PHYSICAL THERAPY (PHYT)

PHYT 5000 Gross Anatomy
[4 credit hours (4, 0, 0)]
Students will study the structure of the human body using the struc-
tion-function relationship as the course paradigm. Musculoskeletal, vascular,
and peripheral nervous system anatomy will be emphasized, as will
the coordinated role of these structures, both locally and regionally, in
producing movement of the axial skeleton and extremities. Competencies
serve as a foundation for clinical science coursework, particularly in the
musculoskeletal and neuromuscular areas of practice.
Term Offered: Summer

PHYT 5020 Lifespan I
[2 credit hours (0, 0, 0)]
The first of two, this course examines typical lifespan development
from birth to adolescence. Emphasis is on theoretical constructs, gross
motor development, physical therapy examination, diagnosis, prognosis
and evaluation of findings. Also includes an overview of fine motor
development, cognitive development, reflex development, interaction with
families, public laws and child abuse.
Term Offered: Summer

PHYT 5050 Analysis of Movement
[4 credit hours (4, 0, 0)]
This course is an integrated study of applied biomechanics, kinesiology,
and anatomy as they relate specifically to the analysis of human
movement. Observational skills will be emphasized for analysing
human movement, although students will be introduced to the use of
other evaluation tools such as EMG motion analysis, and videography.
Progressing from simple movements to those that are more complex
and from normal to pathological, students will learn to integrate
observational skills with an understanding of musculoskeletal function
and neuromuscular control. Using cases of pathological conditions
student will practice hypothesis generation and identification of
examination data necessary for effective clinical reasoning. PhyT500
Gross Anatomy is a prerequisite and provides a foundation for the
objectives this course hopes to achieve.
Prerequisites: PHYT 5000 with a minimum grade of D- or PHYT 500 with a
minimum grade of D-
Term Offered: Fall

PHYT 5070 Neuroscience
[3 credit hours (0, 0, 0)]
An integrated study of structure-function relationship in the central and
peripheral nervous systems, emphasizing the neuromuscular control of
movement. Content serves as the foundation for discussion in PHYT508.
Term Offered: Spring

PHYT 5080 Neuroscience Seminar
[1 credit hour (0, 0, 0)]
Principles of neurophysiological and neuropathological sensory and
motor function will be applied to clinical manifestations of neurological
impairments commonly seen in PT settings. Procurement of basic
assessment skills for clients with neuromuscular impairments will
provide the clinical focus for integration of foundation neuroscience
information with clinical practice.
Term Offered: Spring

PHYT 5110 Clinical Pathophysiology I
[1 credit hour (1, 0, 0)]
Integrated study of physiological and pathophysiological processes
that influence the human body at the cellular, organ and systemic levels.
Emphasis on mechanisms of and clinical manifestations of common
diseases with discussion of potential impact on the delivery of PT
services. Content to serve as the basis for discussion of pharmacology in
subsequent courses.
Term Offered: Summer

PHYT 5120 Clinical Pathophysiology II
[3 credit hours (3, 0, 0)]
Second of 2 courses that address the integrated study of normal
physiological and pathophysiological processes in human body
at cellular, organ, and systemic levels - emphasizes on clinical
manifestations and impact on PT plan of care.
Term Offered: Fall

PHYT 5170 Evidence Based Practice I
[2 credit hours (0, 0, 0)]
Introduction to the principles of measurement and research design,
with an emphasis on critically evaluating the design of research studies
relevant to clinical practice.
Term Offered: Spring

PHYT 5180 Evidence Based Practice II
[2 credit hours (0, 0, 0)]
The second of a two course series on the principles of measurement and
research design, with an emphasis on the statistical analysis procedures
commonly used in clinical research. The critical evaluation and analysis
of research studies relevant to clinical practice will also be emphasized.
Term Offered: Summer

PHYT 5270 Applied Exercise Physiology
[3 credit hours (0, 0, 0)]
Exploration of exercise physiology principles as related to promotion of
PT patients/clients' health and wellness. Emphasizes physiological and
biochemical changes with exercise/training and exercise testing and
prescription for PT patients/clients.
Term Offered: Spring

PHYT 5280 Therapeutic Interventions I
[2 credit hours (0, 0, 0)]
The theory and practice of physical therapy in the acute care setting
as it relates to improvement of functional mobility, prevention of
complications, and preparation for next level of care.
Term Offered: Spring

PHYT 5290 Therapeutic Interventions II
[2 credit hours (2, 0, 0)]
Study of the theoretical basis for, and the application of thermal,
mechanical, and electrical modalities used for the PT management of
clients. Emphasis is on evidence-based practice, critical thinking, and
clinical decision-making using a case-based format, and review of the
scientific literature will be used in determining the most appropriate use
of modalities within a comprehensive PT plan of care.
Term Offered: Summer
**Physical Therapy (PHYT)**

**PHYT 5300 Principles of Therapeutic Exer**  
[2 credit hours (2, 0, 0)]  
Application of scientific principles in anatomy, applied biomechanics, and exercise physiology to develop sound therapeutic exercise procedures. Emphasis on development of skills associated with therapeutic exercise for patients with musculoskeletal and/or general movement dysfunction. Students will learn how to use and apply a variety of common fitness and rehabilitation exercise apparatus and develop appropriate PT treatment plans that include exercise for a given patient problem.  
**Term Offered:** Spring

**PHYT 5350 Intro to Examination**  
[2 credit hours (0, 0, 0)]  
Introduction to the physical examination process, including history-taking, systems review and screening. Emphasis on basic PT examination skills of the cardiovascular, musculoskeletal, and integumentary systems. Skills include: assessment of tolerance to functional activity (vital signs), posture, pain, peripheral pulses and edema; goniometry; and strength testing.  
**Term Offered:** Fall

**PHYT 5450 Foundations of PT**  
[2 credit hours (0, 0, 0)]  
Addresses the professional socialization process. Professional codes and guides of behavior will be discussed in relation to delivery of competent, ethical, legal and compassionate PT services. Topics include: therapeutic communication, cultural competency, stress management and conflict resolution. Introduction to basic principles of teaching and learning for the role of educator is included.  
**Term Offered:** Fall

**PHYT 5610 Orientation to Interprofessional Teaming**  
[1 credit hour (0, 0, 1)]  
Orientation to the Graduate Certificate in Teaming in Early Childhood. Focus on individual competencies needed to work collaboratively to meet the needs of young children with disabilities and their families.  
**Prerequisites:** SPED 5270 with a minimum grade of D-  
**Term Offered:** Summer

**PHYT 5620 Leadership and Advocacy in Interprofessional Teaming**  
[1 credit hour (0, 0, 1)]  
This second seminar in the Graduate Certificate in Teaming in Early Childhood focuses on skills and policies that promote best practices in teaming to support young children with disabilities.  
**Prerequisites:** SPED 5270 with a minimum grade of D- and PHYT 5610 with a minimum grade of D-  
**Term Offered:** Summer, Fall

**PHYT 5630 Evidence-Based Practice and Innovation in Interprofessional Teaming**  
[1 credit hour (0, 0, 1)]  
This third seminar in the Graduate Certificate in Teaming in Early Childhood provides students the opportunity to reflect on their practicum experiences in teaming to support young children with disabilities.  
**Prerequisites:** SPED 5270 with a minimum grade of D- and PHYT 5610 with a minimum grade of D-  
**Corequisites:** PHYT 5640  
**Term Offered:** Spring, Summer

**PHYT 5640 Practicum in Interprofessional Teaming**  
[2 credit hours (0, 0, 2)]  
The practicum is provides an opportunity to engage in interprofessional teaming in order to provide integrated services to young children with special needs in an inclusive setting.  
**Prerequisites:** PHYT 5620 with a minimum grade of D-  
**Corequisites:** PHYT 5630  
**Term Offered:** Spring, Summer

**PHYT 5650 Pharmacology of PT**  
[1 credit hour (0, 0, 0)]  
Integrated study of pharmacology that presents the pharmacodynamics and pharmacotherapeutics of common classes of drugs. Drugs covered include: anti-inflammatory, analgesic, muscle relaxant, psychotropic, anti-microbial, and diabetic medications. Emphasis on indications, contraindications, adverse drug reactions, and the implications for physical therapy care.  
**Term Offered:** Summer

**PHYT 5750 Clinical Reasoning**  
[1 credit hour (0, 0, 0)]  
Introduction to theoretical models that guide clinical decision making, including patient management, clinical reasoning, disablement, and evidence-based practice models. Documentation will be discussed as a tool to aid clinical reasoning.  
**Term Offered:** Fall

**PHYT 5850 Integrated Clinical Experience I**  
[2 credit hours (0, 0, 0)]  
The first of two full-time, integrated clinical education experiences. Students are engaged in clinical observation and supervised practice in a 4 week clinical education experience completed at the end of the first year of the DPT program. This course emphasizes the development of beginning skills in patient management, safety, clinical reasoning, and professional conduct in various clinical practice settings.  
**Term Offered:** Spring

**PHYT 5860 Clinical Practicum II**  
[2 credit hours (0, 0, 0)]  
Clinical observation and supervised application of advancing physical therapy skills at the same clinical facility as Clinical Practicum I. An emphasis will be on continued progression in the generic abilities and a more focused approach toward the development of specific technical, cognitive or affective areas in need of improvement as identified during Clinical Practicum I.  
**Term Offered:** Summer

**PHYT 6020 Lifespan II**  
[2 credit hours (0, 0, 0)]  
The principles of normal aging including the physiological, functional, and psychosocial changes associated with aging, and a review of diseases and disorders common to the aging population.  
**Term Offered:** Spring

**PHYT 6050 Hlth Care Policy and Delivery**  
[1 credit hour (0, 0, 0)]  
Overview of the origins and components of the American health care system and major policy initiatives that influence it. Access, cost, and quality factors in health care delivery will be explored. Serves as a starting point for the student’s study of the continuously expanding sector of the American economy in which they will practice.  
**Term Offered:** Spring, Fall
PHYT 6100 Health Promotion
[2 credit hours (2, 0, 0)]
Discussion and application of the elements of health and wellness as described by Healthy People 2010. Emphasis on health assessment, obesity, physical activity, nutrition, complementary/alternative management, and behavior modification strategies.
Term Offered: Fall

PHYT 6170 Scholarly Project I
[2 credit hours (0, 0, 0)]
The student will initiate the formal research process through refinement of a research/scholarly project proposal and, if necessary, submission of the proposal to the Institutional Review Board for human subjects for approval.
Term Offered: Fall

PHYT 6180 Scholarly Project II
[2 credit hours (0, 0, 0)]
Includes completion of data collection, analysis of the data, and initial preparation of a scholarly paper, in accordance with specific manuscript guidelines.
Term Offered: Spring

PHYT 6190 Scholarly Project III
[1 credit hour (0, 0, 0)]
Includes the final preparation of a scholarly paper which must meet the guidelines established by the College of Graduate Studies, and the oral defense/presentation of the scholarly project as required by the College of Graduate Studies.
Term Offered: Summer, Fall

PHYT 6260 Cardiovascular-Pulmonary PT
[3 credit hours (0, 0, 0)]
Integrative study of the role of PT in interdisciplinary management of patients with cardiovascular and/or pulmonary dysfunction. Application of skills associated with PT examination, evaluation, diagnosis, prognosis and interventions for patients with CV-P dysfunction.
Term Offered: Fall

PHYT 6460 Teaching and Learning
[2 credit hours (0, 0, 0)]
Study of a physical therapist's role as educator of peers, patients and families, community members, and students in the clinical setting. Emphasis on instructional design, instructional strategies, teaching methods, and evaluation of learning.
Term Offered: Fall

PHYT 6500 Musculoskeletal Rehab I
[3 credit hours (0, 0, 0)]
First of two courses, focused on the synthesis of principles of pathophysiology and screening and examination of musculoskeletal system. Emphasis on pertinent special examination techniques, principles of evaluation, PT diagnosis and prognosis, and intervention for the upper and lower extremities. Case-based discussion of role of common M-S pharmacological management, radiographic procedures and findings, and interpretation of special tests for diagnostic purposes.
Term Offered: Fall

PHYT 6510 Musculoskeletal Rehab II
[3 credit hours (0, 0, 0)]
Second of two courses, continued discussion of the principles of pathophysiology and musculoskeletal examination, evaluation, PT diagnosis and prognosis, and intervention. Emphasis on spine and lower quarter biomechanical examination and evaluation as it relates to lumbopelvic dysfunction. Includes discussion of: pharmacological management of inflammation and pain, and synthesis of radiological findings (radiographs, MRI, CT scans), as they relate to rendering PT diagnosis and prognosis.
Term Offered: Spring

PHYT 6600 Neuromuscular Rehab I
[3 credit hours (0, 0, 0)]
Theories and principles of client examination, evaluation, PT diagnosis, prognosis, and therapeutic intervention for clients with stroke and spinal cord injury. Historic and modern evidence-based treatment approaches for the neurologic patient, in general, will be discussed with emphasis on the approach’s influence in the design of a PT plan of care.
Term Offered: Fall

PHYT 6610 Neuromuscular Rehab II
[3 credit hours (0, 0, 0)]
Principles of rehabilitation for clients with chronic neuromuscular impairments and long-term disability. Emphasis on theories, philosophies, and the PT plan of care including examination, evaluation, and intervention strategies. Includes pediatric module.
Term Offered: Spring

PHYT 6700 Professional Issues
[1 credit hour (1, 0, 0)]
Prerequisite: PHYT685 Discussion of current events and issues faced by the profession of physical therapy as identified by the APTA and other pertinent sources, and as encountered during clinical education experiences.
Term Offered: Fall

PHYT 6720 Special Topics in PT
[2 credit hours (0, 0, 0)]
Intensive exploration of a topic related to the profession of physical therapy and designed to meet the student's special interest and professional goals. Subject matter will vary depending upon student interest.
Term Offered: Spring, Fall

PHYT 6740 Clinical Seminar I
[1 credit hour (0, 0, 1)]
First of a series of two courses, this course emphasizes the application of clinical skills learned in didactic coursework and begins to develop problem-solving and critical thinking for a variety of diagnoses and practice settings using a variety of patient scenarios. An emphasis is placed on evidence-based decision-making, basic evaluation, intervention planning, as well as beginning evaluation of one's own clinical reasoning processes and skills.
PHYT 6750 Clinical Seminar II
[1 credit hour (0, 0, 0)]
The second of a series of two courses, this course emphasizes the application of clinical skills and the integration of problem-solving and critical thinking for a variety of diagnoses and practice settings using a variety of patient scenarios. An emphasis is placed on evidence-based decision-making, comprehensive evaluation, progressive intervention planning, and evaluation of one's own clinical reasoning processes and skills.
Term Offered: Spring

PHYT 6850 Integrated Clinical Experience II
[5 credit hours (0, 0, 0)]
The second of two full-time, integrated clinical education experiences. Students are engaged in clinical observation and supervised practice in a 10 week clinical education experience completed at the end of the second year of the DPT program. This course emphasizes the development of intermediate skills in patient management, safety, clinical reasoning, and professional conduct in an inpatient or outpatient practice setting.
Term Offered: Summer

PHYT 6990 Independent Study in PT
[0-4 credit hours (0, 0, 0)]
In-depth exploration and study of clinically related problems or topic of interest. May be repeated for credit.
Term Offered: Spring, Summer, Fall

PHYT 7050 Practice Management
[2 credit hours (0, 0, 0)]
Examination of management and supervisory issues encountered in contemporary physical therapy practice. Discussion will include identification, analysis, and resolution of issues that compromise the delivery of effective and efficient PT services in a variety of practice settings. Topics include: organizational structure and behavior, human resources, finance and operations management, and marketing.
Term Offered: Spring, Fall

PHYT 7100 Integrated Patient Management
[4 credit hours (4, 0, 0)]
This course emphasizes an integrated and comprehensive approach to patient care for the management of complex cases with clinical ambiguity and that involve multi-system pathology or psychosocial dynamics. Patient cases will be presented to the students who are then expected to differentiate signs and symptoms of pathologies, determine patient “readiness” for PT management, develop and conduct a patient screen, design a PT plan of care, and determine a plan for discharge.
Prerequisites: PHYT 685 with a minimum grade of D- or PHYT 6850 with a minimum grade of D-
Term Offered: Fall

PHYT 7200 Scholarly Project IV
[1 credit hour (0, 0, 0)]
The course includes the final preparation of a scholarly paper including the oral defense/presentation and submission of the final paper to the Department of Physical Therapy.
Prerequisites: PHYT 617 with a minimum grade of D- or PHYT 6170 with a minimum grade of D-
Term Offered: Spring, Fall

PHYT 7260 Trauma Rehab
[2 credit hours (0, 0, 0)]
Integrated study of the principles of rehabilitation for clients who have sustained substantial trauma including, but not limited to: TBI, multiple fractures and burns. Students will be asked to integrate previous coursework in making decisions regarding the role of PT in the interdisciplinary management throughout the continuum of care for clients who have multi-system impairments due to physical trauma.
Prerequisites: Upper Division with a score of 1
Term Offered: Fall

PHYT 7780 Internship I
[5 credit hours (0, 0, 5)]
The first of two full-time, supervised internships completed following the culmination of the didactic portion of the DPT program. Students are engaged in supervised practice in a 10 week internship that emphasizes development toward entry-level PT competencies in all the components of professional practice and patient management in an inpatient or outpatient practice setting.
Term Offered: Fall

PHYT 7790 Internship II
[6 credit hours (0, 0, 0)]
The final full-time, supervised internship completed following the culmination of the didactic portion of the DPT program. Students are engaged in supervised practice in a 12 week internship that emphasizes development of entry-level PT competencies in all the components of professional practice and patient management in various clinical practice and specialty settings.
Term Offered: Spring

PHYT 77990 Specialty Internship
[4 credit hours (0, 0, 0)]
Extended period of supervised, advanced clinical practice and/or formal experience in administrative or professional organizational environments, which is designed to meet the student's special interests and professional goals.
Term Offered: Spring, Fall