PTAS 1121 Therapeutic Exercise I (2-6-4)
Emphasizes demonstration and practice of common therapeutic exercise utilized in physical therapy that include active, active assistive, and passive range of motion. Data collection and performance of manual muscle testing and special tests will be explored along with treatment interventions for common musculoskeletal disease, dysfunction, and injury for treatment of neck, shoulder, arm, hand, postural abnormalities, and body mechanics with an emphasis on ergonomics. Principles of patient care will be developed utilizing critical thinking and problem-solving skills in the selection and application of treatment interventions based on the plan of care.
Corequisites: PTAS 1105, PTAS 1130, PTAS 2010.
Prerequisite: PTAS 1100, PTAS 1110, PTAS 1115, PTAS 1125.
Offered: Spring.

PTAS 1122 Therapeutic Exercise for Special Populations (2-6-4)
Advanced therapeutic exercise techniques used in specialty areas of physical therapy, including, but not limited to: arthritis, wound care, burns, cardiopulmonary, peripheral vascular disease, geriatrics, amputation, women's health, cancer, and chronic pain.
Corequisites: PTAS 2100, PTAS 1135, PTAS 2050.
Prerequisites: PTAS 1100, PTAS 1105, PTAS 1110, PTAS 1115, PTAS 1121, PTAS 1130, PTAS 2010, PTAS 1125.
Offered: Summer.

PTAS 1125 Physical Agents (3-3-4)
Therapeutic properties and application of physical agents used in the delivery of physical therapy services. Electromyography will be included. Emphasis is on problem-solving skills necessary to provide an integrated approach to patient care. Students must demonstrate basic skill acquisition in using equipment and the ability to choose appropriate physical agents based on the physical therapist's plan of care. This course is web-enhanced.
Corequisites: PTAS 1100, PTAS 1110, PTAS 1115.
Prerequisite: Admission to PTA Program.
Offered: Fall.

PTAS 1130 Applied Neurology & Gait Analysis (2-3-3)
Basic neurophysiological concepts used as a foundation for understanding normal and abnormal function. Theory and application of fundamental neuro-anatomy and physical data collection techniques will be introduced. Normal and abnormal gait concepts are covered. Part-time clinical experience will be included. Corequisites: PTAS 1105, PTAS 2010, PTAS 1121.
Prerequisite: PTAS 1100, PTAS 1110, PTAS 1115, PTAS 1125.
Offered: Spring.