HP - Physical Therapy Graduate Program

Doctor of Physical Therapy Program
4063 Health Science Center

Program Director: John Greany, PT, Ph.D, RCEP, FAACVP
608.785.8461
Email: jgreany@uwлax.edu

Associate Program Director: Michele Thorman, PT, DPT, MBA
608.785.8466
Email: mthorman@uwлax.edu

www.uwlax.edu/grad/physical-therapy/

Physical therapists are health professionals educated at the doctoral level with expertise in the area of diagnosing and treating patients who have movement disorders. A professional doctoral degree involves extensive study over a wide range of courses integrating basic sciences with skilled professional practice. The practitioner must exhibit strong clinical skills and reasoning based on evidence-based rationale. Graduates will be able to enter practice with skills required to independently examine, evaluate, diagnose, render a prognosis, and assess outcomes for interventions in the management of impairments, functional limitations, and disabilities of the cardiopulmonary, musculoskeletal, neuromuscular, and integumentary systems. Graduates will also be able to provide health care that produces the best possible health outcomes and patient experiences for a reasonable cost. They must also be experts at advocating consumers, caregivers and the physical therapy profession.

The graduate-level professional curriculum is nine semesters long. Six semesters will emphasize classroom and laboratory learning and take place on the UWL campus. The final three semesters (36 weeks) will be comprised of internships that take place off-campus and culminate with students returning to campus for a debriefing session. The purpose of the internship is to allow students to be mentored by a master clinician to ensure that didactic knowledge translates into applied skill. Internship sites are selected based upon their learning environment. Clinical instructors are located nationwide. Program graduates must also pass the National Physical Therapy Examination administered by the Federation of State Boards of Physical Therapy to be licensed to practice as a physical therapist.

2017-18 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in June.

Professor
Dennis C.W. Fater Ph.D, PT, Cert MDT
Thomas Kernozek Ph.D

Clinical Professor
Paul Reuteman PT, DPT,MHS, OCS, LAT
Michele Thorman PT, DPT, MBA

Associate Professor
John Greany PT, Ph.D, RCEP, FAACVP
Thomas Greiner Ph.D

Assistant Professor
Patrick Grabowski PT, Ph.D, OCS,CSCS

Clinical Assistant Professor
Angela Binsfield PT, DPT
Heather Fortuine PT, DPT
Amy Taebel, PT, DPT, PCS

Research Lab Manager
Drew Rutherford, MS

Administrative Support
Pete Amann
Emilee Mielke
Shauna Salow
Angela Wiste

Graduate degree
• Doctor of Physical Therapy - DPT (http://catalog.uwlax.edu/graduate/programrequirements/physicaltherapy/dpt)

Courses

BIO/PAS/PTS 509 Cr.3
Human Gross Anatomy
A comprehensive consideration of human gross anatomy. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal and cardiopulmonary. Function, development, and topographic correlations are emphasized as a means toward evaluating clinical applications. Biomechanical function, topographic and clinical applications are emphasized. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS S10 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

BIO/PAS/PTS 510 Cr.3
Applied Human Gross Anatomy
A comprehensive consideration of human anatomy including both neuro-musculoskeletal components and internal organ systems. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal, and cardiopulmonary. The course provides an in-depth understanding of the gross anatomy of the human body through regional dissection. This understanding will then be demonstrated through the application of anatomy within clinical presentations. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS S09 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.
PTS 512 Cr.4  
**Medical Physiology**  
Emphasis upon physiological principles directly related to rehabilitation in a physical therapy practice setting and interaction of physiological systems during normal activities and after injury or disease. PTS students will be enrolled in a one hour per week discussion section. Prerequisite: admission to DPT Professional Program. Offered Summer.

PTS 517 Cr.1  
**Applied Physiological Regulation of Exertion and Disease**  
This course is designed to provide the student with an overview of the physiological basis of activity. The course emphasizes the various changes brought on by exercise to the normal and abnormal physiological systems. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 517. Offered Fall.

PTS 518 Cr.1  
**Motor Control, Motor Learning and Motor Development**  
This course will provide a theoretical and research evidence basis for normal movement via motor control, motor learning, and motor development literature. Students will formulate a basic understanding of what is known about typical control, learning and development of movement and how available knowledge applies to motor re-learning and control after lesion or injury. These concepts will be discussed with respect to multiple patient populations and atypical movement will be introduced. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 516. Offered Fall.

PTS 519 Cr.1  
**Applied Motor Control, Motor Learning, and Motor Development**  
This course will explore principles of motor behavior within the context of interactive labs. Principles of motor behavior (motor control, motor learning, and motor development) will be applied to both typical and atypical populations. Students will practice applying what is known about control, learning and development of movement to motor relearning and control after lesion or injury. These concepts will be discussed with respect to multiple patient populations and atypical movement will be introduced. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 518. Offered Spring.

PTS 520 Cr.1  
**Introduction to Physical Therapy Practice and Evaluation Techniques**  
This course is designed to expose the student to the multiple roles and professional behavior expectations of the physical therapist and gain insight into the importance of these roles in the context of today's health care system. This course will also introduce the student to the role of patient examination with emphasis on tests and measures related to palpation, goniometry and muscle strength testing. This course is concurrently taught with anatomy so students may apply knowledge of human anatomy to a clinical environment. Prerequisite: concurrent enrollment in PTS 521; admission to DPT Professional Program. Offered Summer.

PTS 521 Cr.2  
**Applied Introduction to Physical Therapy Practice and Evaluation Techniques**  
This course is taken concurrently with "Introduction to Physical Therapy Practice & Evaluation Techniques" (PTS 520). The applied experiences are designed to provide an opportunity to practice physical therapy examination with emphasis on tests and measures related to palpation, goniometry, and muscle strength testing. Prerequisite: concurrent enrollment in PTS 520; admission to DPT Professional Program. Offered Summer.

PTS 523 Cr.2  
**Physical Agents**  
This course provides an understanding of the physiological basis, scientific rationale for, and clinical application of, thermal, electrophysiology/electrotherapy, and electromagnetic physical agents. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 524. Offered Fall.

PTS 524 Cr.1  
**Applied Physical Agents**  
This course is taken concurrently with "Physical Agents" (PTS 523). The applied experiences are designed to provide an opportunity to practice the clinical application and clinical decision making of: thermal, electrophysiology/electrotherapy and electromagnetic physical agents. Strategies and techniques to manage pain, edema, soft tissue dysfunction, loss of motion and weakness through direct interventions will be covered. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 523. Offered Fall.

PTS 525 Cr.2  
**Biomechanics and Kinesiology of Movement**  
The principles and theories of the biomechanics of human motion will be presented to develop analytical skills needed to assess normal and abnormal movement. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 526. Offered Fall.

PTS 526 Cr.1  
**Applied Biomechanics and Kinesiology of Movement**  
This seminar course provides introductory activities used in the development of student analytical skills to enable the assessment of normal and abnormal movement from a biomechanical perspective. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 525. Offered Fall.
**PTS 527 Cr.3**

**Foundations of the Physical Therapy Examination**
This course is designed to instruct future clinicians on how to implement the examination/evaluation component of the Patient/Client Management Model of Physical Therapy. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 528. Offered Fall.

**PTS 528 Cr.2**

**Applied Foundations of the Physical Therapy Examination**
This course will emphasize the skills of obtaining a client history, performing a systems review and selecting and administering appropriate tests and measures that have been presented in "Foundations of the Physical Therapy Examination" (PTS 527). Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 527. Offered Fall.

**PTS 535 Cr.2**

**Functional Neuroanatomy**
This course will provide a detailed examination of the gross components associated with the central nervous system. This examination will be correlated with a review of the peripheral nervous system. Together, this information will be used to provide functional considerations of the nervous system that will then be used to explore the foundational basis for clinical applications in neurologic evaluation and interpretation. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 536. Offered Fall, Spring.

**PTS 536 Cr.1**

**Applied Functional Neuroanatomy**
This course will focus on the physical identification of structures associated with the central nervous system. This identification will occur through dissection, examination of stained sections and models, and through an overview of clinical imaging studies. These structures will be correlated with functional understandings to provide a basis for solving clinical relevant problem sets. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 1 courses; concurrent enrollment in PTS 535. Offered Fall, Spring.

**PTS 542 Cr.3**

**Research and Applied Statistics**
Specific quantitative research designs and statistics with an emphasis on clinical research is the focus of this course. The course will discuss methods for critically evaluating the literature based on the study design and statistical findings as well as their application to clinical practice. Students will build on course content developed in PTS 545. Students may not earn credit in both PTS 542 and PHY 423. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses. Offered Summer.

**PTS 543 Cr.1**

**Instrumentation for Human Movement**
Development of knowledge and skills necessary for interpretation of human movement data pervasive in contemporary physical therapy literature. Topics will include methods of data acquisition using a force platform, pressure platform, pressure insoles and mats, video based motion analysis, posturography and electromyography (EMG) as well as methods of processing, analyzing, and interpreting data. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 544. Offered Summer.

**PTS 544 Cr.1**

**Applied Instrumentation for Human Movement**
Development of practical skills and experience in collecting human movement data with instrumentation. Data analysis and written reports associated with the analysis of movement will be required. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 543. Offered Summer.

**PTS 545 Cr.1**

**Foundations of Clinical Research**
Research methodology with an emphasis on clinical research is the focus of this course. Methods for critically evaluating the literature, literature search strategies, ethics in research, issues of control, measurement and research design will be discussed. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 546. Offered Spring.

**PTS 546 Cr.1**

**Applied Foundations of Clinical Research**
Students will identify a gap in our knowledge base using primary literature and formulate a specific research question that could be answered using available resources. Students will develop a research proposal and oral defense of their research question, proposed methods, and expected clinical relevance. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 545. Offered Spring.

**OT/PTS 611 Cr.2**

**Pathophysiology**
This course will provide the student with information about the pathophysiology of various organ systems and physiological control mechanisms as they pertain to the practice of physical therapy. Emphasis will be placed upon the ability of the student to perform differential diagnosis in a physical therapy setting and to determine when further diagnostics may be indicated. Patient problems will be utilized to allow students to practice differential diagnosis and problem solving. Prerequisite: admission to graduate OT Program or PT Professional Program. PT students must have satisfactorily completed all PT didactic course work in fall 1 courses. (Cross-listed with OT/PTS; may only earn credit in one department.) Offered Spring.

**PTS 619 Cr.2**

**Early Intervention and Acute Care Physical Therapy**
This course teaches the principles of care and therapeutic interventions used to treat patients during acute care and early intervention. Principles relate to healing status, prevention of injury, and rehabilitation for functional mobility. Content will focus on health care communication, early care techniques, and durable medical equipment to support mobility in the inpatient environment, home, and community. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 620. Offered Spring.

**PTS 620 Cr.1**

**Applied Early Intervention and Acute Care Physical Therapy**
This course will emphasize skill development to support physical therapy intervention targeting Early Intervention and Acute Care. Students will practice health care communication techniques, the prescription and fit of durable medical equipment, and therapeutic techniques to support rehabilitation of functional mobility. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 619. Offered Spring.
**PTS 623 Cr.1**

**Integument System**
In this course, the student will build on basic skin anatomy, physiologic basis of skin nourishment and repair, and biomechanical stresses that can impact on the skin. Factors predisposing the skin to breakdown will be presented as will preventive measures where appropriate. The student will learn specific examination and intervention techniques utilized in treating specific integumentary conditions including burns, wound care, and amputations. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 624. Offered Summer.

**PTS 624 Cr.1**

**Applied Integument System**
In this course, the student will build on basic skin anatomy, physiologic basis of skin nourishment and repair, and biomechanical stresses that can impact on the skin. Factors predisposing the skin to breakdown will be presented as will preventive measures where appropriate. The student will learn specific examination and intervention techniques utilized in treating specific integumentary conditions including burns, wound care, and amputations. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 623. Offered Summer.

**PTS 625 Cr.3**

**Physical Therapy Management of the Cardiovascular/Pulmonary System**
This course focuses on normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies. Emphasis is placed on preventative measures and interventions for cardiac and pulmonary patients. Students evaluate current literature to support evidence-based practice and use a problem-solving approach to evaluate and manage patients. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 626. Offered Spring.

**PTS 626 Cr.1**

**Applied Physical Therapy Management of the Cardiovascular/Pulmonary System**
This course is taken concurrently with "Physical Therapy Management of the Cardiovascular/Pulmonary System" (PTS 625). The applied experiences are designed to provide an opportunity to practice examinations, evaluations, and interventions from cardiovascular, pulmonary and lymphatic cases and demonstrate psychomotor proficiency in each procedure. In addition, during this applied seminar the students are expected to integrate and synthesize information from a variety of problem solving experiences. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 625. Offered Spring.

**PTS 627 Cr.1**

**Therapeutic Exercise and Manual Therapy**
This course teaches principles of intervention techniques used to treat patients following injury or illness. Content will focus on techniques of manual therapy, flexibility, strength and power training and functional recovery. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 628. Offered Spring.

**PTS 628 Cr.1**

**Applied Therapeutic Exercise and Manual Therapy**
This course will emphasize the psychomotor skills utilized to perform the material presented in "Therapeutic Exercise and Manual Therapy" (PTS 627). Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses; concurrent enrollment in PTS 627. Offered Spring.

**PTS 631 Cr.2**

**Professionalism and the Ethos of Care**
Students will explore the ethics of professional practice, fiduciary relationships, the rights and duties associated with the patient/therapist relationship and the role character plays in ethical decision-making. In response to the underlying values of respect for society, self and others, students will also explore the psychosocial variables that impact on people with disabilities and their ability to cope. Course will emphasize serving diverse patient populations. Lect. 1, Lab 1. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 1 courses. Offered Fall, Spring.

**PTS 651 Cr.1**

**Fieldwork: Introduction to Clinical Learning**
A clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population. Students will gain experience with medical chart reviews, taking subjective patient histories, practicing early assessment and intervention skills, performing basic patient handling techniques and exploring the role of a physical therapist within the health care team. Patient population will vary according to clinical setting where student is assigned. Prerequisite: admission to DPT Program; in good standing in program (academic & professional behaviors); successful completion of all preceding didactic coursework; completion of all clinical education preparatory material described in course syllabus. Pass/Fail grading. Offered Winter.

**PTS 700 Cr.1-3**

**Selected Topics in Physical Therapy**
This course offers in-depth study of particular concepts, clinical specialties, and/or non-traditional practice areas in physical therapy. Topics are selected by the instructor and/or as developed by student/faculty dialogue to meet special interests and needs. Topics are relevant to physical therapy education, and are not found elsewhere in the university curriculum. Repeatable for credit - maximum six. Prerequisite: admission to DPT Professional Program. Pass/Fail grading. Offered Fall, Spring.

**PTS 701 Cr.1**

**Applied Adult Clinical Practice**
This course provides the students with supervised hands-on clinical applications working with adults with impairments and movement dysfunctions. Students will incorporate theory, evidence, foundational science, and clinical skills under the supervision of a physical therapist. Repeatable for credit - maximum two. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; PTS 751. Pass/Fail grading. Offered Fall, Spring.
PTS 702 Cr.2
Advanced Manual Therapy
This course will focus on the principles and techniques necessary to integrate all aspects of the patient client management model (including examination, assessment, prognosis, intervention) with specific attention to how manual therapy techniques may be utilized to enhance treatment outcomes for patients with musculoskeletal conditions. The course will also emphasize the instruction and implementation of the psychomotor skills needed to perform evidence-based manual therapy skills. The topics of this class will build upon the foundation of material already presented in the other musculoskeletal courses sequenced in the curriculum. Prerequisite: admission to DPT Professional Program. Pass/Fail grading. Offered Spring.

PTS 703 Cr.1
Clinical Anatomy Review
This course will provide a review of neuromusculoskeletal anatomy that would be useful to the new or practicing clinician. Specific attention will be paid to an anatomical examination of diagnostic and therapeutic procedures. The topics of this class will build upon the foundation of anatomical and clinical courses from discipline specific curriculum. Prerequisite: admission to DPT, OT, or PAS Program; or health career professional. Pass/Fail grading. Offered Spring.

PTS 709 Cr.1
Health & Wellness in Physical Therapy Practice
In this course students will focus on the role of the physical therapist in promoting principles of health and wellness for the purpose of risk identification and fitness promotion for individuals, groups, and communities throughout the lifespan by utilizing educational and prevention programs. Issues of health behavior, community access and efficacy of individual and group programs, and the development of health promotion programs will be explored. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses. Offered Fall.

PTS 710 Cr.1
Health & Wellness in Physical Therapy Practice
In this course, students will implement a community service learning project to promote health and wellness for the purpose of risk identification and fitness promotion for individuals, groups, and/or communities. Outcomes of the program will be assessed and presented. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses; PTS 709. Offered Spring.

PTS 711 Cr.2
Pharmacology
This course is designed to provide coverage of typical pharmacologic agents encountered in both inpatient and outpatient rehabilitation settings. Content includes pharmacodynamics, pharmacokinetics, biotransformation of drugs, and a consideration of the clinical application for a variety of classes of drugs. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses. Offered Fall.

PTS 712 Cr.1
Clinical Radiology
This course introduces students to the different modalities used in clinical radiography and the rationale for using one or more modalities when making an appropriate diagnosis. Students will be able to better comprehend radiographic anatomy in a manner relevant to diagnosis and treatment. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses. Offered Fall.

PTS 715 Cr.2
Musculoskeletal Evaluation and Treatment: Lower Extremity
This course will emphasize the implementation of the patient/client management model in the realm of musculoskeletal physical therapy of the lower extremity. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; concurrent enrollment in PTS 716. Offered Fall.

PTS 716 Cr.1
Applied Musculoskeletal Evaluation and Treatment: Lower Extremity
This course will emphasize the clinical skills included in the patient/client management model and application of the lecture material presented in "Musculoskeletal Examination and Treatment: Lower Extremity" (PTS 715). Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; concurrent enrollment in PTS 715. Offered Fall.

PTS 717 Cr.1
Clinical Teaching
Explores the knowledge and skills required by physical therapists to educate patients, family members, other health care providers, colleagues and future students. The role of a physical therapist as an educator will be thoroughly explored. The importance of becoming a lifelong learner will also be addressed. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; concurrent enrollment in PTS 718. Offered Fall.

PTS 718 Cr.1
Applied Clinical Teaching
Students will apply the knowledge and skills related to education of patients, family members, colleagues, other health care providers, and future students as discussed in the lecture portion of the course. The role of a physical therapist as an educator will be explored and practiced. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; concurrent enrollment in PTS 717. Offered Fall.

PTS 728 Cr.2
Musculoskeletal Evaluation and Treatment: Spine
This course will emphasize the implementation of the patient/client management model in the realm of musculoskeletal physical therapy of the spine. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 717. Offered Summer.

PTS 729 Cr.1
Applied Musculoskeletal Evaluation and Treatment: Spine
This course will emphasize the psychomotor skills included in the patient/client management model and utilization of material presented in "Musculoskeletal Examination and Treatment: Spine" (PTS 728). Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in spring 1 courses; concurrent enrollment in PTS 729. Offered Summer.

PTS 730 Cr.3
Pediatric Neurorehabilitative Physical Therapy
In this lecture-based course, students will gain and apply knowledge in screening, examination, evaluation and diagnosis, prognosis, plan of care and interventions for children with disabilities. Students will learn how to modify examination and interventions to match a child's age and developmental level. Student knowledge from previous courses will be applied. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses; concurrent enrollment in PTS 731. Offered Spring.
**PTS 731 Cr.1**  
**Applied Pediatric Neurorehabilitative Physical Therapy**  
In this lab-based course, students will gain psychomotor and affective skills in screening, examination, evaluation and diagnosis, prognosis, plan of care and interventions for children with disabilities. Students will learn how to modify examination and interventions to match a child’s age and developmental level. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses; concurrent enrollment in PTS 730. Offered Spring.

**PTS 733 Cr.3**  
**Health Care Systems & Administration**  
Primary emphasis of this course is to provide physical therapy students with practice management skills in the context of the U.S. health care system and an autonomous practice environment. Topics of study will include characteristics of the global and U.S. health care systems, reimbursement methods and insurance models, legal considerations, compliance regulations, fiscal management, marketing and development of professional referral relationships and development of business plans. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses. Offered Spring.

**PTS 735 Cr.2**  
**Adult Neurorehabilitative Physical Therapy**  
The course will emphasize the integration of neuroanatomy, neurophysiology, motor control, motor learning, and the physical therapy management of adults with neuromuscular disorders. Students will assess and integrate recommendations and evidence for the principles and practices of neurorehabilitation physical therapy. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; concurrent enrollment in PTS 736. Offered Fall.

**PTS 736 Cr.2**  
**Applied Adult Neurorehabilitative Physical Therapy**  
The course will emphasize procedures to support physical therapy management of adults with neuromuscular disorders. Students will practice the selection and application of tests and measures, treatment techniques, equipment prescription, and outcome assessment and recommendations. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses; concurrent enrollment in PTS 735. Offered Fall.

**PTS 737 Cr.2**  
**Musculoskeletal Evaluation and Treatment: Upper Extremity**  
This course will emphasize the implementation of the patient/client management model in the realm of musculoskeletal physical therapy of the upper extremity. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses; concurrent enrollment in PTS 736. Offered Fall.

**PTS 738 Cr.1**  
**Applied Musculoskeletal Evaluation and Treatment: Upper Extremity**  
This course will emphasize the clinical skills included in the patient/client management model and application of the lecture material presented in PTS 737 (Musculoskeletal Evaluation and Treatment: Upper Extremity). Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses; concurrent enrollment in PTS 737. Offered Fall.

**PTS 741 Cr.2**  
**Evidenced Based Practice in Physical Therapy**  
This course is intended to provide the learner with strategies to evaluate the evidence underlying physical therapy practice. Learners will utilize this evidence as a framework for determining best practice. Evidence based strategies include analysis of outcome measures used in physical therapy, interpretation and analysis of clinical prediction rules, and conducting focused systematic reviews of physical therapy interventions. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses. Offered Fall.

**PTS 742 Cr.1**  
**Research Practicum**  
Practical experience carrying out a research project under the guidance of the principal investigator(s). Students may be asked to participate in some of the following activities: search and critique the literature concerning the research problem, collect data, process, analyze and/or manage data, assist with statistical analysis, interpret results. Repeatable for credit – maximum two. Lab. 2. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in summer 2 courses. Offered Fall, Spring.

**PTS 743 Cr.1**  
**Evidence Based Practice Seminar**  
Seminar course focusing on the critical analysis of published clinical research related to Physical Therapy Tests and Measures. Students will select research papers and critique the sample utilized, research design, methodology and instrument employed, interpretation of statistical and practical results, discussion of applications to therapy and suggestions for further research. This course builds on content from PTS 545 and PTS 542. Oral and written presentations are required. Prerequisite: admission to DPT Professional Program; satisfactory completion of all didactic coursework in fall 2 courses. Offered Fall, Spring.

**PTS 751 Cr.2**  
**Fieldwork: General Practice**  
A clinically based learning experience where students will practice basic skill acquisition in real time. Fieldwork placements will be with a general practitioner/clinical instructor (CI). Consistent with the services that may be provided in a general practice, students may be expected to provide supervised therapy for less complicated patients in any supervised setting including but not limited to: acute care, extended care facility, home care, outpatient orthopedic, and pediatrics. Prerequisite: admission to DPT Professional Program; in good standing in program (academic and professional behaviors); completion of all clinical education preparatory material as described in the course syllabus; successful completion of PTS 651. Pass/Fail grading. Offered Summer.

**PTS 798 Cr.1-3**  
**Independent Study**  
Independent study of a special topic or problem related to physical therapy examination, intervention, diagnosis, prognosis, outcome assessment or professional practice. Physical therapy elective. Open to students after discussion with instructor. Repeatable for credit – maximum six. Prerequisite: admission to DPT Professional Program. Consent of instructor. Offered Occasionally.

**PTS 831 Cr.1**  
**Clinical Decision Making in an Inpatient Acute Care/Rehab Setting**  
This course introduces learners to clinical reasoning as a systematic process to assist practitioners in inferring or drawing conclusions about patient care in a rural environment. Prerequisite: admission to DPT Professional Program; successful completion of PTS 651 and PTS 751. Offered Fall.
PTS 851 Cr.6
**Internship: Inpatient-Acute/Rehab**
This course is the first in a series of three required physical therapy internships whereby the student is assigned to a clinical facility under the direction and supervision of a Physical Therapist Clinical Instructor. Clinical experiences will be representative of settings where physical therapy is routinely practiced. Examples of settings include, but are not limited to: acute care hospitals, rehabilitation centers, home-care, outpatient clinics, schools, skilled nursing facilities, and wellness centers. The collective outcome of all three 12-week internships will encompass patient experiences that ensure students are competent with management of patients across the lifespan and continuum of care. The patient management model will be applied to individuals with musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary problems. Prerequisite: admission to the DPT Program; in good standing in program (academic and profession behaviors); completion of all clinical education preparatory material as described in the course syllabus; successful completion of PTS 651 and 751. Pass/Fail grading. Offered Summer.

PTS 852 Cr.6
**Internship: Outpatient Orthopedic**
This course is the second in a series of three required physical therapy internships whereby the student is assigned to a clinical facility under the direction and supervision of a Physical Therapist Clinical Instructor. Clinical experiences will be representative of settings where physical therapy is routinely practiced. Examples of settings include, but are not limited to: acute care hospitals, rehabilitation centers, home-care, outpatient clinics, schools, skilled nursing facilities, and wellness centers. The collective outcome of all three 12-week internships will encompass patient experiences that ensure students are competent with management of patients across the lifespan and continuum of care. The patient management model will be applied to individuals with musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary problems. Prerequisite: admission to the DPT Program; in good standing in program (academic and profession behaviors); completion of all clinical education preparatory material as described in the course syllabus; successful completion of PTS 651 and 751. Pass/Fail grading. Offered Fall.

PTS 853 Cr.6
**Internship: Autonomous Practice**
This course is the third in a series of three required physical therapy internships whereby the student is assigned to a clinical facility under the direction and supervision of a Physical Therapist Clinical Instructor. Clinical experiences will be representative of settings where physical therapy is routinely practiced. Examples of settings include, but are not limited to: acute care hospitals, rehabilitation centers, home-care, outpatient clinics, schools, skilled nursing facilities, and wellness centers. The collective outcome of all three 12-week internships will encompass patient experiences that ensure students are competent with management of patients across the lifespan and continuum of care. The patient management model will be applied to individuals with musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary problems. Prerequisite: admission to the DPT Program; in good standing in program (academic and profession behaviors); completion of all clinical education preparatory material as described in the course syllabus; successful completion of PTS 651 and 751. Pass/Fail grading. Offered Spring.

PTS 854 Cr.1
**Capstone Project**
Hybrid course with online and campus-based classes focusing on development of a written manuscript (case report, systematic literature review, or research manuscript) with faculty mentoring and oversight. Scholarly writing consistent with journal submission guidelines is required. Prerequisite: admission to the DPT Professional Program; good academic standing; satisfactory completion of all didactic coursework. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.