

**Physical Therapy DPT Curriculum – Hunter College
(Effective Spring 2016)**

**(Includes new course numbering effective Spring 2016 and
new course naming effective Spring 2018)**

Summer, Year # 1 (8 weeks)

Course Name	Credits	Class Hours
PT 701 Clinical Anatomy	4	6
PT 702 Medical Terminology	1	Online
Total	5	6 + online

Fall Semester, Year # 1 (15 wks)

Course Name	Credits	Class Hours
PT 703 Foundations of Patient Care	2	4
PT 704 Ethical and Psychosocial Dimensions of PT Practice	3	3
PT 706 Upper Extremity Kinesiology & Assessment	2	3
PT 707 Research Design and Methods	3	3
PT 708 Human Physiology and Exercise Physiology	5	5
PT 709 Physical Modalities: Clinical Decision Making & Application	3	4
Total	18	22

Spring Semester, Year #1 (15 wks)

Course Name	Credits	Class Hours
PT 740 PT Prevention & Intervention	4	6
PT 751 Structure and Function of the Nervous System	3	3
PT 752 Lower Extremity Kinesiology & Assessment	2	4
PT 755 Introduction to Clinical Education	1	2
PT 770 Directed Research I: Critical Inquiry	1	3
PT 780 Clinical Medicine for Physical Therapy	3	3
PT 790 Pulmonary PT	2	3
PT 795 Integumentary System: Assessment and Intervention	1	2
Total	17	26

Summer Semester, Year # 2 (8 weeks)

Course Name	Credits	Class Hours
PT 809 Directed Research II: Practicum	1	3 hrs, Online
Total	1	3

Fall Semester, Year # 2 (9 wks)

Course Name	Credits	Class Hours
* = course occurs in the first 9 weeks of the semester		
PT 803 Differential Diagnosis & Intervention in Clinical Orthopedics I *	2	3
PT 804 Introduction to Neurological PT *	2	5
PT 805 Musculoskeletal Examination and Interventions I *	3	6
PT 806 Clinical Experience I (Last 6 weeks of semester)	3	6 wks
PT 808 Differential Diagnosis in Neurological Evaluation *	1	3
PT 809 Directed Research II: Practicum (Continued from summer) *	0	Hr Arr
PT 811 Cardiac Rehabilitation *	2	5
PT 815 Acute Care PT *	1	3
Total	14	25 + 6 wks

Spring Semester, Year # 2 (15 weeks)

Course Name	Credits	Class Hours
PT 807 Proprioceptive Neuromuscular Facilitation	1	3
PT 810 Neurological Interventions I	3	5
PT 820 Clinical Orthopaedics II/ Radiology and Imaging	3	3
PT 830 Orthotics & Prosthetics	2	2
PT 840 Differential Diagnosis & Intervention in Clinical Neurology	3	3
PT 850 Musculoskeletal Examination & Intervention II	3	5
PT 882 Pediatric Development and Assessment	2	2
PT 888 Directed Research III: Presentation Tactics	1	3 hrs/week
Total	18	26

Summer, Year # 3 (10 Weeks)

Course Name	Credits	Class Hours
PT 886 Clinical Experience II	5	10 weeks
PT 887 Clinical Decision Making	1	3 hrs; Online
Total	6	10 wks

Fall Semester, Year # 3 (15 weeks)

Course Name	Credits	Class Hours
PT 870 Health Promotion Through the Lifespan	2	2
PT 872 Topics in Physical Therapy	1	2
PT 880 Neurological Interventions II	2	4
PT 881 Seminar on Departmental Organization & Management	3	3
PT 883 Pharmacology for PT & Systems Review	3	3
PT 884 Musculoskeletal Examination and Intervention III	3	5
PT 885 Electrodiagnosis & Motion Analysis	2	2
PT 895 Directed Research IV: Manuscript Preparation	1	3 hrs/week
Total	17	24

Spring Semester, Year # 3 (18 weeks)

Course Name	Credits	Class Hours
PT 889 Clinical Experience III	4.5	9 weeks
PT 890 Clinical Experience IV	4.5	9 weeks
Total	9	NA

Credits: **1st year: 40**
 2nd year: 33
 3rd year: 32
TOTAL CREDITS: 105

Summary of DPT Graduation Requirements

- Complete all required coursework as outlined in curriculum table with cumulative GPA at or above 3.0
- Two Professional Development Experiences (no credit) are required. This requirement can be fulfilled through participation in continuing education courses, attending American Physical Therapy Association state and national conferences, presentation of research at state and national conferences, completion of faculty-approved independent study, etc. Courses in different concentrations of PT are recommended.
- Completion of capstone project manuscript and presentation of capstone project to the program faculty and students.

Course Descriptions - Effective Spring, 2017

PT 701 Clinical Anatomy - 6 hours, 4 credits

This course is an in depth study of the human body, with emphasis on the neuromuscular and musculoskeletal systems. Structural interrelationships shall be examined as the basis for normal functions and a means to understand structural and functional dysfunctions. Clinical correlates to physical therapy are examined. Prerequisite: Acceptance into the Physical Therapy Program.

PT 702 Medical Terminology - Online, 1 credit

This programmed computerized self-study will provide students with the ability to analyze medical terms, define basic terms and abbreviations used in documenting health records and identify common terms related to diagnosis, therapies, and diagnostic tests. Prerequisite: Acceptance into the Physical Therapy Program.

PT 703 Foundations P.T. Care - 4 hours, 2 credits

This course serves as an introduction to the physical therapy profession and includes the history and scope of physical therapy practice. Fundamental physical therapy handling skills and massage techniques are introduced and practiced by the students. Documentation of physical therapy services is introduced. Prerequisite: Acceptance into the Physical Therapy Program.

PT 704 Ethical and Psychosocial Dimensions of PT Practice - 3 hours, 3 credits

This course examines the multifaceted role of the physical therapist in the health care delivery system. Introduces student to education theory and methodology and professionalism. Communication skills, written and oral, are reviewed and examined. Topics include Code of Ethics, Guide for Practice, direct access and reimbursement. Students are introduced to the purpose and process for evidenced-base practice. Prerequisite: Acceptance into the Physical Therapy Program.

PT 706 Upper Extremity Kinesiology & Assessment - 3 hours, 2 credits

The structure and function of joints and muscles will be reviewed for the upper extremities, head, and neck. Clinical applications for functional movement and biomechanical principles are incorporated in the course. Students learn the skills of manual muscle testing (MMT) and goniometry for the upper extremities, head, and neck. Prerequisite: Acceptance into the Physical Therapy Program.

PT 707 Research Design and Methods - 3 hours, 3 credits

Introduction to the scientific methods of inquiry, approaches to data analysis, types of experimental designs and their application to physical therapy research and practice. Prerequisite: Acceptance in the Physical Therapy Program.

PT 708 Human Physiology and Exercise Physiology - 5 hours, 5 credits

This course provides an overview of cellular structures and functions which regulates body homeostasis from the point of cell division and genetic control of protein synthesis. Prerequisite: PT 701

PT 709 Physical Modalities: Clinical Decision Making & Application - 4 hours, 3 credits

Principles and practical application of thermal, mechanical, electromagnetic and other energies in physical therapy is presented. This course is an introduction and comprehensive review of the physical modalities that are commonly employed in the physical therapy clinic for evaluation and treatment of various physical dysfunctions. Prerequisite: PT 701

PT 740 PT Prevention & Intervention - 6 hours, 4 credits

Students learn and practice basic concepts of mobility, ROM and stretching techniques. Application of therapeutic exercise to a broad population of clients from acute care to sports rehab are discussed and practiced including prevention and restoration of function. Therapeutic application of basic neurophysiological principles associated with strengthening are also presented and practiced.

Prerequisites: PT 706, PT 708

PT 751 Structure and Function of the Nervous System - 3 hours, 3 credits

This course provides an overview of microscopic, gross, and developmental anatomy of the human nervous system with emphasis on neurological process, structural and functional relationships. A local progression of information from molecular and cellular levels, to systems and regions provides a framework for students to understand neural organization. Prerequisites: PT 701, PT 708

PT 752 Lower Extremity Kinesiology & Assessment - 4 hours, 2 credits

The structure and function of joints and muscles will be reviewed for the lower extremities and trunk. Clinical applications for posture and gait evaluation are incorporated in the course. Students learn the skills of manual muscle testing (MMT) and goniometry for the lower extremities and trunk.

Prerequisites: PT 701, PT 708.

PT 755 Introduction to Clinical Education - 2 hours, 1 credit

This course is designed to introduce the student to the principles and theories of educational strategies. The student will apply education concepts to the various roles physical therapists serve when educating clients, families, caregivers, healthcare team members and when delivering formal presentations. This course also prepares the student for their first clinical experience. Prerequisites: PT 701, PT 703, PT 704.

PT 770 Directed Research I - 3 hours, 1 credit

To provide students with basic patterns of research from review of the literature to the design of an appropriate research project in the clinical physical therapy environment. Prerequisites: PT 701, PT 708.

PT 780 Clinical Medicine - 3 hours, 3 credits

This course provides an overview of disease and injury with an emphasis on conditions encountered in physical therapy. Student understanding of altered structural and physiological processes and how they apply to physical therapy assessment and treatment are expectations of this course. Prerequisites: PT 701, PT 708.

PT 790 Pulmonary PT - 3 hours, 2 credits

This course is designed to promote clinical reasoning skills in the examination, assessment, and intervention of patients with pulmonary dysfunctions. Issues related to pulmonary dysfunction will be explored in a laboratory format. Prerequisites: PT 701, PT 708.

PT 795 Integumentary System: Assessment & Intervention - 2 hours, 1 credit

The course focuses on evaluation and management of individuals with integumentary dysfunction. Anatomy and physiology of the skin is and the principles involved in normal wound healing are presented. Evaluation and management of individuals with burns and wounds based on clinical presentation will be covered in a lecture and practical format. Prerequisites: PT 701, PT 708.

PT 803 Differential Diagnosis & Intervention in Clinical Orthopedics I - 2 hours, 2 credits

This course is designed to promote clinical reasoning skills in the examination, assessment, and intervention of patients with orthopedic dysfunctions. Issues related to orthopedic dysfunction will be explored in a laboratory format. Prerequisites: PT 706, PT 740, PT 790.

PT 804 Introduction to Neurological PT - 3 hours, 2 credits

Foundations, examination, and interventions for the treatment of disorders of the Central Nervous System. Motor patterns of recovery and techniques as taught by Brunnstrom will be presented. Concepts of Motor Control and Motor Relearning Programs will enhance students' application of these techniques within the context of modern movement science. Prerequisites: PT 751, PT 752.

PT 805 Musculoskeletal Examination and Interventions I - 4 hours, 3 credits

Basic examination techniques utilizing selective tissue tension tests that will be applied to evaluate and diagnose lower extremity orthopedic conditions. Joint and soft tissue mobilization techniques and specific exercises will be applied as the Physical Therapy intervention for these diagnoses. Prerequisites: PT 740, PT 752, PT 780

PT 806 Clinical Experience I - 6 weeks full time, 3 credits

The first of four clinical internships in an acute care hospital setting or other setting appropriate for the objectives of this course. Under the supervision of a licensed physical therapist, the student will integrate and apply course work to provide quality care in the evaluation and treatment of patients with a variety of diagnoses. Prerequisites: PT 740, PT 752.

PT 807 Proprioceptive Neuromuscular Facilitation - 3 hours, 1 credit

The historical and theoretical framework of Proprioceptive Neuromuscular Facilitation (PNF) will serve as the foundation for learning these specialized hands on exercise techniques. Students will apply the principles for training of the trunk and extremity musculature to potential patients with musculoskeletal, neuromuscular and cardiopulmonary dysfunction. Prerequisites: PT 806.

PT 808 Differential Diagnosis in Neurological Evaluation - 2 hours, 1 credit

A system of testing peripheral, central and autonomic nervous system function will be presented with an emphasis on specificity and sensitivity of the tests. Assessment of clusters of signs and symptoms that are used in clinical problem solving will be addressed. Prerequisites: PT 740, PT 752.

PT 809 Directed Research II: Practicum - 3 hours, Online, 1 credit

Implement the research project at the designated locations and start data collection once all IRB approval(s) are in hand. Continue until data collection is completed. Prerequisites: PT 707.

PT 810 Neurological Interventions I - 5 hours, 3 credits

The course includes a description of the principles of rehabilitation, etiology of spinal cord injury and traumatic brain injury, anatomical and physiological considerations, and understanding of special problems faced by adults with physical disabilities, evaluation and treatment techniques, an understanding of adapted equipment and wheelchairs, evaluation of the home environment and appropriate modifications. Prerequisites: PT 808, PT 809.

PT 811 Cardiac Rehabilitation - 3 hours, 2 credits

The physical therapy management of individuals with cardiovascular dysfunction is covered in this course. Physical therapy evaluations and treatment approaches. Prerequisites: PT 701, PT 708.

PT 815 Acute Care Physical Therapy - 3 hours, 1 credits

This course is designed to introduce the student to the knowledge and skills necessary for a physical therapist to function in the acute care hospital setting. The student will be introduced to the various patient populations in the acute care hospital and the various roles and responsibilities of the physical therapist in this complex setting. Prerequisites: PT 740, PT 752, PT 780.

PT 820 Clinical Orthopaedics II / Radiology and Imaging - 3 hours, 3 credits

Etiology and therapeutic management of selected orthopedic conditions of the upper extremity. Introduction to radiology and many of the imaging techniques used in the diagnosis of soft tissue injuries and pathological conditions. Prerequisites: PT 808, PT 809.

PT 830 Orthotics & Prosthetics - 2 hours, 2 credits

This course is designed to orient the student to the role and responsibilities of the physical therapist in the field of prosthetics and orthotics. This course emphasizes advanced evaluation of normal and abnormal gait with implications for treatment intervention in order to prepare the student for working with amputees and patients requiring orthotics in the clinical setting. Prerequisites: PT 752, PT 805, PT 808.

PT 840 Differential Diagnosis & Intervention in Clinical Neurology - 3 hours, 3 credits

This course describes specific neurological systems and presents the clinical implications of disease or injury on each of these systems. Differential diagnosis of various peripheral nervous system and central nervous system disorders will be emphasized. The therapeutic management and scientific basis of various neurological conditions are addressed. Prerequisites: PT 804, PT 808.

PT 850 Musculoskeletal Examination II - 5 hours, 3 credits

Basic examination techniques utilizing selective tissue tension tests will be applied to clarify common upper extremity orthopaedic diagnoses. Joint and soft tissue mobilization techniques and specific exercises will be applied as the Physical Therapy intervention for these diagnoses. Splinting for hands will be introduced. Spinal pathophysiology, back, school, work hardening programs and ergonomics will be presented. Prerequisites: PT 752, PT 803, PT 805.

PT 870 Health Promotion Through the Lifespan - 2 hours, 2 credits

This course defines the role of physical therapy in health prevention, promotion, and wellness. Wellness throughout the life span is emphasized through incorporating the interrelationships between physical activity, stress, mind-body connections and nutritional health. Prerequisites: PT 806, PT 807, PT 809.

PT 872 Topics in Physical Therapy - 1 hour (min), 1 credit (Hours & credits may vary)

This required course will contain content as determined by the physical therapy faculty to enable the students to receive expanded content on one area of evidence based physical therapy practice. The topic can vary as determined appropriate by the faculty and of specific interest to students. Content can vary from semester to semester. This is a required course for a minimum of one credit, fifteen hours in the curriculum. A student may repeat this course as an elective. Prerequisites: None

PT 880 Neurological Interventions II - 4 hours, 2 credits

Foundations, assessment procedures, and application of classical therapeutic exercise with a neurophysiological basis for the treatment of adult and pediatric disorders of the Central Nervous

System, with emphasis on the techniques taught by the Bobaths (Neurodevelopmental Treatment). Prerequisite: PT 810.

PT 881 Seminar on Organization & Management - 3 hours, 3 credits

This course is designed to provide information and develop skills to manage an organized physical therapy service. There is an emphasis on effective management principles including organizational structure, human resource management, fiscal planning, department design, continuous quality improvement and risk management. The course will also describe the external environment of health care delivery, such as, government regulation, professional ethics and medical-legal issues.

Prerequisites: PT 806, PT 820, PT 840.

PT 882 Pediatric Development and Assessment - 2 hours, 2 credits

Through lecture, laboratory experiences, discussion, videos and assigned readings, the student will be able to examine and understand normal and abnormal human development; theory and practice of physical therapy assessment and intervention in developmental disabilities. Prerequisites: PT 706, PT 740, PT 752, PT 803.

PT 883 Pharmacology & Systems Review - 3 hours, 3 credits

This course provides an overview of previously covered physiology and pathophysiology of different body systems and provides rationale for use of drugs and other available treatments in different diseases. Indications, contraindications, side effects of commonly used medications used by patients receiving physical therapy services are presented. Prerequisites: PT 810, PT 850.

PT 884 Musculoskeletal Examination and Intervention III - 5 hours, 3 credits

Advanced management of the spine including selective tissue testing techniques. Selection of appropriate physical therapy interventions for individuals with spinal dysfunction (excluding spinal cord injury); ergonomics, joint and soft tissue mobilization; back exercise; and neural tension testing.

Prerequisites: PT 805, PT 820, PT 850.

PT 885 Electrodiagnosis & Motion Analysis - 2 hours, 2 credits

This course provides the student with the physiological basis and techniques of the electrodiagnostic evaluation of the neuromuscular system through the use of nerve conduction studies and needle electromyography. Students learn the application of these techniques to the upper and lower extremities, and the interpretation of results/reports through case studies. Surface and needle kinesiological electromyographic recordings for research application will be examined. Prerequisites: PT 810, PT 840.

PT 886 Clinical Experience II - 10 weeks, 5 credits

A 10 week affiliation in a facility that will serve to further refine and enhance student's skills while building on past clinical experiences. Prerequisites: PT 806, PT 840, PT 882.

PT 887 Clinical Decision Making – 3 hours, Online, 1 credit

This seminar will bring students together to integrate clinical decision making through case studies, case scenarios, administrative issues and the resolution of conflict within the workplace. Prerequisites: PT 806, PT 840, PT 850.

PT 888 Directed Research III: Presentation Tactics - 3 hours, 1 credit

Students will complete the research project and prepare a publishable manuscript. Prerequisite: PT 809.

PT 889 Clinical Experience III - 9 weeks, 4.5 credits

This is the third of four clinical internship placements throughout the curriculum. Prerequisites: PT 886, PT 888.

PT 890 Clinical Experience IV - 9 weeks, 4.5 credits

This is the fourth of four clinical internship placements throughout the curriculum. Prerequisites: PT 806, PT 840, PT 850.

PT 895 Directed Research IV: Manuscript Preparation - 3 hours, 1 credit

Strategies for effective presentation of research findings in a professional forum. Prerequisite: PT 888.