal physiology. An integrative, systems approach is used and normal function is emphasized

PT 6214 Clerkship II
Documentation of physical therapy exams, progress, and discharge services. Regulatory agencies responsible for outcomes/accreditation, third party reimbursement, coding, and peer review. Students complete three hrs./wk. clinical experience at either Jones Harrison Residence or Walker Methodist Health Center under supervision of clinical faculty. Observations/documentations, group exercise, restorative ambulation, range of motion programs, resident assessments.

PT 6221 Therapeutic Procedures
Theory/application of physical agents and therapeutic techniques. Therapeutic massage, ultraviolet radiation, thermotherapy, hydrotherapy, positive pressure devices, transcutaneous electrical nerve stimulation, neuromuscular electrical stimulation, biofeedback, iontophoresis, high volt pulsed current.

Year 2 - Summer

PT 6813 Cardiopulmonary Physical Therapy

PT 6250 Acute Care Physical Therapy
General care of the acute and critically ill patient including the disease and disorders common to the acute care environment and the integration of evaluation, treatment, and client management skills throughout the course.

PT 6251 Integument
Response of the integument to injury, disease, and aging. Emphasizes wound management, treatment, and rehabilitation of persons with acute/chronic integument disorders. Integrating elements of physiology, pathophysiology, and therapeutic procedures to evaluate, treat, and manage clients.

PT 8193 Research Problems
Process of developing/completing a scholarly project or literature review related to Rehabilitation Science/Physical Therapy education and practice. Students work directly with faculty participating in research in a guided small group experience. Type of project is determined by adviser.

PHAR 6800 Rehabilitation Pharmacology

PT 6252 Pathophysiology
General and organ system pathology that prepares the student for clinical practice by presenting complicating pathological factors that affect patients and the implications of the pathology on the patient’s clinical presentation.

Year 2 - Fall

PT 6283 Musculoskeletal Rehabilitation I
First of two-course sequence. Problem-solving approach to evaluating, testing, and preventing selected musculoskeletal conditions across the life span. Chart review, history taking, strength testing, functional testing, gait and posture examination, special orthopedic tests. Therapeutic exercises, orthopedic ambulation, joint mobilization, splinting, patient education.

PT 6293 Essentials of Rehabilitation Research
Predictive research, elementary statistical concepts, analysis of scientific literature. Tools to design experiments and analyze data acquired from student group projects. Design/statistical formats: risk analysis, multivariate regression analysis, designs of reliability studies, traditional group designs. Students give preliminary presentation of analysis to their peers.
PT 8193 Research Problems
Process of developing/completing a scholarly project or literature review related to Rehabilitation Science/Physical Therapy education and practice. Students work directly with faculty participating in research in a guided small group experience. Type of project is determined by adviser.

PT 6215 Clerkship III
Roles of physical therapist, in orthopedic outpatient setting, as educator and promoter of health/wellness. Students are assigned to a community outpatient orthopedic clinic. Patient evaluations/treatment. Instructing patients, therapists, student physical therapists, and community members to promote physical therapy, health, and wellness. Students assess, prepare, and provide educational experiences.

Year 2 - Spring

PT 6282 Scientific Foundations II: Neuromotor Control
Principles of neurophysiology, neurology, motor control, and motor learning as basis for therapeutic intervention in motor dysfunction. Practical application of kinesiologic electromyography and nerve conduction.

PT 6287 Neurorehabilitation
Assessment and rehabilitation of patients with neurological conditions (e.g., cerebral vascular disease traumatic brain injury, multiple sclerosis, Parkinson’s disease, amyotrophic lateral sclerosis). Using treatment procedures, orthotics, and equipment to improve function and prevent, stabilize, or decrease impairments.

PT 6284 Musculoskeletal Rehabilitation II: Assessment & Treatment
Second of a two-course sequence: Problem-solving approach to evaluating, treating, and preventing selected musculoskeletal conditions across life span. Includes instruction in subjective evaluation, postural and mobility assessment, special orthopedic tests, functional status assessments, therapeutic exercises for mobility, strength and coordination, joint mobilization, orthotic devices, and patient education.

Year 3 - Summer

PT 6288 Pediatric Rehabilitation

PT 6290 Administration
Learning experiences and special assignments related to physical therapy administration, management, supervision, consultation, private practice and current health care issues. This course will provide the student with the foundations for regulatory compliance and fiscal responsibility along with interpersonal skills required for the successful delivery of direct care service.
PT 6295 Clinical Internship I

PT 6296 Clinical Internship II
Second of four courses. Students must demonstrate proficiency in communication, team participation, evaluation/treatment, predicting outcomes, and managing patient diagnoses/problems. Selected specialty area of physical therapy practice.

PT 6297 Clinical Internship III
Third of four courses. Students must demonstrate proficiency in communication, team participation, evaluation/treatment predicting outcomes, and managing patient diagnoses/problems. Selected specialty area of physical therapy practice.

PT 6298 Clinical Internship IV
Fourth of four courses. Students must demonstrate proficiency in communication, team participation, evaluation/treatment predicting outcomes, and managing patient diagnoses/problems. Selected specialty area of physical therapy practice.