

PHYSICAL THERAPY (PT)

Explanation of Course Numbers

- Courses in the 1000s are primarily introductory undergraduate courses
- Those in the 2000s to 4000s are upper-level undergraduate courses that can also be taken for graduate credit with permission and additional work assigned
- Those in the 6000s and 8000s are for master's, doctoral, and professional-level students
- The 6000s are open to advanced undergraduate students with approval of the instructor and the dean or advising office

PT 5099. Variable Topics. 1-99 Credits.

PT 8201. Functional Anatomy. 5 Credits.

Human gross anatomy with cadaveric dissection. Clinical correlations. Normal structure and functional relationships. Common pathologies and individual and age-related differences examined.

PT 8202. Applied Physiology. 4 Credits.

Normal function of major organ systems of the human body and related rehabilitation concepts. Exercise testing, prescription, progression and expected outcomes examined. Effects of exercise in healthy individuals across the lifespan and in special populations.

PT 8203. Neuroscience in Rehabilitation I. 3 Credits.

Normal structure and function of the nervous system across the life span. Injury to neural structures and response to injury examined. Application of principles of neuroplasticity to clinical practice. Clinical correlations.

PT 8204. Movement Science I. 2 Credits.

Normal human movement, structure and function examined using biomechanics and kinesiology principles. Biomechanical function of musculoskeletal tissues explored with special emphasis on articular systems.

PT 8205. Movement Science II. 3 Credits.

Kinematics and kinetics of movement. Normal and pathological mechanics of functional movement, including deficits in musculoskeletal system, posture, and gait. Examination of complex activities such as locomotion.

PT 8206. Neuroscience in Rehabilitation II. 2 Credits.

Neurologic mechanisms of normal and impaired posture, mobility and extremity function examined. Application of motor learning and skill acquisition principles applied. Neurological examination using case studies and clinical correlates.

PT 8207. Clinical Medicine and Pharmacology. 4 Credits.

Systems approach to diseases requiring physical therapy. Pharmacological principles and impacts of certain pharmacological agents on physical therapy intervention. Drug interactions, systems review, and "red flags" requiring physician referral addressed.

PT 8208. Medical Imaging. 1 Credit.

Principles of medical imaging related to physical therapy management, including diagnosis and intervention planning.

PT 8271. Research in Practice. 3 Credits.

Critical appraisal of the literature related to the validity of research methods and interpretation of statistical results. Application of evidence to clinical practice as it relates to physical therapy examination, diagnosis, intervention, and prognosis.

PT 8272. Research Seminar. 3 Credits.

Evidence based analysis of physical therapy literature with application of principles of research design, data analysis and synthesis to evaluate outcomes within the context of patient management. Ethical considerations are addressed.

PT 8311. Foundations of Examination. 4 Credits.

Examination within the patient/client management model of physical therapy. Development of proficiency in basic systems review, selection and administration of tests and measurements, and diagnostic classifications.

PT 8312. Foundations of Interventions. 4 Credits.

Intervention within the patient/client management model of physical therapy. Development of proficiency in basic patient care skills and selection and administration of therapeutic exercise.

PT 8313. Therapeutic Modalities. 2 Credits.

Administration of physical, thermal, mechanical, and electrical interventions consistent with patient diagnosis and prognosis. Critical appraisal of the literature to apply best evidence to practice and clinical decision making.

PT 8314. Management of Cardiopulmonary Dysfunction. 4 Credits.

Physiology and pathophysiology of the cardiopulmonary system as basis for management of the patient/client with cardiopulmonary dysfunction. Examination, evaluation, diagnosis, prognosis and implementation of evidence-based interventions in all care settings. Focus on health promotion and wellness.

PT 8315. Management of Musculoskeletal Dysfunction I. 4 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for patients/clients with musculoskeletal dysfunction related to the extremities.

PT 8316. Management of Musculoskeletal Dysfunction II. 4 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for patients/clients with musculoskeletal dysfunction related to spinal dysfunction. Ergonomic principles used to address industrial health related issues.

PT 8317. Management of Integumentary Dysfunction. 1 Credit.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for patients/clients with integumentary impairments and functional limitations as well as peripheral vascular, metabolic, and immune system impairments.

PT 8318. Management of Neuromotor Dysfunction. 4 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for adults with neuromotor impairments and functional limitations.

PT 8320. Management of the Pediatric Client. 4 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions for the pediatric client. Selection and administration of outcome measures for children with neuromuscular and musculoskeletal dysfunction. Psychosocial, ethical and legal factors specific to the pediatric client.

PT 8321. Pelvic Health. 1 Credit.

Physical therapy management of pelvic health dysfunctions affecting reproductive, musculoskeletal, genitourinary, and GI-bowel health. Pelvic pain addressed.

PT 8322. Management of the Aging Adult. 2 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for the geriatric population. Typical age-related changes in function. Outcome measures for neuromotor, musculoskeletal, and cardiopulmonary dysfunction in the aging population. Comorbidities, psychosocial, ethical, and legal factors.

PT 8323. Prosthetics and Orthotics. 2 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for persons with functional limitations in need of assistive technology that enhances functional capacity of persons with functional limitations. Prescription, fabrication, and fitting of prosthetic and orthotic devices.

PT 8351. Professional Issues in Physical Therapy Health Care Management I. 4 Credits.

Professional practice expectations including legal and regulatory boundaries. Interdisciplinary health care team examined and significance of effective communication. Ethical issues related to physical therapy within the context of professional core values. Patient management models introduced along with evidence based practice.

PT 8352. Teaching in Physical Therapy Practice. 2 Credits.

Principles and strategies for effective teaching in academic and clinical environments. Patient/client, peer, and professional presentations.

PT 8355. Professional Issues in Physical Therapy Health Care Management II. 3 Credits.

Administration and practice management, including marketing, fiscal management, billing, reimbursement, and administrative procedures related to physical therapy practice. Introduction to health care policy as related to the profession of physical therapy. Policy development, macro and micro health policy and patient advocacy.

PT 8356. Health Promotion and Wellness. 1 Credit.

The role of the physical therapist in health promotion and disease prevention across the life span. Focus on screening, client education, and traditional and nontraditional strategies for the promotion of healthy lifestyles.

PT 8357. Capstone Seminar. 1 Credit.

Exploration of professional practice issues, including lifelong learning. Professional electronic portfolios presented. Assessment of educational experiences focusing on quality improvement and professional development.

PT 8361. Clinical Conference I. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice expectations and practice management issues.

PT 8362. Clinical Conference II. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice expectations and practice management issues.

PT 8363. Clinical Conference III. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice expectations and practice management issues.

PT 8364. Clinical Conference IV. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice expectations and practice management issues.

PT 8365. Clinical Conference V. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice expectations and practice management issues.

PT 8366. Clinical Conference VI. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice expectations and practice management issues.

PT 8383. Prosthetics and Orthotics. 2 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for persons with functional limitations in need of assistive technology that enhances functional capacity of persons with functional limitations. Prescription, fabrication, and fitting of prosthetic and orthotic devices.

PT 8402. Exercise Physiology. 2 Credits.

Lecture/laboratory. Effects of exercise in healthy individuals and special populations, including aged and immobilized patients and those with neuromusculoskeletal deficits.

PT 8403. Functional Anatomy. 5 Credits.

Lecture/laboratory. Human gross anatomy with cadaveric dissection. Clinical correlations. Normal structures and functional relationships. Common abnormalities and individual and age-related differences.

PT 8404. Kinesiology. 4 Credits.

Kinematics and kinetics of movement. Normal and pathological mechanics of functional movement, including deficits in musculoskeletal system, posture, and gait. Interventions and functional outcomes.

PT 8407. Medical Imaging. 1 Credit.

Principles of medical imaging related to physical therapy management, including diagnosis and intervention planning.

PT 8416. Management of Musculoskeletal Dysfunction II. 3 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for patients/clients with musculoskeletal dysfunction related to spinal dysfunction.

PT 8417. Management of Integumentary Dysfunction. 1 Credit.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for patients/clients with integumentary impairments and functional limitations as well as peripheral vascular.

PT 8420. Pediatrics. 4 Credits.

Lecture/laboratory. Development issues related to pediatric impairments and functional limitations. Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for children.

PT 8421. Women's Health. 1 Credit.

Lecture/laboratory. Physical therapy for issues related to women's health within the patient/client management model.

PT 8422. Geriatrics. 2 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for the geriatric population. Typical age-related changes in function. Outcome measures for neuromotor, mus.

PT 8423. Prosthetics and Orthotics. 2 Credits.

Examination, evaluation, diagnosis, prognosis, and implementation of evidence-based interventions. Selection and administration of outcome measures for persons with functional limitations in need of assistive technology that enhances functional capacity.

PT 8454. Health Promotion and Wellness. 1 Credit.

The role of the physical therapist in health promotion and disease prevention across the life span. Focus on screening, client education, and traditional and nontraditional strategies for the promotion of healthy lifestyles.

PT 8455. Administration and Management of Physical Therapy Practice. 2 Credits.

Administration and practice management, including marketing, fiscal management, billing, reimbursement, and administrative procedures related to physical therapy practice.

PT 8456. Health Policy and Advocacy. 1 Credit.

Introduction to health care policy as related to the profession of physical therapy. Policy development, macro and micro health policy.

PT 8457. Capstone Seminar. 1 Credit.

Exploration of professional practice issues, including lifelong learning. Professional electronic portfolios presented. Assessment of educational experiences focusing on quality improvement and professional development.

PT 8462. Clinical Conference II. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice.

PT 8463. Clinical Conference III. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice.

PT 8464. Clinical Conference IV. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice.

PT 8465. Clinical Conference V. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice.

PT 8466. Clinical Conference VI. 1 Credit.

Case-based seminars serve as integrative units throughout the curriculum. Clinical decision-making models applied to cases covering all physical therapy diagnostic practice patterns. Best practice and evidence-based practice emphasized. Professional practice.

PT 8481. Interprofessional Community Practicum. 1 Credit.

Students explore the concepts of community health, health prevention/wellness, cultural competence, continuous quality improvement, and team building through active participation in a university community health service learning project.

PT 8483. Integrated Clinical Experience I. 1 Credit.

Part-time physical therapy clinical experiences in a range of clinical settings. Supervised integration and implementation of components of the patient/client management model and professional practice expectations.

PT 8484. Integrated Clinical Experience II. 1 Credit.

Part-time physical therapy clinical experiences in a range of clinical settings. Supervised integration and implementation of components of the patient/client management model and professional practice expectations in preparation for full-time clinical in.

PT 8490. Externship Elective. 8 Credits.

Interested students can apply for consideration of an externship in advanced clinical practice, teaching, research, or governmental affairs. Credit varies based on the length of stay and demands of the externship.

PT 8491. Clinical Education Experience I. 5 Credits.

Full-time physical therapy clinical experience in various settings. Implementing all aspects of patient management and professional practice expectations for clients with non-complex/complex problems at advanced-beginner level. Prerequisites: PT 8483 and PT 8484 and successful completion of all comprehensive examinations.

PT 8492. Clinical Education Experience II. 8 Credits.

Full-time physical therapy clinical experience in various settings. Implementing all aspects of patient management and professional practice expectations for clients with non-complex/complex problems at advanced-intermediate/entry-level competence. Prerequisites: PT 8483, PT 8484, and PT 8491 and successful completion of all comprehensive examinations.

PT 8493. Clinical Education Experience III. 9 Credits.

Full-time physical therapy clinical experience in various settings. Implementing all aspects of patient management and professional practice expectations for clients of all ages with non-complex/complex problems at entry-level competence. Prerequisites: PT 8483, PT 8484, PT 8491, and PT 8492 and successful completion of all comprehensive examinations.

PT 8501. Advanced Topics in Manual Therapy for the Extremities. 1 Credit.

Primarily lab-based course incorporating an evidence-informed clinical reasoning process in the appropriate utilization of manual therapy techniques for various orthopedic conditions.

PT 8502. Considerations for Functional Foot Orthotics. 1 Credit.

Enhances clinical problem-solving through in-depth lower extremity biomechanical evaluation, with a specific focus on identifying candidates for functional foot orthotics.