

# PHYSICAL THERAPY (PHYT)

## PHYT 8800 Clinical Pathology 1 3 s.h.

Study basic concepts of clinical pathology, imaging, histology, and pharmacology used in Physical Therapists clinical decision making. Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment.

## PHYT 8801 Clinical Pathology 2 3 s.h.

Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment. 3 h.

## PHYT 8810 Human Gross Anatomy 6 s.h.

Knowledge of anatomy is essential in the practice of healthcare. In this course we will concentrate on the study of human gross anatomy, which includes the structure of the body and body parts that can be studied with the unaided eye. This course will include examination of the musculoskeletal, nervous and circulatory systems. This course will primarily encompass structural and functional relationships with clinical perspectives that relate to healthcare.  
**Prereq.:** BIOL 3705.

## PHYT 8901 Clinical Decision Making 1 4 s.h.

Decision-making process for clinical management of uncomplicated cases in practice patterns. Emphasis on posture and movement assessment, safety, body mechanics, and monitoring physiological status.

**Prereq.:** Admission to DPT program.

## PHYT 8902 Functional Anatomy 4 s.h.

Study of kinetics, kinematic variables, and mechanical properties of tissue; motion analysis: posture, gait and functional activities; environmental contexts and constraints, and life span applications.

**Prereq.:** Admission to DPT program.

## PHYT 8904 Integrated Clinical Education Experience 6 s.h.

Integrated first-time clinical education experience encompassing examination, evaluation, treatment, and documentation of patients in four distinct practice settings (Acute Care, Outpatient, Skilled Nursing, and Inpatient Rehabilitation). It is a full-time, 4-week experience based in a collaborative learning model in which a cohort of 3-4 DPT students will complete a 1-week rotation through each of the settings under the supervision and instruction of a licensed physical therapists. CPR certification (American Heart Association), required inoculations, annual physical exam, proof of health insurance, and any other requirements as set forth by the affiliating clinical sites.

**Prereq.:** All previous course work and permission of the DCE.

## PHYT 8905 Clinical Decision Making 2 6 s.h.

Decision making process for clinical management of both routine and less common cases in practice patterns. Emphasis on outcomes research, personnel supervision, individualized and culturally-sensitive intervention, and program design.

**Prereq.:** Admission to DPT program.

## PHYT 8906 Critical Inquiry 1 3 s.h.

Develop skills needed to create and answer clinical questions including: use of technology to obtain information: evaluation and application of the information for decision making. Examine the application of current literature to clinical decision making. Emphasis on written research communication methods: scientific writing, documentation and literature reviews. Examine the use of qualitative, quantitative and non-experimental research in health care that are used to inform physical therapy practices. Introduction of group research projects as a means of clinical inquiry.

## PHYT 8907 Special Topics: Pediatrics 3 s.h.

Theories of human growth and development and application to typical and atypical motor development and illnesses or injuries of children. Clinical management of cases across the practice patterns with emphasis on family/caregiver participation, team approach, and setting-specific expectations.

**Prereq.:** Admission to DPT program.

## PHYT 8909 Clinical Decision Making 3 6 s.h.

Evaluation of decision-making process for clinical management of complex and complicated cases. Emphasis on reimbursement, professional development, interprofessional activities, and program evaluation.

**Prereq.:** Admission to DPT program.

## PHYT 8911 Special Topics: Geriatrics 2 s.h.

Theories of life span development and human aging with application to systems development and dysfunction. Emphasis on prevention, well elderly, and illnesses/injuries common to the elderly. Clinical management of cases, considering functional goals; cognition; pharmacology; and reimbursement issues.

**Prereq.:** Admission to DPT program.

## PHYT 8913 Management and Leadership in Physical Therapy 2 s.h.

Theories of resource planning, management strategies for utilizing resources (human, information, fiscal, and space/equipment) for health care delivery, and clinical management issues in various physical therapy settings.

**Prereq.:** Admission to DPT program.

## PHYT 8914 Clinical Education 2 4 s.h.

Second clinical experience in evaluating and treating a diverse caseload of illness/injury prevention, posture and movement dysfunction, and specialty practice. Includes supervision of support personnel, interprofessional evaluation and treatment, and administrative tasks. Six week full-time experience. Grading is S/U.

**Prereq.:** Admission to the DPT program.

## PHYT 8916 Critical Inquiry in Physical Therapy 3 s.h.

Student groups will analyze datasets and write up manuscripts for the methods, results and some discussion. Groups will peer review these written reports. Student groups will then revise the report and design a clinically-related project based on the findings of the project. Emphasis will be given to formal research proposals, clinical applications, and resources for project implementation.

**Prereq.:** Admission to the DPT program.

## PHYT 8918 Professional Issues 2 s.h.

Discussion of professional topics related to entry-level practice, such as leadership, interagency and interprofessional collaboration, future trends and technologies, and opportunities for professional growth.

**Prereq.:** Admission to DPT program.

## PHYT 8919 Clinical Education 3 6 s.h.

Continuation of clinical experience in evaluating and treating a diverse caseload illness/injury prevention, posture and movement dysfunction, and specialty practice. Includes supervision of personnel, inter professional practice, administrative tasks, and effective time management. Nine week, full-time experience. Grading is S/U.

**Prereq.:** Admission to DPT.

## PHYT 8920 Clinical Education 4 12 s.h.

Final clinical experience in evaluating and treating a diverse caseload of illness/injury prevention, posture and movement dysfunction, and specialty practice. Collaborative client-oriented practice, professional conduct, and professional development. Fifteen weeks of full-time experience. Grading is S/U. 12 s.h.,

**Prereq.:** Admission to DPT program.

**PHYT 8921 Evidence Based Practice in Health Sciences 3 s.h.**

This course will help the student develop skills needed to formulate and answer clinical questions including: use of technology to obtain information, evaluation and application of the information for decision making needed to answer questions. Examine the application of current literature to clinical decision-making. Emphasis on written research communication methods: scientific writing, documentation and literature reviews.

**Prereq.:** Admission to DPT program, Admission to the PhD in Health Sciences.

**PHYT 8922 Research 1-6 s.h.**

Research under the supervision of a graduate faculty member. May be repeated for a total of six semester hours.

**Prereq.:** Admission to DPT program, and permission of instructor and department chair.

**PHYT 8923 Community Applications 3 s.h.**

Community-based project that encompasses the aspects of advocacy, collaboration, social responsibility, consultation and leadership, marketing/PR, and fiscal management.

**Prereq.:** Admission to the DPT Program.

**PHYT 8925 Applied Neuroscience for Physical Therapists 4 s.h.**

Introduction to the anatomy and physiology of the human central and peripheral nervous systems. Interaction and relationships between the various structures are described in order to understand movement, sensation and higher cortical functions. Structure is related to function through clinical case examples with an emphasis on the importance for physical therapy assessment and intervention.

**Prereq.:** Admission to DPT program.

**PHYT 8929 Clinical Decision Making 3: Advanced Cases 3 s.h.**

In-depth analysis of patient/client cases which includes pharmacology influences and diversity aspects. Differential diagnosis skills will be further developed in respect to each case. Evidence-based practice will be emphasized.

**Prereq.:** Admission to DPT program.

**PHYT 8933 Clinical Foundation Skills 3 s.h.**

Theories of professionalism in Physical Therapy practice including APTA/OPTA membership and benefits, fiscal responsibility, core values, professionalism, patient and professional advocacy, communication skills, safety, and healthcare compliance will be discussed. Basic patient assessment as it relates to anatomic principles will be taught and practiced and their clinical relevance will be reinforced.

**Prereq.:** Admission to DPT program.

**PHYT 8935 Epidemiology in Health Sciences 3 s.h.**

The course will discuss various research designs and appropriate statistics germane to epidemiology. Common measures of effect will be discussed with appropriate interpretation of these effects. The student will be expected to implement their knowledge of the subject by designing or redesigning a study specific to epidemiological principles within their area of interest.

**Prereq.:** Admission to DPT or PhD in Health Sciences program.

**PHYT 8938 Special Topics in Physical Therapy 1-5 s.h.**

Special interest physical therapy topics selected by the faculty which reflect current trends and issues in physical therapy practice. May be repeated as desired.

**Prereq.:** Admission to the DPT program.

**PHYT 8940 Interdisciplinary Health Care Delivery 3 s.h.**

Foundational knowledge and skills necessary for legal and ethical practice of pertinent healthcare disciplines (Physical, Occupational, and Speech Therapy, Dietetics, etc.). Emphasis is on legal principles and concepts; contract, business, and educational law; licensure and state practice acts. Emphasis is placed on ethical theory and ethical decision making approaches; and professional code of ethics. Global study of the delivery of healthcare in a broad spectrum view is provided. Emphasis is on the societal, economic, legal/ethical and cultural factors that influence healthcare. Multidisciplinary views of healthcare are considered.

**Prereq.:** Admission to Physical Therapy Program.

**PHYT 8941 Psychosocial & Cultural Aspects of Healthcare 3 s.h.**

Investigation into the psychosocial and cultural issues related to a variety of common clinical pathologies. The dynamic impact of the interaction between the patient/client and persons involved in their healthcare, professionals and caregivers will be considered. Topics of interest include mental, physical, behavioral, and cultural issues across the lifespan. Cultural theory and its applications to clinical interactions will be examined and integrated. Topics include cultural assumptions and patterns of health-related activity related to: disability, socioeconomic status, age, gender, ethnicity/race, sexual orientation, and religion.

**Prereq.:** Admission to Physical Therapy program.

**PHYT 8942 Mental and Behavioral Aspects of Healthcare 3 s.h.**

This course will examine various aspects of mental health and behaviors that may impact healthcare and wellness, both positively and negatively, using the ICF model. An in-depth examination of current theory and research associated with major psychological disorders taken from the DSM-IV will be reviewed. Discussions and current criticism of genetic factors, ethics, the healthcare system, and treatment options will be further examined. The student will develop a comprehensive understanding regarding therapeutic approaches towards mental health issues that can maximize health related outcomes.

**PHYT 8944 Clinical Decision Making 4-Part 1 3 s.h.**

Topics that integrate practice patterns (musculoskeletal, neuromuscular, cardiopulmonary, and integumentary) such as multiple trauma, burns, amputations, and critical care. Also includes complex cases within routine diagnoses, due to severity, chronicity or comorbidity. Emphasis on outcomes studies.

**Prereq.:** Admission to DPT.

**PHYT 8945 Clinical Decision Making 4-Part 2 3 s.h.**

Topics that integrate practice patterns (musculoskeletal, neuromuscular, cardiopulmonary, and integumentary) such as multiple trauma, burns, amputations, and critical care. Also includes complex cases within routine diagnoses, due to severity, chronicity or comorbidity. Emphasis on outcomes studies.

**Prereq.:** Admission to DPT.

**PHYT 8962 Mentored Instruction 3 s.h.**

Course is taken on an individual basis with an assigned faculty member during which the student assists in all teaching aspects of the undergraduate or entry-level course selected by the student. Individualized mentoring in the teaching-learning process is the focus of the course. Student will assist in course planning, syllabi construction, student facilitation, and student assessment.

**Prereq.:** TCED 6936 or equivalent.

**PHYT 8970 Scientific Writing in Health Sciences 3 s.h.**

PHYT 8970 will address four major areas of written communication for the scientific process: institutional review board, grant writing, thesis/dissertation, and writing for manuscript submission. This course will engage the student in the activity of writing clear and concise documents that are readable to large diverse audiences while remaining technically proficient. The course will address common pitfalls to written communication and will culminate in a project that is peer reviewed.

**PHYT 8990 Graduate Research in Health Sciences 1-6 s.h.**

PHYT 8990 is a graduate research experience that will allow the student the opportunity to contribute to research that is directed by an individual faculty mentor and refine their thinking on research design and implementation. This course will facilitate the student's formulation of a potential dissertation topic or provide opportunity to create foundational work for their dissertation. 1 -

**PHYT 8995 Dissertation in Health Science 1-9 s.h.**

PHYT 8995 is the culminating research experience of the Ph.D. program in Health Sciences. The student is expected to design, propose, conduct, analyze, report and defend a topic that is germane to their area of interest and expertise. This project should be meaningful and contribute to the body of literature in their profession. 1 -

**Prereq.:** completion of doctoral comprehensive examinations.

**PHYT 8800 Clinical Pathology 1 3 s.h.**

Study basic concepts of clinical pathology, imaging, histology, and pharmacology used in Physical Therapists clinical decision making. Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment.

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Topics that integrate practice patterns (musculoskeletal, neuromuscular, cardiopulmonary, and integumentary) such as multiple trauma, burns, amputations, and critical care. Also includes complex cases within routine diagnoses, due to severity, chronicity or comorbidity. Emphasis on outcomes studies.

**Prereq.:** Admission to DPT.

**PHYT 8945 Clinical Decision Making 4-Part 2 3 s.h.**

Topics that integrate practice patterns (musculoskeletal, neuromuscular, cardiopulmonary, and integumentary) such as multiple trauma, burns, amputations, and critical care. Also includes complex cases within routine diagnoses, due to severity, chronicity or comorbidity. Emphasis on outcomes studies.

**Prereq.:** Admission to DPT.

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PHYT 8995 is the culminating research experience of the Ph.D. program in Health Sciences. The student is expected to design, propose, conduct, analyze, report and defend a topic that is germane to their area of interest and expertise. This project should be meaningful and contribute to the body of literature in their profession. 1 -

**Prereq.:** completion of doctoral comprehensive examinations.