

# Physical Therapy (PH\_THR)

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## **PH\_THR 1000: Introduction to Physical Therapy**

Acquaints students with the physical therapy profession including the required educational preparation, practice settings, sample interventions, current issues, trends and research. Graded on S/U basis only.

**Credit Hour:** 1

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## **PH\_THR 2500: Musculoskeletal Anatomy and Injury**

Study of human musculoskeletal anatomy, movement, common injury and physical therapy management. Graded on an A-F basis only.

**Credit Hours:** 3

**Recommended:** biology

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## **PH\_THR 2510: Human Anatomy for Rehabilitation Professionals**

System-based human anatomy. Musculoskeletal, Neuromuscular, Cardiovascular, Pulmonary, Integumentary. Lab includes three-dimensional identification of structures and instruction in common system-based physical exam procedures. Graded on A-F basis only.

**Credit Hours:** 4

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## **PH\_THR 3022: Principles of Physical Therapy**

History of physical therapy: the profession; basic skills: first aid, infection control, vital signs; medical terminology. Graded on S/U basis only.

**Credit Hour:** 1

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## **PH\_THR 4120: Clinical Education IA**

(cross-leveled with PH\_THR 7120). An introduction to clinical education in Physical Therapy: includes development of foundational clinical skills and behaviors as well as experience in the PhysZou clinical setting. Graded on S/U basis only.

**Credit Hour:** 1

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## **PH\_THR 4150: Clinical Education IB**

(cross-leveled with PH\_THR 7150). Continuation of Clinical Education IA with further emphasis on current events in Physical Therapy as well as the professional attributes of communication, teamwork and problem solving. Required experience in PhysZou clinical setting. Graded on S/U basis only.

**Credit Hour:** 1

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## **PH\_THR 4240: Applied Neurophysiology for Allied Health Students**

(Cross-leveled with PH\_THR 7240, OC\_THR 7240). Principles of basic neurophysiology, emphasizing correlation of structure and function of the nervous system.

**Credit Hours:** 3

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## **PH\_THR 4250: Human Kinesiology**

(same as HTH\_PR 4250). Study of principles of physical laws, biomechanics and anatomic structure relative to human movement. Applications through analysis of daily functional performance, exercise, and sport.

**Credit Hours:** 3

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**Prerequisites:** PTH\_AS 2201 or PH\_THR 2500

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## **PH\_THR 4270: Clinical Pathophysiology**

(Cross-leveled with PH\_THR 7270, OC\_THR 7270). Interdisciplinary and case-based examination of the pathophysiology, prevention and general health management of disease/injury across the lifespan encountered in occupational and physical therapy practice. Graded on A-F basis only.

**Credit Hours:** 3

**Prerequisites:** successful completion of prior professional coursework

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## **PH\_THR 4330: Physical Agents**

Biophysics, theory and technique concerning the use of physical agents as adjuncts to exercise programs. Includes thermal, electrical, light, hydrotherapy and mechanical agents.

**Credit Hours:** 3

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## **PH\_THR 4420: Foundations of Therapeutic Exercise**

Physiological basis of exercise throughout the lifespan with emphasis on the musculoskeletal, neuromuscular, cardiovascular/pulmonary and integumentary systems and the effects of injury and disease on these systems.

**Credit Hours:** 3

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## **PH\_THR 4520: Applied Therapeutic Exercise**

Application of therapeutic exercise with an emphasis on evidenced-based exercise prescription, modes and techniques of exercise typically seen in rehabilitation.

**Credit Hours:** 3

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## **PH\_THR 4620: Introduction to Orthopedic Physical Therapy with Laboratory**

Physical therapy diagnosis, management, and prevention of disorders of the musculoskeletal system; basics of orthopedic manual therapy. Includes laboratory.

**Credit Hours:** 3

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## **PH\_THR 4790: Pharmacology in Rehabilitation**

Principles of pharmacology including pharmacokinetics, pharmacodynamics, and toxicology of common drugs encountered in rehabilitation. Emphasis on pharmacology related to the musculoskeletal, neuromuscular, cardiovascular/pulmonary and integumentary systems across the lifespan.

**Credit Hours:** 2

**Prerequisites:** Restricted to students accepted into a professional major

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## **PH\_THR 4980: Clinical Evaluation and Procedures with Laboratory**

Principles and procedures of basic evaluation methods and documentation: muscle strength, range of motion, muscle balance, posture, neurologic tests. Includes laboratory.

**Credit Hours:** 3

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**PH\_THR 4981: Clinical Kinesiology with Laboratory**

Advanced Kinesiology addressing functional mobility; specifics of normal human gait; pathokinetics of gait. Assistive devices; wheelchairs; orthoses and prostheses. Includes laboratory.

**Credit Hours:** 3

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**PH\_THR 5110: Fundamentals of Physical Therapy**

Introduction to professional school and expectations, history of physical therapy; the profession, basic skills, first aid, infection control, vital signs, surface anatomy. Instruction includes lecture and discussion, lab activities, written assignments and practical examinations. Graded on S/U basis only.

**Credit Hour:** 1

**Prerequisites:** Admission to professional phase of doctor of physical therapy program

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**PH\_THR 5210: Applied Neurophysiology for Allied Health Students**

(Cross-leveled with PH\_THR 4240). Principles of basic neurophysiology, emphasizing correlation of structure and function of the nervous system.

**Credit Hours:** 3

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**PH\_THR 5220: Biophysical Agents**

Includes biophysics, theory and techniques concerning usage of biophysical agents as adjuncts to exercise programs. This entails the use of thermal, electrical, light, hydrotherapy, and mechanical agents.

**Credit Hours:** 3

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**PH\_THR 5230: Clinical Evaluation and Procedures with Laboratory**

Principles and procedures of basic evaluation methods and documentation: transfers, body mechanics, muscle strength, range of motion, muscle length, neurologic tests. Includes laboratory. Includes discussion with emphasis on critical thinking and clinical application through problem solving.

**Credit Hours:** 4

**Prerequisites:** Restricted to physical therapy students only

**Recommended:** Successful completion of prior professional coursework

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**PH\_THR 5240: Foundations of Therapeutic Exercise**

Physiologic basis of exercise throughout the lifespan with emphasis on the musculoskeletal, neuromuscular, cardiovascular/ pulmonary and integumentary systems and the effects of injury and disease on these systems.

**Credit Hours:** 3

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**PH\_THR 5250: Human Kinesiology**

(same as HTH\_PR 4250, OC\_THR 4220 or OC\_THR 7220). Study of principles of physical laws, biomechanics and anatomic structure relative to human movement. Applications through analysis of daily functional performance, exercise, and sport.

**Credit Hours:** 3

**Prerequisites:** Human Anatomy

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**PH\_THR 5260: Introduction to Clinical Education and PhysZOU I**

Introduction to the aspects of clinical education. Development of foundational clinical skills and behaviors, includes clinical experience in PhysZOU. This course is graded on a S/U basis only.

**Credit Hour:** 1

**Prerequisites:** Successful completion of prior professional coursework

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**PH\_THR 5310: Applied Therapeutic Exercise**

Application of therapeutic exercise with an emphasis on evidenced-based exercise prescription, modes and techniques of exercise typically seen in rehabilitation.

**Credit Hours:** 3

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**PH\_THR 5320: Clinical Kinesiology with Laboratory**

Advanced Kinesiology addressing functional mobility; specifics of normal human gait; pathokinetics of gait. Assistive devices; wheelchairs; orthoses and prostheses. Includes laboratory.

**Credit Hours:** 3

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**PH\_THR 5330: Clinical Pathophysiology**

(Cross-leveled with PH\_THR 4270) Interdisciplinary and case-based examination of the pathophysiology, prevention and general health management of disease/injury across the lifespan encountered in occupational and physical therapy practice.

**Credit Hours:** 3

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**PH\_THR 5340: Introduction to Clinical Education and PhysZOU II**

Continuation of Introduction to Clinical Education and PhysZOU I with further emphasis on current events in the Physical Therapy profession as well as the professional attributes of communication, teamwork and problem solving. Required experience in PhysZou clinical setting. This course is graded on a S/U basis only.

**Credit Hour:** 1

**Prerequisites:** Successful completion of prior professional coursework

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**PH\_THR 5350: Introduction to Orthopedic Physical Therapy with Laboratory**

The physical therapy management of musculoskeletal disorders. a systematic clinical decision making model is introduced that considers the stage of inflammation and repair, impairments, and the systematic anatomical structure. Lecture/Laboratory/ Written Examination/Practical Examination.

**Credit Hours:** 3

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**PH\_THR 5360: Pharmacology in Rehabilitation**

Principles of pharmacology including pharmacokinetics, pharmacodynamics, and toxicology of common drugs encountered in rehabilitation. Emphasis on pharmacology related to the musculoskeletal, neuromuscular, cardiovascular/ pulmonary and integumentary systems across the lifespan.

**Credit Hours:** 2

**Prerequisites:** Restricted to students accepted into professional major

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**PH\_THR 6000: Topics in Physical Therapy**

Organized study of selected topics in physical therapy, health and wellness, prevention of disease and disability, and the rehabilitation sciences. Specific content may vary from semester to semester.

**Credit Hour:** 1-99

**Prerequisites:** instructor's consent

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**PH\_THR 6010: Problems in Physical Therapy**

Independent study and development of a clinical or research paper, poster or workshop suitable for presentation in a symposium or conference. Specific plan individually developed with advisor. Journal reviews. Graded on S/U basis only

**Credit Hour:** 1-3

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**PH\_THR 6410: Clinical Education I**

Full time, supervised clinical experience addressing application of basic skills in patient evaluation and treatment, documentation and professional behaviors. Graded on S/U basis only.

**Credit Hours:** 5

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**PH\_THR 6510: Differential Diagnosis in Physical Therapy**

Evidence-based clinical decision making emphasizing health screenings and system review to determine physical therapy diagnosis/need for referral to other health care professionals.

**Credit Hours:** 3

**Prerequisites:** Restricted to students accepted into the professional major

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**PH\_THR 6520: Evidence-Based Practice**

This course focuses on improving students' knowledge and skills for asking clinical questions, accessing and appraising research evidence, and integrating research, patient preferences, clinical expertise, and context into clinical decision making.

**Credit Hours:** 3

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**PH\_THR 6530: Orthopedic Physical Therapy**

Physical therapy diagnosis, management, and prevention of disorders of the musculoskeletal systems; continuation of Introduction to Orthopedic Physical Therapy emphasizing physical therapy interventions. Lecture/Laboratory/Practical and Written Examinations

**Credit Hours:** 3

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**PH\_THR 6540: Pediatric Physical Therapy**

Physical therapy evaluation and treatment of children with movement dysfunction. Emphasis on therapeutic exercise.

**Credit Hours:** 4

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**PH\_THR 6550: PhysZOU III**

Clinical experience through PhysZOU clinic, in three clinical areas (orthopedic, pediatric, and neurologic). Each student will work as a team with students and a clinical instructor to develop, perform and document physical therapy sessions. Graded on S/U basis only.

**Credit Hours:** 0.5

**Prerequisites:** Successful completion of prior professional coursework

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**PH\_THR 6560: Rehabilitation of the Neurologically Impaired Adult**

Physical Therapy evaluation and treatment of adults who have incurred neurological deficits; emphasis on the restorative care of individuals following spinal cord injury, stroke, and traumatic head injury.

**Credit Hours:** 4

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**PH\_THR 6710: Case Management: Neurological Impairments Across the Lifespan**

Traditional and contemporary theories of physical therapy in advanced rehabilitation of children and adults with neurologic disorders; education/employment, ethical/legal issues; patient/client advocacy. Problem based format; laboratory.

**Credit Hours:** 5

**Prerequisites:** Restricted to students accepted into DPT professional major and successful completion of prior professional coursework

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**PH\_THR 6810: Case Management: Geriatrics and Orthopedics**

Complex orthopedic problems in persons of all ages; supervision, reimbursement, ethical/legal situations; community programs for injury prevention; work capacity evaluation/work hardening; consultation. Problem-based format; laboratory.

**Credit Hours:** 5

**Prerequisites:** Restricted to students accepted into DPT professional major and successful completion of prior professional coursework

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**PH\_THR 6820: Clinical Education III**

A continuation of supervised clinical education with supervision from a licensed physical therapist that has at least one year of experience. This course is a continuation of 7945 with advancing expectations of student physical therapist performance. Graded on S/U basis only.

**Credit Hours:** 6

**Prerequisites:** Successful completion of PH\_THR 7945

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**PH\_THR 6830: Health Policy for Physical Therapy**

This course is designed for physical therapy students and will provide an introduction to health policy along with an overview of the health care system in the United States, including its structures, financing mechanisms, and outcomes. Lecture/reflective writing/written exams. Graded on A-F basis only.

**Credit Hours:** 2

**Prerequisites:** Successful completion of prior coursework

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**PH\_THR 6840: PhysZOU V**

Clinical experience through PhysZOU clinic, in three clinical areas (orthopedic, pediatric, and neurologic). Each student will work as a team with students and a clinical instructor to develop, perform and document physical therapy sessions. Graded on S/U basis only

**Credit Hours:** 0.5

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**PH\_THR 6850: Professional Issues**

The physical therapist as health care professional, administrator, and educator; legal, ethical, and political issues. Service delivery management; delegation of care; rural vs. urban health care needs.

**Credit Hours:** 3

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**PH\_THR 7170: PHYSZOU IV**

Clinical experience through PhysZOU clinic, in three clinical areas (orthopedic, pediatric, and neurologic). Each student will work as a team with students and a clinical instructor to develop, perform and document physical therapy sessions. Graded on S/U basis only.

**Credit Hours:** 0.5

**Prerequisites:** Successful completion of prior professional coursework

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**PH\_THR 7190: PhysZOU VI And Professional Development Plan**

Clinical experience through PhysZOU clinic, in three clinical areas (orthopedic, pediatric, and neurologic). Each student will work as a team with students and a clinical instructor to develop, perform and document physical therapy sessions. Graded on S/U basis only. Prerequisites: Successful completion of prior professional coursework

**Credit Hours:** 0.5

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**PH\_THR 7250: Human Kinesiology**

(same as HTH\_PR 4250, OC\_THR 4220 or OC\_THR 7220). Study of principles of physical laws, biomechanics and anatomic structure relative to human movement. Applications through analysis of daily functional performance, exercise, and sport.

**Credit Hours:** 3

**Prerequisites:** Human Anatomy

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**PH\_THR 7420: Foundations of Therapeutic Exercise**

Physiologic basis of exercise throughout the lifespan with emphasis on the musculoskeletal, neuromuscular, cardiovascular/ pulmonary and integumentary systems and the effects of injury and disease on these systems.

**Credit Hours:** 3

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**PH\_THR 7480: Medical Testing in Rehabilitation**

Diagnostic test used by disciplines within and outside of physical therapy. Studies include laboratory, nuclear medicine, radiologic, and motion analysis. Emphasis placed on interpretation of results as they apply to physical therapy examination and intervention.

**Credit Hours:** 3

**Prerequisites:** Restricted to students accepted into professional major

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**PH\_THR 7550: Psychosocial Issues for Health Promotion**

Psychological and social factors impact people's health and the American Physical Therapy Association has called for interprofessional approaches for the provision of fitness, health promotion, wellness, and risk reduction programs to enhance quality of life for persons across the life-span. This course focuses on psychosocial issues for health promotion in order to help future health care providers and scientists to improve the health and well-being of people. Graded on A-F basis only.

**Credit Hours:** 2

**Prerequisites:** Restricted to students who are admitted into the Physical Therapy-DPT program

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**PH\_THR 7570: Bridging the Clinical-Research Gap**

This class focuses on theories of clinical decision making and Evidence-based Practice, their applications to the clinical setting and dissemination of such information to colleagues in professional forums. Graded on A-F basis only.

**Credit Hours:** 3

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**PH\_THR 7850: Assessment and Neuropsychology of Pain**

Pain is a common problem that impairs people's quality of life and costs millions of dollars annually. Yet, an investigation of physical therapy education programs in the U.S. supported inadequate coverage of pain. This course focuses on the assessment and neuropsychology of pain in order to help future health care providers and scientists to improve the health and well-being of people with impaired quality of life due to pain. Graded on A-F basis only.

**Credit Hour:** 1

**Prerequisites:** Restricted to students who are admitted into the Physical Therapy-DPT program

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**PH\_THR 7890: Case Management I**

Evaluation and team approach to physical therapy management in adult medical and surgical conditions: cardiopulmonary, rheumatic, oncologic, integumentary or wound care, including major burn injury. Psychosocial and ethical issues incorporated. Problem based; laboratory.

**Credit Hours:** 5

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**PH\_THR 7945: Clinical Education III**

Continuation of supervised clinical education. (Capstone course). Graded on S/U basis only.

**Credit Hours:** 7

**Prerequisites:** Successful completion of PH\_THR 7940

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**PH\_THR 7960: Special Readings in Physical Therapy**

Independent readings selected in consultation with supervising faculty member. Identified educational goals and activities; discussion, annotated bibliography or report.

**Credit Hour:** 1-3

**Prerequisites:** instructor's consent

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**PH\_THR 8080: Special Skills in Physical Therapy**

This course will offer a menu of options to students to develop additional knowledge about specific skills in the physical therapy profession. Students may choose topics of interest in addition to the mandatory sessions to meet a minimum of 800 minutes of contact. Graded on S/U basis only. Prerequisites: successful completion of prior professional coursework.

**Credit Hour:** 1

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**PH\_THR 8087: Seminar in Physical Therapy**

Integrate previously learned content in unique patient cases and comprehensive review and evaluation of readiness for entry level physical therapist practice, in both didactic and psycho-motor domains. Enrollment is limited to students in professional physical therapy program.

**Credit Hours:** 4

**Prerequisites:** departmental consent

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**PH\_THR 8945: Clinical Education IV**

A continuation of supervised clinical education with supervision from a licensed physical therapist that has at least one year of experience. This course is a continuation of 7945 with advancing expectations of student physical therapist performance. Graded on S/U basis only.

**Credit Hours:** 7

**Prerequisites:** Successful completion of PH\_THR 7945

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**PH\_THR 8950: Clinical Education V**

Full time supervised clinical education with supervision from a licensed physical therapist that has at least one year of experience. This course is a continuation of 8945 with advancing expectations of student physical therapist performance. Graded on S/U basis only.

**Credit Hours:** 6

**Prerequisites:** Successful completion of PH\_THR 8945

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