

# PHYSICAL THERAPY (P T)

## **P T 600 - Physical Therapy Professional Seminar (0.0 hours)**

A forum for students in all stages of the curriculum. Faculty, clinicians, and students will lead discussions and provide presentations on a variety of topics, including areas of current research, professional practice issues, and issues pertaining to clinical education. Satisfactory/unsatisfactory.

Prerequisite: Physical therapy majors only

## **P T 612 - Functional Anatomy I (3.0 hours)**

A lecture and laboratory study of human movement and applied kinesiology along with the introduction of physical therapy techniques to assess components of human movement.

Prerequisite: Physical therapy majors only

## **P T 614 - Gross Anatomy I (3.0 hours)**

Cadaveric dissection and study of the musculoskeletal, vascular, and peripheral nervous systems of the extremities.

Prerequisite: Physical therapy majors only

## **P T 622 - Functional Anatomy II (3.0 hours)**

A lecture and laboratory study of human movement and applied kinesiology along with introduction of physical therapy techniques to assess components of human movement.

Prerequisite: Physical therapy majors only

## **P T 624 - Gross Anatomy II (3.0 hours)**

Cadaveric dissection and study of the structures of the nervous, cardiovascular, pulmonary, gastrointestinal, genitourinary, and integumentary systems.

Prerequisite: Physical therapy majors only

## **P T 630 - Foundations of Physical Therapy (4.0 hours)**

An introduction to clinical applications in physical therapy. Topics covered in this course include basic physical therapy examination procedures, professional documentation and communication, therapeutic exercise, physical agents and mechanical modalities, and patient care skills.

Prerequisite: Physical therapy majors only

## **P T 636 - Musculoskeletal Physical Therapy I (4.0 hours)**

The study and application of orthopaedic basic science in the examination, evaluation, and management of dysfunctions and disabilities of the appendicular skeleton.

Prerequisite: Physical therapy majors only

## **P T 640 - Clinical Science I (3.0 hours)**

The anatomical, biomechanical, physiological, and histological basis of the normal and pathological musculoskeletal system, along with specialized examination, assessment, and intervention strategies for the musculoskeletal system.

Prerequisite: Physical therapy majors only

## **P T 646 - Research Methods (2.0 hours)**

Research design, methods, and ethical implications; exploration of research topics with review of appropriate literature; and introduction to components of the research proposal.

Prerequisite: Physical Therapy majors only.

## **P T 655 - Experiential Learning (1.0 hour)**

Students will work collaboratively with department faculty and fellow students to provide physical therapy services to individuals from within the community. Client interview, assessment and treatment progression, and discharge planning will be emphasized. Students will gain experience in supervising students with less experience, including the provision of constructive feedback.

Prerequisite: Physical Therapy majors only.

## **P T 662 - Neurological Physical Therapy I (4.0 hours)**

The study and application of neurological basic science in the examination, evaluation, and management of dysfunctions and disabilities in physical therapy patient care.

Prerequisite: Physical therapy majors only

## **P T 666 - The Research Process (2.0 hours)**

A course composed of lecture/discussion on the scientific basis and evidence supporting the use of various exercise techniques, as well as practical application and hands-on experience performing and completing these exercise techniques and applications correctly. Therapeutic, training, and performance enhancement approaches to exercise will be addressed.

Prerequisite: Physical Therapy majors only.

## **P T 670 - Human Development Throughout the Lifespan (3.0 hours)**

A multi-system analysis of the many facets of individual development from conception to death.

Prerequisite: Physical therapy majors only.

## **P T 680 - Clinical Science II (2.0 hours)**

The anatomical, physiological, and histological basis of the normal and pathological neuromuscular system, and foundations of pharmacology as it relates to intervention strategies for patients with neuromuscular impairments.

Prerequisite: Physical therapy majors only.

## **P T 686 - Supervised Research I (1.0 hour)**

Development of a research product under the guidance of a research advisor.

Prerequisite: Physical therapy majors only.

## **P T 700 - Musculoskeletal Physical Therapy II (4.0 hours)**

The study and application of orthopaedic basic science in the examination, evaluation, and management of dysfunctions and disabilities of the axial skeleton.

Prerequisite: Physical therapy majors only.

## **P T 710 - Clinical Education I (8.0 hours)**

The first of four full-time supervised clinical experiences requiring utilization of communication skills and teaching interpersonal and evaluative skills. This course provides the opportunity to advance physical therapy procedures and to continue to develop professional socialization. Satisfactory/unsatisfactory.

Prerequisite: Physical therapy majors only.

## **P T 716 - Supervised Research II (1.0 hour)**

Data collection and preliminary statistical analysis of the student research report.

Prerequisite: Physical Therapy majors only.

## **P T 720 - Teaching and Learning Theory in Physical Therapy (3.0 hours)**

Discussion and application of teaching and learning theories as related to the classroom and clinical setting, including student clinical education, staff inservice, and patient education.

Prerequisite: Physical therapy majors only.

**P T 730 - Neurological Physical Therapy II (4.0 hours)**

Applied neurological examination, evaluation, and intervention theories and strategies in physical therapy patient care.

Prerequisite: Physical therapy majors only

**P T 740 - Clinical Science III (2.0 hours)**

The management of a variety of disorders resulting in physical, emotional, and cognitive impairments and their physical therapy implications.

Prerequisite: Physical therapy majors only.

**P T 760 - Independent Study (0.0-6.0 hours)**

Individual study and investigations through selected readings, discussions, and/or written assignments. May be repeated for a maximum of six semester hours.

Prerequisite: Physical Therapy majors; non-majors by permission of the Department of Physical Therapy and Health Science chair.

**P T 761 - Advanced Dry Needling Lower Quarter Integration (2.0 hours)**

This lecture and laboratory course is designed to provide the students with the abilities to appropriately and safely integrate dry needling intervention as it relates to orthopedic physical therapy practice. The focus of this course is the examination and evaluation techniques, as well as the application of dry needling for a variety of musculoskeletal disorders involving the lower quarter.

Prerequisite: P T 636

**P T 762 - Advanced Dry Needling Upper Quarter Integration (2.0 hours)**

This lecture and laboratory course is designed to provide the students with the advanced abilities to appropriately and safely integrate dry needling intervention as it relates to orthopedic physical therapy practice. The focus of this course is the examination and evaluation techniques, as well as the application of dry needling for a variety of musculoskeletal disorders involving the upper quarter.

Prerequisite: P T 761

**P T 766 - Supervised Research III (1.0 hour)**

Data analysis and interpretation; presentation of preliminary research findings to peers and internal and external constituents.

Prerequisite: Physical Therapy majors only.

**P T 770 - Applied Exercise Principles (3.0 hours)**

A course composed of lecture/discussion on the scientific basis and evidence supporting the use of various exercise techniques, as well as practical application and hands-on experience performing and completing these exercise techniques and applications correctly. Therapeutic, training, and performance enhancement approaches to exercise will be addressed.

Prerequisite: Physical therapy majors only.

**P T 790 - Cardiovascular, Pulmonary, and Integumentary PT (4.0 hours)**

The anatomical, physiological, and histological basis of the normal and pathological cardiac, pulmonary, vascular, and integumentary systems. Normal and abnormal metabolic processes and their physical therapy implications.

**P T 800 - Clinical Education II (8.0 hours)**

The second of four full-time supervised clinical experiences offering the opportunity for continued development of clinical management of patients in one of a variety of clinical settings. This course allows for continued professional socialization and growth as well as further development of professional behaviors. Satisfactory/unsatisfactory.

Prerequisite: Physical therapy majors only.

**P T 810 - Health and Wellness (3.0 hours)**

Physical therapy implications of common health issues in a variety of physical therapy clients, and the role of screening and prevention in dealing with these issues.

Prerequisite: Physical therapy majors only.

**P T 816 - Supervised Research IV (1.0 hour)**

Emphasis of this course is on final revisions of poster and platform presentations for dissemination at the state and national level, grant writing for conference-related travel, and preparation of manuscript for submission to a peer-reviewed journal.

Prerequisite: Physical Therapy majors only.

**P T 820 - Physical Therapy Administration and Professional Issues (3.0 hours)**

Overview of the utilization of health care policies, community resources, program development, professional issues and administrative principles encountered in providing health care in today's settings.

Prerequisite: Physical therapy majors only.

**P T 830 - Physical Therapy Differential Diagnosis (4.0 hours)**

The curriculum's capstone course that emphasizes the role of the physical therapist in managing the patient with multi-system dysfunctions.

Prerequisite: Physical therapy majors only.

**P T 850 - Clinical Education III (10.0 hours)**

The third of four full-time supervised clinical experiences offering the opportunity for continued development of clinical management of patients in one of a variety of clinical settings. Allows for continued professional socialization and growth as well as further development of professional behaviors. Satisfactory/unsatisfactory.

Prerequisite: Physical therapy majors only.

**P T 860 - Clinical Education IV (10.0 hours)**

The last of four full-time, supervised clinical experiences or second half of the final clinical education experience requiring utilization of advanced communication skills and teaching interpersonal and evaluative skills. Students have the opportunity to further develop clinical management of patients in a different clinical setting. Furthermore, continued professional socialization and growth as well as continued development of professional behaviors are expected. Satisfactory/unsatisfactory.

Prerequisite: Physical therapy majors only.