Physical Therapy Courses

Courses

PT 5102. Surface Anatomy.
Students will identify bony landmarks, tendons, muscles, joint boundaries, and ligaments of the trunk, head, and extremities. This identification will be extended to include visualization of the locations and boundaries of deeper structures including bones, deep muscles, and internal organs.
1 Credit Hour
3 Total Contact Hour
3 Lab Hour
0 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT

PT 5103. Patient Care Skills.
Skill in basic patient care procedures will be acquired in this laboratory course. These include correct body mechanics, infection control, wheelchair and assistive device application, gait training, patient positioning and draping, transfer techniques including handling lines and tubes and assessment of vital signs.
1 Credit Hour
3 Total Contact Hour
3 Lab Hour
0 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT

PT 5104. Spanish Medical Terminology.
This course is designed to improve the fluency in specific Spanish Medical Terminology commonly used in physical therapy practice. (Students will be grouped according to level of proficiency.).
1 Credit Hour
1 Total Contact Hour
0 Lab Hour
1 Lecture Hour
0 Other Hour

PT 5105. Integrated Clinical Education.
Integrated Clinical Education This introduction to the clinical setting will assist students in integrating their didactic knowledge thus far in the curriculum into clinical practice. Acculturation to the profession is a key component of this course.
1 Credit Hour
5 Total Contact Hour
0 Lab Hour
0 Lecture Hour
5 Other Hour

PT 5204. Test and Measures.
Patient history, systems review, basic tests and measures are presented in this laboratory course. The basic tests include muscle performance, pain, range of motion and self care and home management.
2 Credit Hours
6 Total Contact Hours
6 Lab Hours
0 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT
**PT 5216. Research Methods for PT.**
Basic research methods, measurement protocols, and applied statistics, for the purpose of critiquing scientific literature are introduced. Research design (experimental and nonexperimental) and common statistical tests (parametric and nonparametric) are reviewed. The course emphasis is on the critique and application of research literature.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

**Major Restrictions:**
Restricted to majors of PT

**PT 5226. Design/Conducting Research PT.**
Designing and Conducting Research in Physical Therapy (2-0) Research proposal; written and oral presentation of research proposal to student's faculty advisor in preparation for PT 5346 and PT 5256.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

**Major Restrictions:**
Restricted to majors of PT

**PT 5233. Behavioral Science Topics.**
Behavioral Science Topics (2-0). Social and psychological factors governing therapeutic relationships with patients, including such topics as verbal and nonverbal communication, cultural competence, sexuality, and spirituality are introduced. Health behavior-change models and wellness theories are explored.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

**Major Restrictions:**
Restricted to majors of PT

**PT 5311. Modalities in PT Practice.**
Modalities in Physical Therapy Practice (2-3). Thermal, mechanical and electrotherapeutic modalities and techniques commonly used in physical therapy practice are studied. Therapeutic effects of heat, cold, light, water, and electricity are assessed, and practical applications of these modalities are demonstrated.

3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

**PT 5312. Pathophysiology in Rehab Sci.**
Pathophysiology in Rehabilitative Science (3-0). An in-depth evaluation of disease and injury processes across the lifespan and their relevance to therapeutic rehabilitation are presented. Attention is given to all major physiological systems.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

**Major Restrictions:**
Restricted to majors of PT
PT 5317. Neuroscience for PT.
Neuroscience for Physical Therapists (3-0) Normal and abnormal structures and functions of the nervous system across the life span with correlation of lesions to neurodysfunction and patient presentation. Laboratory fee required.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

Prerequisite(s): (PT 5406 w/C or better)

PT 5340. Management and Finance in PT.
Management and Finance in Physical Therapy (3-0). Management theory and fiscal discipline relevant to healthcare delivery as it relates to physical therapy are presented. Alternate means and sources of healthcare delivery are assessed, as well as administrative factors that impact care giving. Concepts and strategies applicable to the marketing and management of physical therapy practice are discussed. The principles and ethics underlying effective conflict resolution are emphasized.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 5401. Special Topics in PT.
An elective course that further investigates special topics in physical therapy evaluation and treatment techniques.

4 Credit Hours
0 Total Contact Hours
0-12 Lab Hours
0-4 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 5406. Human Anatomy for P Therapists.
Human Anatomy for Physical Therapists (2-6) Detailed study of the anatomy of muscles of the face, scalp and neck, the extremities, the trunk, the heart, the lungs, and the surface of the brain.

4 Credit Hours
8 Total Contact Hours
6 Lab Hours
2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 5407. Med Kines and Motion Analysis.
Medical Kinesiology and Motion Analysis (3-3). The kinematics and kinetics of the human body, postural control, and the basics of gait analysis are comprehensively studied. Biomechanical principles that control human movement are applied to motion analysis.

4 Credit Hours
6 Total Contact Hours
3 Lab Hours
3 Lecture Hours
0 Other Hours
PT 5413. Clinical Education in PT I.
This course is the 1st in a series of 4 full-time clinical experiences. A synthesis of applied knowledge acquired from the didactic curriculum applied to the physical therapy management of patients/clients is integrated in this clinical experience. Students are placed in a clinical setting that meets Doctor of Physical Therapy Program requirements. (8 weeks, full-time).

4 Credit Hours
21 Total Contact Hours
0 Lab Hours
0 Lecture Hours
21 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 5425. Clinical Education in PT II.
This course is the 2nd in a series of 4 full-time clinical experiences. A synthesis of applied knowledge acquired from the didactic curriculum and prior clinical experience applied to the physical therapy management of patients/clients are integrated in this clinical experience. Students are placed in a clinical setting that meets Doctor of Physical Therapy Program requirements. (8 weeks, full-time).

4 Credit Hours
21 Total Contact Hours
0 Lab Hours
0 Lecture Hours
21 Other Hours

PT 5443. Clinical Education in PT III.
This course is the 3rd in a series of 4 full-time clinical experiences. A synthesis of applied knowledge acquired from the didactic curriculum and prior clinical experiences applied to the physical therapy management of patients/clients is integrated in this clinical experience. Students are placed in a clinical setting that meets Doctor of Physical Therapy Program requirements. (8 weeks full-time).

4 Credit Hours
21 Total Contact Hours
0 Lab Hours
0 Lecture Hours
21 Other Hours

PT 6101. Special Topics in PT.
An elective course that investigates topics related to physical therapy.

1 Credit Hour
3 Total Contact Hour
3 Lab Hour
0 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT

PT 6108. Integument Patient Management.
A comprehensive review of the integumentary system concentrating on the prevention of integument disruption and management of patients with open wounds, burns, and other dermatologic disorders is presented. Attention is given to the examination of and intervention for integumentary conditions across the lifespan.

1 Credit Hour
3 Total Contact Hour
3 Lab Hour
0 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT
PT 6109. Imaging.
This course introduces the student to physical principles of imaging methods and provides a framework for interpreting medical images. Medical imaging systems include conventional X-ray, computed tomography (CT), magnetic resonance imaging (MRI), nuclear medicine (PET and SPECT), and ultrasound. Basic concepts in medical image processing and analysis, as well as medical applications, will be introduced.
1 Credit Hour
1 Total Contact Hour
0 Lab Hour
1 Lecture Hour
0 Other Hour

PT 6110. Integrative Seminar I.
Course work completed by the student across the first year of the curriculum is integrated in this seminar. Course work includes part-time clinical experiences. The student will take a comprehensive exam demonstrating their mastery of curricular content, permitting them to begin their second year of didactic coursework. Comprehensive case studies are presented to the student, who must demonstrate proficiency in patient management skills.
1 Credit Hour
2 Total Contact Hour
0 Lab Hour
1 Lecture Hour
1 Other Hour

Major Restrictions:
Restricted to majors of PT

PT 6111. Integrative Seminar II.
Course work completed by the student across the second year of the curriculum is integrated in this seminar. Course work includes part-time clinical experiences. The students will take a comprehensive exam demonstrating their mastery of curricular content, permitting them to go on their full-time clinical experiences. Comprehensive case studies are presented to the student, who must demonstrate proficiency in patient management skills.
1 Credit Hour
1 Total Contact Hour
0 Lab Hour
1 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT

PT 6116. PT Capstone Project I.
This is the first of two Capstone courses for Doctor of Physical Therapy (DPT) students. The Capstone courses will culminate in a completed study, a manuscript suitable for submission to a peer-reviewed journal, and a poster appropriate for presentation at a scholarly conference. The Capstone courses build upon relevant research content and experiences integrated across the DPT curriculum. By the end of the first Capstone course, students will complete a review of the literature, design a study, have data collection in progress, and begin to draft early components of the manuscript.
1 Credit Hour
1 Total Contact Hour
0 Lab Hour
1 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT

PT 6117. PT Capstone Project II.
PT Capstone Project II This course continues the scholarly project begun in PT 6116. All students must produce a manuscript suitable for publication in a faculty-approved peer-reviewed journal and a poster appropriate for presentation at a state or national conference.
1 Credit Hour
1 Total Contact Hour
0 Lab Hour
1 Lecture Hour
0 Other Hour

Major Restrictions:
Restricted to majors of PT
PT 6201. Law and Ethics in PT Practice.
Ethical principles and legal factors which influence healthcare in general and physical therapy practice in Texas are introduced.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

PT 6202. Professional Practice in PT.
Attributes, behaviors, and values embodied by physical therapists in the conduct of professional practice, including documentation skills, teaching and learning principles, and maintenance of effective therapeutic relationships are introduced.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6203. Differential Diagnosis.
An evaluation of the musculoskeletal, neuromuscular, cardiopulmonary, and integumentary conditions encountered by physical therapists, with emphasis on physical therapist diagnosis are presented. Recognition of signs and symptoms associated with various conditions beyond the scope of physical therapist intervention is developed, enabling the practitioner to make appropriate referrals.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

PT 6204. Special Topics in PT.
An elective course that investigates special topics related to physical therapy.

2 Credit Hours
6 Total Contact Hours
6 Lab Hours
0 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6205. Pharmacology in PT.
Foundational information concerning pharmacologic interventions and how drugs can be used as part of a comprehensive healthcare and rehabilitation regimen are the focus of this course.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

The neural, physical, and behavioral processes that govern human motor performance across the lifespan are studied. Theories of motor learning and relearning following trauma are emphasized, with attention given to how intervention and feedback variables impact the learning process. Factors that influence postural control during life are addressed.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours
PT 6210. Clinical Exercise Physiology.
Clinical Exercise Physiology This course focuses on the acute and adaptive physiological and metabolic responses to endurance and resistance exercise for normal and clinical populations. Physical therapists must understand the responses of the cardiovascular, pulmonary, neuromuscular, musculoskeletal, endocrine, thermoregulatory, and renal systems in order to perform safe exercise testing.

2 Credit Hours
4 Total Contact Hours
3 Lab Hours
1 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6211. Emerging Trends in PT.
Emerging Trends in PT This course focuses on emerging trends in the contemporary healthcare environment that are relevant to physical therapy practice. These include, but are not limited to, new technologies and evolving healthcare delivery models.

2 Credit Hours
2 Total Contact Hours
0 Lab Hours
2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6301. Special Topics in PT.
An elective course that investigates special topics related to physical therapy.

3 Credit Hours
9 Total Contact Hours
9 Lab Hours
0 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6302. PT Exercise Prescription.
PT Exercise Prescription This course focuses on physical therapy exercise prescription for healthy and clinical populations. Students will apply the physiological and metabolic concepts learned in the prior semester to the development and modification of safe and effective exercises.

3 Credit Hours
0 Total Contact Hours
0-3 Lab Hours
0-2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6304. Evidence-Based Practice in PT.
Evidence-based Practice in Physical Therapy (3-0). Concepts developed in Research Methods, with a focus on incorporating scientific evidence into physical therapy practice are continued. The student is exposed to the discipline of retrieving, evaluating, and incorporating the findings of scientific literature in the conduct of clinical practice. Students will focus on the critical evaluation of new information from research findings and integration of the best research evidence into clinical practice.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT
PT 6307. Cardiopulmonary Patient Mgmt.
This course provides theoretical and practical instruction for the evaluation and management of physical therapy patients with cardiovascular and pulmonary disorders. Emphasis is placed on the etiology and pathology of selected cardiopulmonary medical conditions, as well as the therapeutic management of patients with these conditions. Students will create a physical therapy plan of care for selected cardiovascular and pulmonary dysfunctions using diagnostic, pharmacologic, and clinical laboratory data. Concepts of health promotion and fitness are explored.
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

PT 6311. Musculoskeletal I.
This course focuses on the examination, evaluation, and management of patients/clients with surgical and non-surgical orthopedic conditions of the cervical, thoracic, and lumbar spines; temporomandibular joint, pelvis, sacroiliac and pubis joints including the management of orthotics.
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

PT 6312. Musculoskeletal II.
Musculoskeletal II: Lower Quarter Rehabilitation (2-3). This course focuses on the examination, evaluation, and management of patients/clients with surgical and non-surgical orthopedic conditions of the hip, knee, or foot/ankle, including the management of orthotics and prosthetics.
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6313. Musculoskeletal III.
Musculoskeletal III: Upper Quarter Rehabilitation (2-3). This course focuses on the examination, evaluation, and management of patients/clients with surgical and non-surgical orthopedic conditions of the shoulder, elbow, or wrist/hand including the management of orthotics and prosthetics.
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

PT 6314. Neuromuscular Rehabilitation I.
Building on anatomical knowledge presented in Neuroscience for Health Sciences, this course offers a systematic review of clinical disorders of the central and peripheral nervous systems, with emphasis on accompanying sensorimotor sequelae. Basic neurological tests and measures are introduced along with basic treatment interventions.
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT
The etiology and pathology of neurological and orthopedic dysfunction in the pediatric patient/client from birth through age 18 are presented. Emphasis lies in clinical application of examination and intervention for the pediatric patient in early childhood.

3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6401. Special Topics in PT.
An elective course that investigates special topics related to physical therapy.

4 Credit Hours
12 Total Contact Hours
12 Lab Hours
0 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of PT

PT 6414. Neuromuscular Rehab II.
Building on knowledge acquired in Neuromuscular Rehabilitation I, this course develops clinical approaches to the long-term management of pathology and trauma in neurologic patients. Using differential diagnosis, students develop the ability to identify neurologic disorders in real and simulated patients, with the goal of implementing an effective plan of care. Emphasis on clinical application.

4 Credit Hours
8 Total Contact Hours
6 Lab Hours
2 Lecture Hours
0 Other Hours

PT 6606. Clinical Education in PT IV.
This course is the 4th and final full-time clinical experience for the physical therapy student. Curricular objectives are culminated in a 12 week clinical experience in a setting that will advance the student's skills in a specific area of practice. Professionalism, autonomous practice, and evidence-based practice are emphasized in all practice settings. Students must integrate all aspects of patient and practice management skills within the individual's practice setting. (12 weeks-full-time).

6 Credit Hours
32 Total Contact Hours
0 Lab Hours
0 Lecture Hours
32 Other Hours

Major Restrictions:
Restricted to majors of PT