

PHYSICAL THERAPIST ASSISTANT (PTAE)

PTAE-101 Physical Therapy in Health Care 2 Credits

Lecture: 2 hours per week

Offering: Fall Only, All Years

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.

Prerequisites: BIOL-227, CAOT-179, ENGL-101, GEM 3 MATH

Corequisites: PTAE-107, PTAE-110, PTAE-113

PTAE-107 Kinesiology 4 Credits

Lecture: 2 hours per week, **Lab:** 4 hours per week

Offering: Fall Only, All Years

This course will study human movement and the functional anatomy of the human body. 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.

Prerequisites: BIOL-227, CAOT-179, ENGL-101, GEM 3 MATH

Corequisites: PTAE-101, PTAE-107L, PTAE-110, PTAE-113

PTAE-107L Kinesiology Lab 0 Credits

Lab:

Offering: Fall Only, All Years

This course is a corequisite lab for PTAE-107.

Corequisites: PTAE-107

PTAE-110 Principles and Procedures of Physical Therapy 3 Credits

Lecture: 1 hour per week, **Lab:** 4 hours per week

Offering: Fall Only, All Years

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 are emphasized.

Prerequisites: BIOL-227, CAOT-179, ENGL-101, GEM 3 MATH

Corequisites: PTAE-101, PTAE-107, PTAE-110L, PTAE-113

PTAE-110L Principles and Procedures of Physical Therapy Lab 0 Credits

Lab:

Offering: Fall Only, All Years

This course is a corequisite lab for PTAE-110.

Corequisites: PTAE-110

PTAE-113 Clinical Pathology 2 Credits

Lecture: 2 hours per week

Offering: Fall Only, All Years

An overview of basic disease progression and classification with special emphasis on the inflammatory response are 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.

Prerequisites: BIOL-227, CAOT-179, ENGL-101, GEM 3 MATH

Corequisites: PTAE-101, PTAE-107, PTAE-110

PTAE-204 Therapeutic Modalities 3 Credits

Lecture: 1 hour per week, **Lab:** 4 hours per week

Offering: Fall Only, All Years

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. Evidenced-based practice and indications/contraindications are emphasized.

Prerequisites: PTAE-207, PTAE-208, PTAE-211, PTAE-217

Corequisites: PTAE-204L, PTAE-215, PTAE-240

PTAE-204L Therapeutic Modalities Lab 0 Credits

Lab:

Offering: Fall Only, All Years

This course is a corequisite lab for PTAE-204L.

Corequisites: PTAE-204

PTAE-207 Therapeutic Exercise 4 Credits

Lecture: 2 hours per week, **Lab:** 4 hours per week

Offering: Spring Only, All Years

This course presents strengthening and conditioning principles and how these principles relate to rehabilitation of dysfunction. Students learn how range of motion, strength, endurance, power, speed, agility, balance, proprioception and kinesthesia relate to function and rehabilitation.

Prerequisites: PTAE-101, PTAE-107, PTAE-110

Corequisites: PTAE-207L, PTAE-208, PTAE-211, PTAE-217

Lecture: 2 hours per week **Lab:** 4 hours per week.

PTAE-207L Therapeutic Exercise Lab 0 Credits

Lab:

Offering: Spring Only, All Years

This course is a corequisite lab for PTAE-207.

Corequisites: PTAE-207

PTAE-208 Orthopedic Rehabilitation

4 Credits

Lecture: 2 hours per week, **Lab:** 4 hours per week

Offering: Spring Only, All Years

This course emphasizes development, progression, and understanding of therapeutic exercise and other treatment practices for patients with musculoskeletal pathologies. Only those students who have successfully completed previous PTAE program coursework are eligible to enroll in this course.

Prerequisites: PTAE-101, PTAE-107, PTAE-110

Corequisites: PTAE-207, PTAE-208L, PTAE-211, PTAE-217

Lecture: 2 hours per week **Lab:** 4 hours per week.

PTAE-208L Orthopedic Rehabilitation Lab

0 Credits

Lab

Offering: Spring Only, All Years

This course is a corequisite lab for PTAE-208.

Corequisites: PTAE-208

PTAE-211 Data Collection

3 Credits

Lecture: 1 hour per week, **Lab:** 4 hours per week

Offering: Spring Only, All Years

This course will 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 measureable data and their significance to patient progress. Emphasis is given to effective oral and written communication for reporting and documentation.

Prerequisites: PTAE-101, PTAE-107, PTAE-110

Corequisites: PTAE-207, PTAE-208, PTAE-211L, PTAE-217

PTAE-211L Data Collection Lab

0 Credits

Lecture

Offering: Spring Only, All Years

This course is a corequisite lab for PTAE-211.

Corequisites: PTAE-211

PTAE-215 Special Populations

3 Credits

Lecture: 1 hour per week, **Lab:** 4 hours per week

Offering: Fall Only, All Years

This course introduces the therapeutic principles and practices underlying the treatment of patients with amputations, burns, cardiopulmonary pathologies and considerations, women's health issues, and selected age-specific disorders.

Prerequisites: PTAE-207, PTAE-208, PTAE-211, PTAE-217

Corequisites: PTAE-204, PTAE-215L, PTAE-240

PTAE-215L Special Populations Lab

0 Credits

Lab

Offering: Fall Only, All Years

This course is a corequisite lab for PTAE-215.

Corequisites: PTAE-215

PTAE-217 Neurological Rehabilitation

4 Credits

Lecture: 2 hours per week, **Lab:** 4 hours per week

Offering: Spring Only, All Years

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 exercise across the lifespan. Proprioceptive neuromuscular facilitation, neurodevelopmental theory and other facilitation techniques are learned. Pediatric training for developmental conditions is explored.

Prerequisites: PTAE-101, PTAE-107 and PTAE-107L, PTAE-110 and PTAE-110L

Corequisites: PTAE-207 and PTAE-207L, PTAE-208 and PTAE-208L, PTAE-211 and PTAE-211L, PTAE-217L

PTAE-217L Neurological Rehabilitation Lab

0 Credits

Lab

Offering: Spring Only, All Years

This course is a corequisite lab PTAE-217.

Corequisites: PTAE-217

PTAE-221 Seminar

2 Credits

Lecture: 2 hours per week

Offering: Spring Only, All Years

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.

Prerequisites: PTAE-204, PTAE-215, PTAE-240

Corequisites: PTAE-241

PTAE-240 Clinical Affiliation 1

7 Credits

Internship: 40 hours per week

Offering: Fall Only, All Years

An eight week, full-time clinical experience in a physical therapy clinical environment. Students use the competencies learned in the PTA technical courses to assist with treatment of patients/clients. Patient treatment, progression, rationale, and critical thinking are practiced in a supervised setting.

Prerequisites: PTAE-207, PTAE-208, PTAE-211, PTAE-217

Corequisites: PTAE-204, PTAE-215

PTAE-241 Clinical Affiliation 2

7 Credits

Internship: 40 hours per week

Offering: Spring Only, All Years

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.

Prerequisites: PTAE-204, PTAE-215, PTAE-240

Corequisites: PTAE-221

PTAE-250 Clinical Affiliation II**6 Credits****Internship:** 40 hours per week**Offering:** Spring Only, All Years

This course is a six-week, full-time clinical experience in a physical therapy clinical environment. Students use the competencies learned in their PTA technical courses to assist with treatment of patients/clients. Patient treatment, progression, rationale, and critical thinking, are practiced in a supervised setting.

Corequisites: PTAE-255**PTAE-255 Clinical Affiliation III****6 Credits****Internship:** 40 hours per week**Offering:** Spring Only, All Years

This course is the final, full-time clinical experience in a physical therapy clinical environment. Students apply treatment intervention competencies, oral and written communication skills, and the art of caring for diverse populations in a physical therapy workplace setting. Patient progression, rationale for treatment, and critical thinking, are practiced in a supervised setting.

Pre/Corequisites: PTAE-250