

PHYSICAL THERAPY- UNDERGRAD (PTBS)

PTBS 10100 Introduction to Physical Therapy (NLA)

An overview of the history of the physical therapy profession. Orientation to the responsibilities of a physical therapist and to the practice of physical therapy in a variety of environments, including musculoskeletal, neuromuscular, cardiovascular and pulmonary, integumentary, pediatric, and older adults will be discussed. Information regarding the representative professional association, clinical specialization, residency and fellowship will be presented. (F,S,Y)

1 Credit

PTBS 39900-39905 Selected Topics in Physical Therapy

Clinical and professional topics of current interest to faculty and students. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. Satisfactory/D/Failure only. 0.5-3 credits. (IRR)

0.5-3 Credits

PTBS 49900-49903 Independent Study (NLA)

This course, which requires a faculty sponsor, allows students to complete an in-depth study or project in an area of their interest related to physical therapy. Includes a final presentation. Prerequisites: Permission of faculty sponsor, academic adviser, department chair, and dean. May be repeated for a total of six credits. (F,S,Y)

1-6 Credits

PTBS 50000 Documentation for Physical Therapy (NLA)

Introduces written documentation of physical therapy services using the American Physical Therapy Association's Patient/Client Management Model and the International Classification of Functioning, Disability and Health Model. Topics include written documentation of initial examinations, progress notes, and discharges; legal guidelines; medical terminology; and electronic health record. (U,Y)

1 Credit

PTBS 50100 Human Anatomy (NLA)

Investigates the gross anatomical components of the human body through the use of lecture and cadaver dissection. Emphasis is placed on the musculoskeletal and neurovascular systems found in the extremities, trunk, chest, and abdominal walls, and in the head and neck. (U,Y)

6 Credits

PTBS 50200 Musculoskeletal I (NLA)

Application of the patient/client management model with emphasis on examination, evaluation, and diagnosis of musculoskeletal problems of the extremities. Emphasis is placed on the following skills: patient history, joint integrity and mobility, goniometry, muscle performance testing, flexibility testing, ligament testing, special orthopedic tests, and posture as it relates to the extremities. Prerequisites: PTBS 50100. (F,Y)

4 Credits

PTBS 50300 Soft Tissue Examination and Interventions (NLA)

This lecture and laboratory course examines various methods of soft tissue examination and intervention. It is designed to expose the student to a broad spectrum of techniques, while teaching the skills of the most commonly used methods. Some of the techniques are more scientifically evidence based than others. The course will emphasize critical assessment and foster the necessity for research-based analysis. The course is also designed to develop the student's palpation skills, including the examination and evaluation of soft tissue dysfunction.

Prerequisites: PTBS 50100. (F,Y)

2 Credits

PTBS 50400 Applied Biomechanics (LA)

Application of mechanical principles to human movement with particular attention to the effect of forces in producing normal movement. Students are required to apply their knowledge of anatomy to understanding individual joint function, as well as the integrated function of several joints during complex activities such as the normal gait. Prerequisites: PTBS 50100. (F,Y)

3 Credits

PTBS 50500 Professional Development II (NLA)

Introduction to the Practice Act, roles of paraprofessionals, professional and ethical behavior, and effective communication styles. Instruction in clinical education teams, models of clinical education, and assessment of clinical performance. Prerequisites: PTBS 51700. (S,Y)

Attributes: CP

1 Credit

PTBS 50600 Medical Screening I (NLA)

Explores the principles and interpretation of diagnostic testing. Includes radiologic interpretations of X-rays, Computed Tomography, MRI, Nuclear, ultrasound imaging and nerve conduction testing. Radiographic anatomy, densities, views, and structural analysis are taught using digital imaging. Uses patient cases to compare patho-structural diagnosis with actual symptoms and clinical presentation. Prerequisites: PTBS 50100. (F,Y)

1 Credit

PTBS 50700 Integrated Clinical Experience I (NLA)

Work with patients under the supervision of a faculty member. Apply knowledge and skills to assume appropriate responsibilities in direct patient care. (B,S,Y)

1 Credit

PTBS 50800 Evidence Based Practice I (NLA)

Explores how research literature can guide clinical decision making and form the basis for contemporary physical therapist practice. Emphasize how evidence is used to answer clinical questions that affect the examination process, evaluation procedures, and interventions commonly used by physical therapists. Examine the historical background for evidence based practice. Analyze the fundamental components of evidence based practice. Prerequisites: PTBS 50100. (S,Y)

3 Credits

PTBS 50900 Integrated Clinical Experience II (NLA)

This second clinical education experience provides students with an opportunity to work with patients under the supervision of a faculty member in a diverse experience. Students will apply knowledge and skills and assume appropriate responsibilities in direct patient care. Pass/Fail only. Prerequisites: PTBS 50700. (S,Y,B)

1 Credit

PTBS 51000 Joint Mobilization (NLA)

Lecture and laboratory course that provides an evidence based manual therapy approach toward evaluation and management of musculoskeletal conditions using joint mobilization. Emphasis will be on enhancing the student's clinical reasoning and manual therapy skills. Prerequisites: PTBS 50200 and PTBS 50300. (S,Y)
2 Credits

PTBS 51100 Therapeutic Exercise (NLA)

A comprehensive analysis of the scientific principles of exercise commonly used in physical therapy practice. Specific exercise programs will be discussed, as well as adaptations of tissue to activity and immobilization. Prerequisites: PTBS 50200 and PTBS 50400. (S,Y)
3 Credits

PTBS 51200 Acute Care (NLA)

Provides knowledge related to and skills required in the acute care setting. Develop competency in acute care evaluations, interventions, and discharge planning. Integrate curricular content to address the complex patient and dynamic environment encountered in acute care. Prerequisites: PTBS 51600. (F,Y)
2 Credits

PTBS 51300 Electrotherapeutic Modalities and Physical Agents (NLA)

Explores the biophysical, physiological, and clinical principles and procedures associated with the application of electromagnetic and acoustic energy in the clinical management of pathological conditions. Prerequisites: PTBS 50100. (S,Y)
3 Credits

PTBS 51400 Medical Screening II (NLA)

Builds on the principles introduced in Medical Screening I allowing the students to integrate these principles into an efficient and effective patient examination. A systematic approach to evaluating a patient's history and performing a systems review allows students to identify risk factors, red flags, visceral pain patterns, and constitutional symptoms that warrant a medical referral. Decisions for recommending lab tests or imaging are based on specific medical conditions and current appropriateness criteria. Prerequisites: PTBS 50600. (S,Y)
2 Credits

PTBS 51500 Health Care Systems (NLA)

This course familiarizes students with the basic constructs of the U.S. health care system, with emphasis on how system components influence patient referrals, delivery of care, reimbursement, and outcomes. Prerequisites: PTBS 40100. (S,B,Y)
1 Credit

PTBS 51600 Mobility Training (NLA)

Introduces patient/client care techniques related to mobility training including bed mobility, transfer training, gait training with a variety of assistive devices, elevation training, and wheelchair mobility. Familiarizes students with the initial steps in the patient-therapist relationship including professional behaviors and oral communication. Review of cardiovascular systems is also included. Develops the skills necessary to ensure the safety of both the patient/client and the student/therapist in a clinical environment. Prerequisites: PTBS 50100. (F,Y)
1 Credit

PTBS 51700 Professional Development I (NLA)

Introduces professionalism including professional and ethical behavior, as well as our professional organization. Develops effective listening skills. Prepares to teach in a variety of settings and formats for academic, clinical, and professional purposes. Includes teaching/learning theories and styles, ability to adapt teaching for a variety of audiences, domains of learning, instructional objectives, teaching methods, instructional technology, and feedback. Prerequisites: PTBS 50100. (F)
1 Credit

PTBS 51800 Pathology for Physical Therapists (NLA)

Examines the components of general disease and injury processes and specific components of selected diseases likely to be encountered in physical therapy practice. Describes general pathology topics including cell and tissue injury, inflammation, and the healing and repair process. Focuses specifically on diseases of the musculoskeletal, cardiovascular, pulmonary, integumentary, and nerve systems. Emphasizes understanding the underlying mechanisms of structural and functional disruptions for adults, with secondary comparisons to pathology across the life span. Provides background information necessary for performing differential diagnosis and patient treatments that will be taught in future coursework. Prerequisites: PTBS 50100. (F,Y)
3 Credits

PTBS 51900 Patient Care Skills I (NLA)

Introduces written documentation of physical therapy services using the American Physical Therapy Association's Patient/Client Management Model and the International Classification of Functioning, Disability, Patient care related to mobility training including bed mobility, transfers, gait with a variety of assistive devices, and stair climbing will also be introduced. (U,Y)
1 Credit

PTBS 52000 Patient Care Skills II (NLA)

Enforces patient/client care techniques related to mobility training including bed mobility, transfers, gait with a variety of assistive devices, and stair climbing that was taught in Patient Care Skills I and adds wheelchair management with hands-on practice. Familiarizes students with the initial steps in the patient-therapist relationship including professional behaviors, oral communication, and written communication. Develops the skills necessary to ensure the safety of both the patient/client and the student/therapist in a clinical environment. Introduces intraprofessional and interprofessional practice. Incorporates defensible documentation in a daily note, progress note, and discharge summary. Prerequisites: PTBS 51900. (F,Y)
1 Credit

PTBS 59000-59005 Selected Topics in Physical Therapy (NLA)

Clinical and professional topics of current interest to faculty and students. This course may be repeated for credit for different selected topics. Pre-requisites: As appropriate to topics. Pass/fail only .5-3 credits (IRR)
0-3 Credits

PTBS 59900 Honors Project (NLA)

For the exceptional student who wishes to pursue graduate research. Results will be summarized in a research proposal, which is a preliminary step toward a graduate thesis. Prerequisites: PTBS 41000; permission of department chair. Note: All undergraduates taking this course for graduate credit must satisfy the conditions listed under "Course Levels." 3 credits. (F,Y)
3 Credits