

PHYSICAL THERAPIST ASSISTANT (PTAE)

QUICK FACTS: PTAE COURSES

- **Instructional School:** Health
- **Department:** Health Professions

PTAE 101 Physical Therapy in Healthcare

(2 Credits, Fall)

This course studies the role of physical therapy in the health care world. Discussions include the role of the physical therapist assistant (PTA), the relationship between the PTA and the physical therapist (PT), and the delivery of physical therapy care. An introduction to the patient/client and the overall health care team is included. Health care ethics, standards specific to physical therapist assistants, diverse patient populations, and other topics are explored. Only those students who have been accepted into the Physical Therapist Assistant program are eligible to register for this course. COREQ: PTAE 107, PTAE 107L, PTAE 110, PTAE 110L, PTAE 211, and PTAE 211L. (2 lecture hours, 0 lab hours, 2 credits)

PTAE 107 Kinesiology

(2 Credits, Fall)

The study of human movement and the functional anatomy of the human body are learned in this course. The framework of musculoskeletal anatomy, muscle stabilization, balance, and function in daily activities is applied to physical therapy care. Normal and abnormal mechanics of body movement is explored. Students analyze tasks that span from simple activities of daily living to more complex occupational and athletic tasks. Only those students who have been accepted into the Physical Therapist Assistant program are eligible to register for this course. COREQ: PTAE 101, PTAE 107L, PTAE 110, PTAE 110L, PTAE 211, and PTAE 211L. (2 lecture hours, 0 lab hours, 2 credits)

PTAE 107L Kinesiology Lab

(2 Credits, Fall)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course (PTAE 107). Example skills include palpation, posture and movement analysis, and principles of human gait. COREQ: PTAE 107. (0 lecture hours, 4 lab hours, 2 credits)

PTAE 110 Principles and Procedures of Physical Therapy

(1 Credit, Fall)

This course develops competencies in treatment interventions used by physical therapist assistants. The rationale for treatment, progression of treatment, and working under the direction of the physical therapist are emphasized. Students learn skills such as bed mobility, range of motion, transfers, gait training, assistive device use, and wheelchair mobility. Infection control and safety for patients, self, and others is emphasized. Only those students accepted into the Physical Therapist Assistant program are eligible to register for this course. COREQ: PTAE 101, PTAE 107, PTAE 107L, PTAE 110L, PTAE 211, and PTAE 211L. (1 lecture hours, 0 lab hours, 1 credits)

PTAE 110L Principles and Procedures of Physical Therapy Lab

(2 Credits, Fall)

Students enrolled in this laboratory course will perform hands-on skills essential to patient treatment as listed in PTAE 110. COREQ: PTAE 110. (0 lecture hours, 4 lab hours, 2 credits)

PTAE 113 Clinical Pathology

(2 Credits, Fall)

An overview of basic disease progression and classification with special emphasis on the inflammatory response is presented in this course. Exploration of pathologies that include: oncology, developmental and genetic diseases, hemodynamic disorders, nutritional pathology, infectious disease, cardiovascular and pulmonary disorders, lymphatic, endocrine, and dermatological disorders. Musculoskeletal and other pathologies treated with physical therapy interventions are also explored. PREREQ: PTAE 207, PTAE 207L, PTAE 208, PTAE 208L, PTAE 217, and PTAE 217L with a grade of C or higher. COREQ: PTAE 204, PTAE 204L, and PTAE 240. (2 lecture hours, 0 lab hours, 2 credits)

PTAE 204 Therapeutic Modalities

(1 Credit, Fall)

This course provides an in-depth understanding of therapeutic modalities used as adjuncts to physical therapy interventions. Students develop competence in the application of therapeutic modalities including heat, cold, electrotherapy, intermittent compression, massage, traction, and ultrasound. The use of hydrotherapy and various treatments for wound care are explored. Evidence-based practice and indications/contraindications are emphasized. PREREQ: PTAE 207, PTAE 207L, PTAE 208, PTAE 208L, PTAE 217, and PTAE 217L with a grade of C or higher. COREQ: PTAE 113, PTAE 204L, and PTAE 240. (1 lecture hours, 0 lab hours, 1 credits)

PTAE 204L Therapeutic Modalities Lab

(2 Credits, Fall)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course. The application of hot and cold packs, ultrasound, electrical stimulation, and others as listed in PTAE 204 are performed to competency. COREQ: PTAE 204. (0 lecture hours, 4 lab hours, 2 credits)

PTAE 207 Therapeutic Exercise

(2 Credits, Spring)

This course presents strengthening and conditioning principles and how these principles relate to the rehabilitation of dysfunction. Students will learn how range of motion, strength, endurance, power, speed, agility, balance, proprioception, and kinesthesia relate to function and rehabilitation. PREREQ: PTAE 101, PTAE 107, PTAE 107L, PTAE 110, PTAE 110L, PTAE 211, and PTAE 211L with a grade of C or higher. COREQ: PTAE 207L, PTAE 208, PTAE 208L, PTAE 217, and PTAE 217L. (2 lecture hours, 0 lab hours, 2 credits)

PTAE 207L Therapeutic Exercise Lab

(2 Credits, Spring)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course (PTAE 207). The exercise prescription will be applied through the use of equipment and hands-on techniques. COREQ: PTAE 207. (0 lecture hours, 4 lab hours, 2 credits)

PTAE 208 Orthopedic Rehabilitation

(2 Credits, Spring)

This course emphasizes development, progression, and understanding of therapeutic exercise and other treatment practices for patients with musculoskeletal pathologies. PREREQ: PTAE 101, PTAE 107, PTAE 107L, PTAE 110, PTAE 110L, PTAE 211, and PTAE 211L with a grade of C or higher. COREQ: PTAE 207, PTAE 207L, PTAE 208L, PTAE 217, and PTAE 217L. (2 lecture hours, 0 lab hours, 2 credits)

PTAE 208L Orthopedic Rehabilitation Lab

(2 Credits, Spring)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course (PTAE 208). Students will learn exercise progression and techniques for application. COREQ: PTAE 208. *(0 lecture hours, 4 lab hours, 2 credits)*

PTAE 211 Data Collection

(1 Credit, Fall)

Students develop competence in the skills of measurements used in physical therapy. The use of goniometers, blood pressure cuffs, grip meters, and other tools of measurement are included. Analyzing gait, posture, and measuring muscle strength are included. Lab assessments include the reporting of observable and measurable data and their significance to patient progress. Emphasis is given to effective oral and written communication for reporting and documentation. Only those students who have been accepted into the Physical Therapist Assistant program are eligible to register for this course. COREQ: PTAE 101, PTAE 107, PTAE 107L, PTAE 110, PTAE 110L, and PTAE 211L. *(1 lecture hours, 0 lab hours, 1 credits)*

PTAE 211L Data Collection Lab

(2 Credits, Fall)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course. Competencies learned in PTAE 211 will be practiced, demonstrated, and assessed. COREQ: PTAE 211. *(0 lecture hours, 4 lab hours, 2 credits)*

PTAE 215 Special Populations

(1 Credit, Spring)

Students are introduced to the therapeutic principles and practices underlying the treatment of patients with burns, amputations, cardiopulmonary pathologies and considerations, women's health issues, and selected age-specific disorders. PREREQ: PTAE 113, PTAE 204, PTAE 204L, and PTAE 240 with a minimum grade of C or equivalent. COREQ: PTAE 215L, PTAE 221, and PTAE 241. *(1 lecture hours, 0 lab hours, 1 credits)*

PTAE 215L Special Populations Lab

(2 Credits, Spring)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course. Common patient treatment techniques are practiced for the pathologies listed in PTAE 215. COREQ: PTAE 215. *(0 lecture hours, 4 lab hours, 2 credits)*

PTAE 217 Neurological Rehabilitation

(2 Credits, Spring)

This course guides students through the principles and practices used in the rehabilitation of individuals with neurological conditions. The principles incorporate musculoskeletal and neurological therapeutic exercises across the lifespan. Proprioceptive neuromuscular facilitation, neurodevelopmental theory, and other facilitation techniques are learned. Pediatric training for developmental conditions is explored. PREREQ: PTAE 101, PTAE 107, PTAE 107L, PTAE 110, PTAE 110L, PTAE 211, and PTAE 211L with a grade of C or higher. COREQ: PTAE 207, PTAE 207L, PTAE 208, PTAE 208L, and PTAE 217L. *(2 lecture hours, 0 lab hours, 2 credits)*

PTAE 217L Neurological Rehabilitation Lab

(2 Credits, Spring)

Students enrolled in this laboratory course will learn how to perform the skills that are complementary to the content provided in the theory course (PTAE 217). Therapeutic exercise, treatment plans, and skill competencies related to the neuromuscular system are emphasized. COREQ: PTAE 217. *(0 lecture hours, 4 lab hours, 2 credits)*

PTAE 221 Seminar Experience

(2 Credits, Spring)

Psychosocial considerations are reviewed with application to cultural/gender/aging/family dynamics in relation to disease, dysfunction, death and dying, and the grieving process. In addition, caregiver self-care, assertive communication, and clinical burnout are presented. Includes an introduction to effective administration aspects of varied physical therapy environments. Preparation for entering the physical therapy workplace is also explored. A review of the required text with an emphasis on board exam study and test-taking strategies is included. PREREQ: PTAE 113, PTAE 204, PTAE 204L, and PTAE 240 with a minimum grade of C or equivalent. COREQ: PTAE 215, PTAE 215L, and PTAE 241. *(2 lecture hours, 0 lab hours, 2 credits)*

PTAE 240 Clinical Affiliation I

(7 Credits, Fall)

An eight-week full-time clinical experience in a physical therapy clinical environment. Students use the competencies learned in their PTA technical courses to assist with the treatment of patients/clients. Patient treatment, progression, rationale, and critical thinking, are practiced in a supervised setting. (Pass/No Pass) PREREQ: PTAE 207, PTAE 207L, PTAE 208, PTAE 208L, PTAE 217, and PTAE 217L with a grade of C or higher. COREQ: PTAE 113, PTAE 204, and PTAE 204L. *(0 lecture hours, 21 lab hours, 7 credits)*

PTAE 241 Clinical Affiliation II

(7 Credits, Spring)

An eight-week, full-time final clinical experience in a physical therapy environment. Students use the competencies learned in their PTA technical courses to assist with the treatment of patients/clients. Patient treatment, progression, rationale, and critical thinking are practiced in a supervised setting. (Pass/No Pass) PREREQ: PTAE 113, PTAE 204, PTAE 204L, and PTAE 240 with a minimum grade of C or equivalent. COREQ: PTAE 215, PTAE 215L, and PTAE 221. *(0 lecture hours, 21 lab hours, 7 credits)*

Refer to [How to Read Course Descriptions](#) for an explanation of elements found in the course descriptions above.