PP-DPT 45 UNIT TRACK CURRICULUM 2011-2012:

AHCJ 507 Pharmacology in Rehabilitation (3)
Principles of pharmacology as related to diagnosis, prevention, and treatment of disease-including a presentation of the pharmacology and therapeutic value of drug used in rehabilitation medicine. Related topics include pharmacokinetics, pharmacodynamics, adverse effects, drug interactions, and drug toxicity-with special consideration given to pediatric and geriatric pharmacology.

AHCJ 508 Current Issues in Basic Science (3) Elective
Studies the current issues in basic science as related to physical therapy. Topics may include current advances in biomechanics, cell and molecular biology, tissue engineering and transplants, pharmacology, and presentation of basic science research. Lecture and discussions of current literature.

AHCJ 516 Clinical Imaging (3)
Studies the etiology, pathogenesis, and clinical manifestations of selected bone and joint pathologies. Discusses current literature for selected pathologies.

AHCJ 518 Advanced Physiology I: Neurobiology (3)
Surveys cell and whole-body physiology. Includes physiology of the neuron and nerve conduction, molecular transport at the cellular level, cardiovascular and renal physiology, gastrointestinal physiology, endocrinology, and neurophysiology. Emphasizes muscles and neurophysiology as they relate to the cardiovascular, respiratory, and endocrine systems.

AHCJ 527 Medical Screening for Rehabilitation Professionals (3)
Screening for non-neuromusculoskeletal origins for the musculoskeletal complaints of patients who commonly seek rehabilitation. Particularly emphasizes components of the history and physical examination that suggest medical pathology requiring referral and/or physician consultation. Knowledge and skills related to screening for medical pathology in patients with musculoskeletal complaints of the lumbar spine, pelvis, lower extremities, thoracic spine, shoulder girdle, and upper extremities.

AHCJ 528 Lifestyle Health and Wholeness (3-4) Elective
Explores current lifestyle health and diseases, including: cardiovascular, metabolic, communicable, and nutritional. Explores concepts regarding risk factors, screening approaches, and risk reduction, focusing on their impact on specific health parameters. Addresses the universal problem of personal health and the influence of lifestyle on health and lifestyle disease. For the beginner as well as for the health professional who wishes to attain or maintain good whole-person health and freedom from disease by such natural means as minimizing the use of prescription drugs, food supplements, and diet fads. Presents specific lifestyle advice to attain these goals. Addresses disease prevention as well as treatment through whole-person lifestyle, evidence-based measures. A “whole-person” approach—mind, body and spirit—with a biblical perspective that explores the influence of the mind and the spirit/religiosity on lifestyle health. Additional project required for fourth unit.
AHCJ 551 *Professional Systems in Management (3)*
Administering the academic department: personnel selection, development, and evaluation; finance; team development; and leadership philosophies.

AHCJ 564 *Collaborative Learning in Higher Education (3) Elective*
Group guidance, theories of group-individual interaction, and the communication process. Educational orientation to the utilization of groups to enhance motivation, commitment, and learning.

AHCJ 605 *Critical Analysis of Literature (3)*
Evaluates the scientific literature, including critical evaluation of the rationale for the study; population inclusion/exclusion criteria; sampling and randomization techniques; sample size; appropriateness of the research design; choice of the data analysis; structure and content of tables and graphs; interpretation of statistical results; and applications to practice. Students evaluate research articles by answering questions posed by the instructor in a Web discussion board and virtual classroom. Students submit weekly evaluation papers for the articles discussed.

AHCJ 699 *Directed Study (3) Elective*
Individual arrangements for advanced students to study under the guidance of a program faculty member. May include reading, literature review, and/or other special projects. Minimum of 30 hours required for each unit of credit.

PHTH 515 *Topics in Rehab (3) Elective*
Advanced discussion and laboratories pertaining to current topics in rehabilitation. Current issues relative to patient rehabilitation occurring primarily in outpatient settings.

PHTH 541 *Advanced Clinical Practice I (3)*
Student demonstrates and practices advanced examination, assessment, and treatment of the lumbar spine, pelvic girdle, and lower extremities. Lecture and demonstration.

PHTH 542 *Advanced Clinical Practice II (3)*
Emphasizes skills utilized by clinical specialists in neurophysical therapy. Content based on the description of PHTH 541.

PHTH 543 *Advanced Clinical Practice III (3)*
Advanced clinical decision-making skills, with focus on patient classification, clinical-diagnosis practice parameters, and practice guidelines. Emphasizes development of clinical algorithms, clinical prognostic skills, and outcome measures.

PHTH 546 *Women’s Health Issues (3) Elective*
Clinical aspects of women’s health issues. How to develop a women’s health program in the clinical setting. Introduces various pathologies and treatment strategies for specific diagnoses that could be encountered in the clinical setting. Women’s health during adolescence, the reproductive years, and the geriatric years.
PHTH 549 Vestibular Rehabilitation (3) Elective
Physical therapy evaluation and treatment planning strategies for individuals with balance impairments due to neurological pathologies including central and peripheral vestibular dysfunction resulting in impairments, functional limitations, and disabilities. Emphasis is placed on the application and integration of theoretical constructs, evidence-based practice, examination, evaluation, diagnosis, prognosis, intervention, and measurement of outcomes.

PHTH 556 Cardiopulmonary Approaches to Assessment, Wellness, and Disease (3) Elective
Review of pathology, etiology, and clinical manifestations of cardiopulmonary disorders commonly encountered by the physical therapist. ECG interpretation and assessment. Practical strategies in the management of patients/clients at risk for chronic vascular disease. Comprehensive overview of the epidemiology, risk factor identification, assessment, and intervention to remediate or ameliorate risk and negative health effects of metabolic syndrome. Emphasizes evidence-based research to guide the development of assessment, prevention, and intervention strategies.

PHTH 629 Lower-Quarter Biomechanical Relationships (3)
Advanced examination procedures for performing a biomechanical assessment of the lower extremities. Emphasizes identifying the causes, compensations, and complications of movement dysfunctions associated with lower-extremity musculoskeletal-pain syndromes. Physical therapy management of gait abnormalities.

PHTH 630 Kinetics (3) Elective
Examines the mechanical basis of movement in the human body in relation to the length of muscles; the tension developed by muscles under various conditions; the anatomical arrangement of the origin and insertion of the bones and joints and the biomechanics of complex movement, such as gait and balance. Uses physics principles to explain the mechanics of movement, rotational movement, work and energy, muscle-length tension relationships, single and multiple joint biomechanics, and gait and balance.

RELR 525 Christian Leadership (3)
Christian principles of leadership in the community and in the practice of health care. Additional project required for fourth unit.