client return to their home environment and resume activities and relationships of normal daily living.

**Academic Calendar.** Contact the Physical Therapy Department for academic dates.

### Graduate Programs

**Doctor of Physical Therapy (DPT)**

This three-year program begins after a student completes 92 semester credits of specific college prerequisites. Students taking the appropriate prerequisites will earn a Bachelor of Health Science (BHS) after the first year in the professional program and the DPT degree upon successful completion of the program. A previous bachelor's degree is not required however applicants holding a bachelor's degree are eligible to apply as well.

**Program Accreditation**

The DPT program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE)*. After receiving the DPT degree graduates may apply to take the physical therapy licensure exam in the state of their choice.

* 1111 North Fairfax, Alexandria, VA 22314

**Information/Application Process**

Please call 1-800-827-2878, email pt-info@andrews.edu or visit www.pt.andrews.edu for application instructions and admission requirements. Information is available by June of each year.

All applicants applying for admission to the DPT professional entry program must apply via the Physical Therapy Centralized Application Service as well as Andrews University's DPT Supplemental Application.

**Admission Requirements**

There are three tracks for admission into the DPT program. The minimum requirements to be considered for admission are:

**Freshman Acceptance** (No interview or confirmation deposit necessary). Freshman enrolling as a BHS:Physical Therapy major are guaranteed acceptance into the DPT program if they complete at least 90% of prerequisite course requirements at Andrews, maintain at least a 3.3 science and overall GPA, meets other program admission requirements found below, upholds university standards and displays professional behavior.

**Preferred Acceptance** (Requires an interview and confirmation deposit). Acceptance into the program is preferred when a student transfers into Andrews University for at least their last semester prerequisite requirements, maintains at least a 3.3 science and overall GPA, meets other program admission requirements found below, upholds university standards and displays professional behavior.

**General Acceptance** (Requires an interview and confirmation deposit). The Andrews University physical therapy program enrolls students from a nationwide pool. General Acceptance includes any student who has completed prerequisite requirements from an accredited college or university (or U.S. equivalent), maintains at least a 3.0 science and overall GPA,
meets other program admission requirements found below, upholds university standards and displays professional behavior. Admission to the DPT program is selective based on the following considerations:

1. **Prerequisite Courses**: A bachelor’s degree or 92 semester credits of course work with at least 15 upper division credits from three or more content areas.

   **Life/Physical Sciences**
   - **Life Science**—A full sequence of anatomy and physiology or general biology with labs plus an upper division science course(s) related to human physiology or human biology.
   - **Physical Science**: Option 1: A full sequence of general physics with labs as required for physics majors or pre-med students plus any two chemistry courses with labs; or Option 2: A full sequence of general chemistry with labs as required for chemistry majors or pre-med students plus any two physics courses with labs.

   **Mathematics**: A basic statistics course.

   **Social Sciences**:
   - **Psychology**—An introductory psychology course.
   - **Human Development**—A course which covers physical, social, and psychological development beginning with conception.

   **Medical Terminology**: A course in basic medical terminology. May be taken by distance learning.

   These additional prerequisite courses are required for all applicants who do not have a bachelor’s degree from an accredited school:

   **Religion**: One religion course per year of attendance in a Seventh-day Adventist college or university. Maximum of four courses.

   **Language/Communication**: Two courses of English composition and one basic communication course.

   **Arts/Humanities**:
   - **Arts**—One course. An appreciation, theory or introductory course in music, art, literature, photography, or one year of ensemble music.
   - **Humanities**—One course. A course from western civilization, U.S. history, American history, ethics, cultural perspectives, philosophy, or foreign language. Canadian students may take Canadian history.

   **Physical Education**: One wellness theory or activity course.

   **Computer Literacy**: A PT department approved basic computer course which includes word processing, or pass a college-level competency exam of equivalent skills.

   **Service**: Not required as it is taught in the professional program.

   **Electives**: To fulfill the total 92 semester credits required, some course suggestions include service-related courses, business courses, cultural and diversity courses, arts and humanities, physical activities, nutrition.

2. **GPA Requirements**: A minimum GPA of 3.00 is required in science courses and a minimum GPA of 3.00 in all core PT prerequisite courses. A grade of “C” or better is required in each prerequisite course.

3. **Graduate Record Exam (GRE) Requirements**: A minimum composite score of 800 (Verbal + Quantitative), and a minimum written score of 3.0. Submit scores from the General Test taken less than five years prior to enrollment in the program.

4. **Clinical Observation**: Document 80 hours (including 20 hours in an inpatient setting) supervised by a licensed physical therapist. All hours must be completed within three years prior to enrollment.

5. **Application Materials**: Applicants without a bachelor’s degree are required when a minimum of 4 or more prerequisite science courses and a minimum of 60 semester credits have been completed.

6. **Personal Interview**: Applicants who meet eligibility requirements are invited for a personal interview. Phone interviews may be acceptable.

7. **English Proficiency**: See Graduate Programs: English Language Requirements. In addition, applicants whose first language is not English must document successful completion of 20 semester credits of course work with instruction in the English language. An English translation of relevant course descriptions from college catalogs are required for all course work taken in another language.

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**Bachelors of Health Science (Interim Degree)**

Students successfully completing the appropriate prerequisites and the first two semesters (36 credits) of the professional program qualify for the Bachelor of Health Science Degree. Successful completion of the BHS is defined as:


2. No more than a cumulative total of five points earned on the grade-point scale throughout the physical therapy program (see DPT Student Handbook).

3. Students must be able to perform skills listed in the Technical Standards of Performance and demonstrate professional behaviors as outlined in the DPT Student Handbook.

4. Maintain a cumulative GPA of 2.50 or greater in all credits used to meet the BHS degree requirements.

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**Doctor of Physical Therapy (DPT)**

Upon successful completion of the professional phase of the program (116 credits) students earn the Doctor of Physical Therapy Degree. All coursework scheduled for each semester must be successfully completed prior to advancing to the next semester. Successful completion of the DPT program is defined as:

1. Completion of a bachelor’s degree (BHS or other).


3. Maintain a cumulative DPT program GPA of 3.00.

4. No more than a cumulative total of five points earned on the grade-point scale throughout the physical therapy program (see DPT Student Handbook).

5. Students must be able to perform skills listed in the Technical Standards of Performance and demonstrate professional behaviors as outlined in the DPT Student Handbook.


7. Satisfactory completion of a capstone project and presentation.

8. Satisfactory completion of five clinical internships and the associated “Clinical Performance Instrument.”
Continued Enrollment Requirements
1. Progressive enrollment in the physical therapist education program requires successful completion of all Physical Therapy program course work including clinical education listed for the previous academic term.
2. A student whose cumulative GPA falls below 3.00 in any given academic term is placed on academic probation. Students who do not increase their cumulative GPA to 3.00 during the academic term of probation are normally asked to withdraw.
3. Students who receive less than a "C+" (2.33) or a "U" on a "S/U" course or clinical will be given "grade points" equal to the semester credit for the course. A student who accumulates six or more points will academically disqualify him/herself from continuing in the program.

Postprofessional Programs
• Transitional Doctor of Physical Therapy (t-DPT)
• Doctor of Science in Physical Therapy (DScPT)

These postprofessional programs are designed to provide practicing physical therapists with the opportunity to obtain postprofessional studies and an advanced clinical doctoral degree in the field of their discipline without the need to terminate or significantly change their regular employment or lifestyle. Classes are either taught in a short-course format of no more than six days per session, or done by distance learning. All courses may be taken to earn academic credit or continuing education units (CEUs).

Transitional Doctor of Physical Therapy (t-DPT)

Admission Requirements
The minimum requirements to be considered for admission are:
1. Hold current licensure as a physical therapist in U.S. or Canada.
2. Submit graduate application.
3. Submit a minimum of three satisfactory recommendations:
   one from a currently practicing physical therapist, one from a medical doctor, and one from another person familiar with the candidate.
4. Graduate of an accredited physical therapy school.
5. For candidates holding a bachelor's degree, with no advanced master's, receipt of PTET scores.

Degree Requirements
The following degree requirements apply to students graduating from the DScPT program.
1. For students with a BS or Masters degree: Satisfactory completion of, or competency in, the following courses: PTH500, 507 or 545, 536, 537, 538, 546, 547, 548, 550, 590, 615, 630, 646, 718, 730, 740, 748, 760, 798, plus 10 approved elective credits.
For students with a DPT degree: Satisfactory completion of the following courses: PTH536, 537, 538, 546, 547, 548, 549, 550, 760, 798, plus 5 approved elective credits.
2. Level III Manual Therapy Certification through NAIOMT or equivalent certification from another approved program; completed by registering for PTH770.
3. Minimum of 2 years of part-time clinical practice (20 hours per week), or equivalent, in orthopedics, to be completed prior to the conferring of the degree.
4. No grade lower than "C" (2.00) in any course.
5. A minimum cumulative GPA of 3.00.
6. Successful completion of the capstone project.

Courses

PHTH120 Introduction to Physical Therapy  
S (2)

PHTH417 Human Anatomy  
S ♦ (3)

Physical Therapy

Admission Requirements
The following admissions requirements apply.
1. Hold current licensure as a physical therapist in U.S. or Canada.
2. Proof of employment in an orthopedic setting, at least 20 hours per week.
3. Submit graduate application.
4. Submit a minimum of three satisfactory recommendations: one from a currently practicing physical therapist, one from a medical doctor, and one from another person familiar with the candidate.
5. Graduate of an accredited physical therapy school.
6. For candidates holding a bachelor's degree, with no advanced master's, receipt of PTET scores.
7. For candidates holding a master's degree, receipt of professional portfolio.

Degree Requirements
The following degree requirements apply to students graduating from the DScPT program.
1. For students with a BS or Masters degree: Satisfactory completion of, or competency in, the following courses: PTH500, 507 or 545, 536, 537, 538, 546, 547, 548, 550, 590, 615, 630, 646, 718, 730, 740, 748, 760, 798, plus 10 approved elective credits.
For students with a DPT degree: Satisfactory completion of the following courses: PTH536, 537, 538, 546, 547, 548, 549, 550, 760, 798, plus 5 approved elective credits.
2. Level III Manual Therapy Certification through NAIOMT or equivalent certification from another approved program; completed by registering for PTH770.
3. Minimum of 2 years of part-time clinical practice (20 hours per week), or equivalent, in orthopedics, to be completed prior to the conferring of the degree.
4. No grade lower than "C" (2.00) in any course.
5. A minimum cumulative GPA of 3.00.
6. Successful completion of the capstone project.

Courses

PHTH120 Introduction to Physical Therapy  
S (2)

PHTH417 Human Anatomy  
S ♦ (3)

Human Anatomy

Comprehensive study of human anatomy covering all systems of head, neck, trunk, and extremities. A solid morphological basis for a synthesis of anatomy, physiology, and clinical sciences provided. Dissection and identification of structures in the cadaver, and the study of charts, models, and prosected materials. Prerequisites: BIOL111, 112 or BIOL165, 166 or equivalent. See instructor for additional requirements. 
Corequisite: PTH427.
**PTH427**

**Human Anatomy Laboratory**
Study of the prosected extremity, head and neck anatomy, and dissection of the abdominal and thoracic organ systems. Prerequisites: same as for PTH417. Corequisite: PTH417.

**PTH480**

**Physical Therapy Clinical Experience**
A course which provides hands-on, patient contact experiences in a variety of settings. The clinical experiences are coordinated to correspond to the requirements of the physical therapy program. As a facilitator, the clinical instructor will assist in developing the student’s clinical thinking skills. The student is expected to become independent with the evaluation and treatment of non-complex patients within that practice setting. S/U course.

**PTH590**

**Topics in ________**
Selected topics in physical therapy. Permission of department chair required. Repeatable. Specific prerequisites may be required for some subject areas.

**PTH400**

**Anatomy**
A comprehensive study of human anatomy with emphasis on the nervous, skeletal, muscle, and circulatory systems. Introduction to basic embryology and its relation to anatomy and the clinical sciences concludes the course. Provides a solid morphological basis for a synthesis of anatomy, physiology, and the physical therapy clinical sciences. Corequisite: PTH410.

**PTH410**

**Anatomy Laboratory**
Dissection and identification of structures in the cadaver supplemented with the study of charts, models, prosected materials and radiographs are used to identify anatomical landmarks and configurations. Corequisite: PTH400.

**PTH415**

**PT Assessment Skills**
Introduction to assessment principles and examination skills utilized in all areas of physical therapy. The *Guide to Physical Therapy Practice* is referenced for the basic skills required in the assessment, intervention and documentation guidelines. Corequisite: PTH425.

**PTH416**

**Pathokinesiology**
The study of human movement including an introduction to the basic concepts of biomechanics with an emphasis on human joint/muscle structures and function, advancing to analysis of body mechanics, normal gait analysis, and pathological movement analysis. Joint abnormalities will be identified using radiographs, related to the resultant movement dysfunction. Prerequisites: PTH400 and 410. Corequisite: PTH426.

**PTH418**

**General Medicine**
Clinical techniques applied to the examination, evaluation, treatment, and discharge planning of patients in general medical and acute-care. Emphasis on physical therapy intervention with relevant factors, management of pain and physical complications during medical treatment, and examination and treatment of special populations including wound and burn care. Corequisite: PTH428.

**PTH420**

**Therapeutic Interventions**
Basic principles, physiologic effects, indications and contraindications, application and usage of equipment, and intervention rationale for hydrotherapy, thermal agents, wound care, massage, electrotherapy and mechanotherapy (traction) and other therapeutic interventions. Corequisite: PTH430.

**PTH425**

**PT Assessment Skills Laboratory**
Basic examination skills including surface palpation of specific underlying muscle and bone structures, joint motion (goniometry), manual procedures for testing muscle strength sensation, vital signs, limb girth and volumetric measurement will be practiced. Clinical application in basic physical therapy care procedures will be introduced. Corequisite: PTH415.

**PTH426**

**Pathokinesiology Laboratory**
Biomechanical, and observational analysis, of normal and abnormal human movement. Integration of basic examination skills with gait and movement analysis. Prerequisites: PTH400 and 410. Co-requisite: PTH416.

**PTH428**

**General Medicine Laboratory**
Practice in assessment modified for the acute-care environment. Applications include home-and work-place evaluation for architectural barriers, functional evaluation tools, casting, and modification of treatment for acute care including goal setting and professional note writing. Corequisite: PTH418.

**PTH430**

**Therapeutic Interventions Laboratory**
Supervised practicum includes patient positioning and application of the therapy to obtain desired physiological response. Techniques of hydrotherapy, thermal agents, wound care, and massage, as well as specific electrotherapy and mechanotherapy treatments and assessment of physiological responses to those treatments. Corequisite: PTH420.

**PTH440**

**Pathophysiology I**
Sequence studying disease processes affecting major body systems and the resulting anatomical and pathophysiological changes. Clinical presentations and pharmacological treatment of patients with those disease processes are presented, as well as diagnostic tests and laboratory values used to identify pathological conditions. Prerequisites: PTH400 and 410.

**PTH445**

**Neuroscience**
Basic anatomy and functions of the central and peripheral nervous systems and their related structures. Pathways of the central and peripheral nervous system are examined along with a detailed study of each of the 12 pairs of cranial nerves. Prerequisites: PTH400 and 410. Corequisite: PTH455.

**PTH450**

**Neurology of Motor Control**
An introduction to the function and interaction of the primary areas of the nervous system involved in controlling human movement, including the cortex, spinal cord, peripheral receptor system, basal ganglia, cerebellum, and the vestibular systems.
Students are introduced to terminology and concepts associated with both normal function and pathology in these areas.

**PTH455**  
**Neuroscience Laboratory**  
Study of the prosected central and peripheral nervous tissues, models and charts. Imaging will be used to compare normal to abnormal CNS presentation. Prerequisites: PTH400 and 410. Corequisite: PTH445.

**PTH457**  
**Orthopedic Medicine**  
Medical lectures covering selected topics in orthopedics, including common orthopedic diseases and the use of diagnostic testing and imaging in the orthopedic field.

**PTH460**  
**Topics in Comparative Religion**  
This course surveys the major religious traditions of the world. Study includes an overview of origins; major philosophical and theological underpinnings; typical aspects of worship and ethics; and major social, cultural, and political influences. Study is done from a consciously Christian framework.

**PTH495**  
**Independent Study/Readings/Research/Projects**  
Permission of department chair required prior to registration for all independent work. Repeatable to 8 credits.

**PTH500**  
**Doctoral Colloquium**  
A degree orientation which will include portfolio development and assessment, development of the degree contract, usage of James White Library system, and introduction to the *Guide to Physical Therapy Practice*.

**PTH507**  
**Applied Clinical Anatomy & Kinesiology**  
Lecture/lab course studying regional anatomy and biomechanics as they relate to normal movement and the potential development of movement dysfunctions. Correlations between pathomechanics, clinical presentation of pathology and decision making for therapeutic interventions will be drawn.

**PTH536**  
**NAIOMT Level I: Introduction to Fundamentals of Orthopedic Manual Therapy & Differential Diagnosis**  
Appropriate skills in basic and objective selective tissue examination necessary for generating a provisional differential diagnosis of spinal dysfunction. Signs, symptoms, pathology, and management of common spinal pathologies are reviewed. Selective tissue tensioning techniques for the peripheral joints are introduced. Cyriax’s principles are presented.

**PTH537**  
**NAIOMT Level II: Intermediate Upper Quadrant**  
A comprehensive biomechanical and anatomical review of the upper thoracic, upper and lower cervical spine, shoulder, elbow, wrist, and hand. Specific biomechanical assessment of each area is taught along with appropriate and effective treatment techniques for common injuries and mechanical dysfunctions.

**PTH538**  
**NAIOMT Level II: Intermediate Lower Quadrant**  
A comprehensive biomechanical and anatomical review of the lower thoracic and lumbar spines, the hip, knee, ankle, and foot. Specific biomechanical assessment of each area is taught along with appropriate and effective treatment techniques for common injuries and mechanical dysfunctions.

**PTH540**  
**Pathophysiology II**  
Sequence studying disease processes affecting major body systems and the resulting anatomical and pathophysiological changes. Clinical presentations and pharmacological treatment of patients with those disease processes considered, as well as diagnostic tests and laboratory values used to identify pathological conditions. Prerequisites: PTH400 and 410.

**PTH545**  
**Advanced Clinical Physiology**  
The review of human physiological function of the major body systems with clinical application to musculoskeletal, cardiovascular and pulmonary conditions. Detailed information on exercise physiology will be discussed along with clinical applications among patients with compromised health.

**PTH546**  
**NAIOMT Level III: Advanced Upper Quadrant**  
Builds on the techniques learned in Level II and helps the student understand the kinetic chain interrelationships of the upper quadrant. Integrates information generated in the assessment to understand how remote dysfunctions can be casual or contributory. Advanced techniques are demonstrated along with new material on temporo-mandibular-joint material and peripheral manipulation skills. Prerequisite: PTH537.

**PTH547**  
**NAIOMT Level III: Advanced Lower Quadrant**  
Builds on the techniques learned in Level II and helps the student understand the kinetic chain interrelationships in the lower quadrant. Presents advanced biomechanical tests and treatment and includes the sacroiliac and pubic joints. Discusses the integration of examination and treatment techniques. Prerequisite: PTH538.

**PTH548**  
**NAIOMT Level IV: High Velocity Manipulation**  
Instructs the student on the indications and contraindications, as well as the safe and effective application of spinal, pelvic, and costal manipulation techniques. Prerequisites: PTH546 and 547.

**PTH549**  
**Principles of Contemporary Leadership**  
Theory and application of complexity sciences to organizational management; exploration of key leadership roles and changing paradigms; presentation of methods to maximize personal and professional life.

**PTH550**  
**NAIOMT Supervised Clinical Practice**  
Using a 3-to-1 model, students will be required to do a minimum of 60 supervised clinical hours applying hands-on techniques with patients under the supervision of a certified NAIOMT clinical instructor, FAAOMPT, or other approved instructors. These hours can be split up into two 30-hour blocks, or other increments as agreed upon by the student and CI. No less than 15 hours can be registered for at any given time.
Selected topics in physical therapy. Permission of department chair required. Repeatable. Specific prerequisites may be required for some subject areas.

**Topics in Comparative Religion**
This course surveys the major religious traditions of the world. Study includes an overview of origins; major philosophical and theological underpinnings; typical aspects of worship and ethics; and major social, cultural, and political influences. Study is done from a consciously Christian framework.

**PTH589 (1–2)**  
*Professional Seminar*

**PTH590 (1–12)**  
*Topics in__________*

**Orthopedics I**
Presentation of fundamental physical therapy knowledge in the assessment and intervention of a patient with both acute and chronic conditions of the extremities. Screening of the cervical and lumbar spine prior to tests is covered, progressing to complete assessment and treatment of extremity joint pathologies. Diagnostic tests and results pertinent to the orthopedic patient are related to a physical therapy differential diagnosis. Corequisite: PTH611.

**Orthopedics II**
A continuation of the presentation of information regarding orthopedic pathology of the spine with emphasis on treatment techniques for the different pathologies from a physician and physical therapist’s perspective. A decision making model focusing on a differential diagnosis is incorporated throughout the course. Corequisite: PTH612.

**Therapeutic Exercise**
Examines the systemic responses to exercise as related to both an acute nature and in response to training. Specific pathological conditions are discussed in relation to exercise testing and prescription, and a clinical decision making process is presented for working with additional pathological conditions. Corequisite: PTH620.

**Orthopedics I Laboratory**
Clinical application and practice in the special techniques to assess and treat acute and chronic orthopedic pathologies of the extremities and spine. Corequisite: PTH601.

**Orthopedics II Laboratory**
Designed for practice of the special techniques required in the assessment of intervention of acute and chronic orthopedic pathologies of the cervical, thoracic, and lumbar spine. Corequisite: PTH602.

**Clinical Pharmacology**
Develops a non-prescriptive knowledge of specific medications including indications, contraindications, precautions, adverse reactions, and dosage, especially as related to physiological effects of physical therapy interventions.

**Clinical Research**
Introduces the student to basic concepts of biostatistics and research design and the formulation of evidence based practice theories.

**Research Statistics**
Fundamental procedures in collecting, summarizing, presenting, analyzing, and interpreting statistical data. Statistical tests applied to medical specialties. Corequisite: PTH632.

**Cardiopulmonary**
Lectures covering selected topics in cardiopulmonary medicine, focusing on clinical presentation, diagnostic tests, and medical and physical therapy interventions. Corequisite: PTH635.

**Orthotics and Prosthetics**

**Cardiopulmonary Laboratory**
Emphasis on physical therapy assessment and intervention with cardiac and pulmonary patients. Practice of relevant techniques, such as stress testing, percussion, pulmonary function tests and breathing techniques, as well as other techniques identified in the *Physical Therapy Guide to Practice*. Corequisite: PTH625.

**Orthotics and Prosthetics Laboratory**
Practice of the physical therapy techniques required in the application of orthotic and prosthetic devices. Special attention given to gait and function. Selected topics such as wheelchair modifications, miscellaneous ortho-rehab apparatus, and other assistive/adaptive devices included. Corequisite: PTH627.
PTH640
Pediatrics
An overview of embryologic development, followed by normal infant/child development to 5 years of age with an emphasis on motor development. Identification of assessment techniques for infants and children with normal and abnormal development. Description of various pediatric pathologies encountered in physical therapy with appropriate corresponding assessment and treatment approaches. Corequisite: PTH650.

PTH645
Physical Therapy Administration and Leadership
A study of the organizational structures, operations, and financing of healthcare delivery institutions and an examination of the organization and interrelationship of their professional and support elements. Application of current health care management strategies and theory are related to the acute-care facility and independent practice.

PTH646
Spirituality in Healthcare
A discussion of spiritual values from a Christian perspective, how faith and spirituality facilitate the healing process, and how these can be incorporated into patient care. Attention will be given to discerning and addressing the spiritual needs of patients/clients, family members, and ancillary medical staff in a professional environment.

PTH647
Differential Diagnosis
Analysis of the decision making process, with special focus on clinical guidelines, *Physical Therapy Guide to Practice*, and differential diagnosis. Differential diagnosis is addressed through comparison of systemic signs and symptoms, as well as appropriate diagnostic tests which may indicate involvement of a problem outside of the scope of PT practice.

PTH650
Pediatrics Laboratory
Practice of physical therapy assessment of the infant/child that address different developmental domains. Practice in the special techniques required in assessment and treatment of pediatric patients diagnosed with selected pathologies. Introduces current treatment approaches, such as Neurodevelopmental Treatment (NDT), with their effects on treatment goals. Corequisite: PTH640.

PTH651
Neurology I
Review of basic neurophysiological mechanisms specific to nervous system dysfunction, related to clinical concepts in treatment of conditions affecting the nervous system, such as spinal cord injury, head injury, stroke, and selected peripheral pathologies. Emphasis on comparing and contrasting facilitation techniques. Corequisite: PTH661.

PTH652
Neurology II
Continuation of PTH651 Neurology I, focusing on assessment and intervention with selected neurologic conditions. Common treatment techniques are compared with rationale for use of each. Prerequisite: PTH651. Corequisite: PTH662.

PTH655
Program Continuation
Students may register for this non-credit continuation course while clearing deferred grade (DG) and/or incomplete (I) courses. Registration for this course indicates active status. Requires program approval.

PTH661
Neurology I Laboratory
Clinical application, rehabilitation practice, and techniques applied to nervous system dysfunction. Intervention techniques for conditions affecting the nervous system, such as spinal cord injury, head injury, stroke, and selected peripheral pathologies. Corequisite: PTH651.

PTH662
Neurology II Laboratory
Clinical application, rehabilitation practice, and techniques applied to basic physiological and neurophysiological mechanisms specific to nervous system dysfunction. Focus on techniques appropriate for use with neurologic patients and evaluation of patient response to treatment. Prerequisite: PTH661. Corequisite: PTH652.

PTH680
Clinical Practicum
Practice of the knowledge and skills developed in the classroom and laboratory in a patient-care setting. This practicum consists of 4 weeks full-time physical therapy experience in clinical facilities affiliated with the university. Repeatable.

PTH690
Independent Study
Individualized study and/or research in a specialized area under the guidance of an instructor. Permission from the department chair required prior to registration. Repeatable to 8 credits.

PTH697
Independent Learning Contract
The student, working with their advisor and following degree/ course guidelines, will develop an independent 40-hour learning contract with a qualified clinical specialist to facilitate intensive focused clinical training in a field of study of their choosing.

PTH711
Clinical Reasoning I
A course intended to enhance the skills associated with clinical reasoning within the Physical Therapy setting. It will address the thought process that enters into every aspect of patient care in the practice of physical therapy, from the history to the physical exam; the differential diagnosis to the development of the prognosis; the plan of intervention to the eventual discharge. Corequisite: PTH721.

PTH712
Clinical Reasoning II
A continuation of PTH711 Clinical Reasoning I. Prerequisite: PTH711. Corequisite: PTH722.

PTH718
Clinical Screening & Differential Diagnosis
Knowledge and clinical skills designed for screening patients for medical conditions. Differential diagnosis is addressed through comparison of systematic signs and symptoms. Appropriate diagnostic tests which may indicate involvement of a problem outside the scope of PT practice are addressed. Enhances professional communication with other healthcare practitioners included in the referral process.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTH721</td>
<td>Clinical Reasoning I Laboratory</td>
<td>(1)</td>
<td>A continuation of PTH711. Labs are designed to reinforce specific skills (evaluative or therapeutic) applicable to each lecture topic. Corequisite: PTH711.</td>
</tr>
<tr>
<td>PTH722</td>
<td>Clinical Reasoning II Laboratory</td>
<td>(1)</td>
<td>A continuation of PTH721 Clinical Reasoning I Laboratory. Prerequisite: PTH721. Corequisite: PTH712.</td>
</tr>
<tr>
<td>PTH726</td>
<td>Geriatrics</td>
<td>(2)</td>
<td>Study of the unique characteristics of the geriatric patient, especially the physiological, psychological and social aspects, related to special needs in the physical therapy assessment, plan of care, and intervention.</td>
</tr>
<tr>
<td>PTH728</td>
<td>Christian Finance Seminar</td>
<td>(1)</td>
<td>This course emphasizes the principles of Christian stewardship in everyday life. It addresses stewardship not only as it relates to finances but also to other human resources such as time, and talent. It will also include the elements of family budgeting and investing.</td>
</tr>
<tr>
<td>PTH730</td>
<td>Medical Diagnostics</td>
<td>(2)</td>
<td>Addresses imaging, body chemistry values and data derived from musculoskeletal, neurologic, vascular, cardiac and pulmonary testing with the purpose of understanding the disease process. Application of knowledge will determine differential diagnoses.</td>
</tr>
<tr>
<td>PTH736</td>
<td>Psychosocial Issues in Healthcare</td>
<td>(3)</td>
<td>An introduction to psychosocial responses to illness and disability, especially the interpersonal relationships between the therapist, the family and the patient. Common psychiatric disorders are discussed along with their clinical diagnosis, treatment regimes, projected outcomes and methods for handling these responses in clinical situations.</td>
</tr>
<tr>
<td>PTH740</td>
<td>Advanced Topics in Clinical Research</td>
<td>(3)</td>
<td>This course continues to cover the topic introduced in PTH630 in a more in depth fashion. The student will learn how to set up a research study as well as review the literature and analyze the validity of the information presented. An introduction to setting up outcome studies will also be covered.</td>
</tr>
<tr>
<td>PTH760</td>
<td>Applications in Clinical Research</td>
<td>(2)</td>
<td>Information presented on how to develop and present a publishable quality case study. It also includes the actual practice of doing an outcomes study in the clinical environment.</td>
</tr>
<tr>
<td>PTH765</td>
<td>Ethical &amp; Legal Issues in Healthcare</td>
<td>(1–2)</td>
<td>Contemporary ethical issues are explored, including the relationships among peers, superiors, subordinates, institutions, clients, and patients. Illustrations include actual cases related to Christian biblical principles.</td>
</tr>
<tr>
<td>PTH768</td>
<td>Professional Compendium</td>
<td>(1)</td>
<td>Summarization of previous or added learning experiences relative to contemporary issues in physical therapy. An overview of the new graduate’s role and responsibility to his/her patients and their families, employer, and community in the expanding physical therapy profession.</td>
</tr>
<tr>
<td>PTH770</td>
<td>Practical Comprehensive Examination</td>
<td>(0)</td>
<td></td>
</tr>
<tr>
<td>PTH788</td>
<td>Research Project Continuation</td>
<td>$ (0)</td>
<td>Students register for this continuation course while completing their capstone project and not enrolled in other program courses. Registration for this course indicates full-time status which includes library privileges and access to an advisor. Requires advisor approval.</td>
</tr>
<tr>
<td>PTH798</td>
<td>Capstone Experience</td>
<td>(1–10)</td>
<td>Serves as an essential outcome component to augment the professional development and new learning that occurs in didactic course work of the postprofessional doctoral degree and demonstrates the ability of the DPT/DScPT to make significant contributions to the profession and/or serve as a change agent in the field of physical therapy.</td>
</tr>
<tr>
<td>PTH799</td>
<td>Research Project (topic)</td>
<td>(1–3)</td>
<td>Provides students with guidelines and supervision for data collection, analysis, capstone project preparation and oral presentation.</td>
</tr>
<tr>
<td>PTH870</td>
<td>Written Comprehensive Examination</td>
<td>(0)</td>
<td></td>
</tr>
<tr>
<td>PTH880</td>
<td>PT Seminar</td>
<td>(1)</td>
<td>Preperation of a personal portfolio, assessment of the clinical experiences and preparation for professional licensure.</td>
</tr>
<tr>
<td>PTH881, 882, 883, 884</td>
<td>Clinical Internship I, II, III, IV</td>
<td>(4, 4, 5, 5)</td>
<td>Advanced full-time clinical experience (8–10 weeks each) in a variety of professional practice settings. One of the internships must be in outpatient orthopedics, inpatient, and a neurology setting. Thirty-six to forty hours per week. May be repeated.</td>
</tr>
</tbody>
</table>