PT-Physical Therapy

PT 700. Human Gross Anatomy. 3 Hours.
A study of the anatomical structure of the human body includes limbs, back, abdominal wall and cavity. Specific emphasis includes regional study of the relationships between musculoskeletal, nervous, and vascular systems, joint structure, cardiovascular and pulmonary systems, and surveys of selected viscera. Includes surface anatomy.

PT 701. Human Gross Anatomy II. 2 Hours.
A study of the anatomical structure of the human body includes limbs, back, abdominal wall and cavity. Specific emphasis includes regional study of the relationships between musculoskeletal, nervous, and vascular systems, joint structure, cardiovascular and pulmonary systems, and surveys of selected viscera.
Prerequisites: PT 700 [Min Grade: C]

PT 702. Functional Anatomy. 4 Hours.
Integrated study of anatomy, kinesiology, muscle biology, and biomechanics to develop an understanding of and ability to analyze normal and pathologic human movement. Includes palpation and surface anatomy.

PT 704. Analysis of Human Movement. 3 Hours.
Study of human movement through an examination of the movement patterns during common motor skills (eg: walking). The kinematics and kinetics related to movement will be studied across the lifespan.
Prerequisites: PT 706 [Min Grade: C](Can be taken Concurrently)

PT 705. Human Movement Dysfunction. 3 Hours.
Study of human movement dysfunction including recovery processes related to injury, impairments associated with pathology and behavior and kinematic/kinetic descriptions of movement dysfunction related to cardiopulmonary, musculoskeletal, and neuromuscular pathology across the lifespan.
Prerequisites: PT 704 [Min Grade: C]

PT 706. Neuroscience I. 3-4 Hours.
A study of structures and functions of the human nervous system with emphasis on sensory/motor function.
Prerequisites: PT 730 [Min Grade: C]

PT 707. Neuroscience II. 3 Hours.
Study of the theories of motor control and motor learning will serve as a foundation for the understanding how the CNS is organized in relation to human movement.
Prerequisites: PT 706 [Min Grade: C]

PT 711. PT Examination I. 2 Hours.
Introduction to the physical therapy examination process. Emphasis on exploring the human movement system as the foundation of patient/client management.

PT 712. Physical Therapy Examination II. 3 Hours.
Continuation of Physical Therapy I with focus on knowledge and skills needed to test and measure strength, range of motion, and posture.

PT 713. Physical Therapy Intervention I. 3 Hours.
Introduction to the components and process of physical therapy intervention. Emphasis on beginning communication & documentation skills and basic procedural interventions of patient transfers, gait with assistive devices, superficial physical agents, massage, and passive range of motion. Overview of major categories of procedural interventions utilized by physical therapists.
PT 741. PT Management of Musculoskeletal Dysfunction II. 5 Hours.
Application of biological and physical sciences in understanding musculoskeletal disorders. Diagnosis of common musculoskeletal dysfunctions; clinical decision making concerning treatment and prevention of musculoskeletal disorders. Medical and surgical diagnostic and treatment procedures with implications for rehabilitation. Focus for one course is on the lower quarter and the thoracic spine; focus of the other course is on the upper quarter.
Prerequisites: PT 740 [Min Grade: C]

PT 743. PT Management of Cardiopulmonary Dysfunction. 4 Hours.
Physical therapy examination, evaluation, diagnosis, prognosis, and intervention for patients with primary and secondary disorders involving the cardiovascular/pulmonary system.
Prerequisites: PT 731 [Min Grade: C]

PT 744. PT Management of Neuromuscular Dysfunction I. 3 Hours.
Application, analysis, and synthesis of principles of neuromuscular rehabilitation in physical therapy examination, evaluation, diagnosis, and intervention.
Prerequisites: PT 721 [Min Grade: C]

PT 746. PT Management of Neuromuscular Dysfunction II. 4-5 Hours.
Continuation of PT 744. Application, analysis and synthesis of principles of neuromuscular rehabilitation in physical therapy examination, evaluation, diagnosis, prognosis and intervention.
Prerequisites: PT 744 [Min Grade: C]

PT 760. PT Professional Practice I. 2 Hours.
Introduction to the profession of physical therapy, including history, APTA, and scope of practice. Introduction to legal, ethical and other regulatory mechanisms that guide the practice of physical therapy. Presentation of cultural diversity issues related to physical therapy practice.
Prerequisites: PT 760 [Min Grade: C]

PT 761. PT Professional Practice II. 3 Hours.
Synthesis and application of regulatory mechanisms, legal mandates and ethical principles and theories to issues facing the physical therapy student and the physical therapist functioning in a multifaceted role; values clarification and decision making related to current professional issues. Strategies for dealing with diverse cultures and conflict. Utilization of documentation strategies to promote effective physical therapy practice and payment.
Prerequisites: PT 760 [Min Grade: C]

PT 762. PT Professional Practice III. 3 Hours.
Forces contributing to the health care environment and the effects of this environment on physical therapy practice, research and education. Concepts of health promotion (including wellness and patient education) and the role of the physical therapist in promoting healthy lifestyles in the health care and community settings. Theoretical basis for health behaviors and application of theories to physical therapy practice. Concepts of consultation, program planning, implementation, and evaluation applied to health promotion-oriented physical therapy programs.
Prerequisites: PT 761 [Min Grade: C]

PT 763. PT Professional Practice IV. 2 Hours.
Study of management and supervisory principles and current issues related to physical therapy practice: Practical concepts of marketing, organizational structure, fiscal management, facility planning, design and entrepreneurship.
Prerequisites: PT 762 [Min Grade: C]

PT 764. Professional Practice V - Capstone Experience. 2 Hours.
Integration of all previous coursework applied to reflection of the scope of physical therapy practice: direct patient care, professional growth/ development, professional issues, education, consultation, evidence based practice (EBP), communication, cultural competency, and promotion of the profession in achieving Vision 2020. Development and presentation of an individual portfolio that reflects core values, personal and professional growth and accomplishments, and appropriate plans for future professional development.

PT 770. Clinical Education. 1-9 Hour.
Supervised clinical education in patient care skills and practice issues related to physical therapy.

PT 775. Clinical Education VI. 9 Hours.
Supervised clinical education providing client care in supervision, consultation, research, management and teaching. Emphasis is on examination and evaluation skills; intervention techniques and treatment planning (including care of problems related to musculoskeletal, neuromuscular, cardiovascular/pulmonary and integumentary systems).

PT 778. Special Topics in Physical Therapy. 1-9 Hour.
Exploration of current issues in Physical Therapy.

PT 790. Scientific Inquiry I. 1-2 Hour.
Introduction to sources of evidence; measurement principles, experimental design, and basic statistical concepts are combined to build analytical skills required for evidence-based practice.

PT 791. Scientific Inquiry II. 2 Hours.
This course combines concepts of measurement principles, experimental design, qualitative, survey outcomes research and a review of basic statistical concepts that will prepare the graduate to critically analyze and use the scientific literature to improve clinical practice. Emphases will be placed on understanding the components of a research report and the concepts associated with judging quality of research design as applied to clinical practice.
Prerequisites: PT 790 [Min Grade: C](Can be taken Concurrently)

PT 792. Scientific Inquiry III. 2 Hours.
Emphasis on the assessment of research literature in physical therapy and the application of research findings to clinical practice.
Prerequisites: PT 791 [Min Grade: C]

Implementation of project activities with data collection, analysis, and preparation of manuscript of scholarly activity project. Student and mentor work together to identify specific project components to be completed during each specific term the course is taken.