• **PTS505 Physical Therapy Private Practice Management**
  1 credit
  Course focuses on establishing a private physical therapy practice, including initial development through marketing and management. Prerequisite: For Physical Therapy majors, only or with permission of the instructor.

• **PTS506 Issues in Women’s Health: Gynecology**
  1 credit
  Introduction to physical therapy practice for evaluation and treatment of pelvic floor dysfunction. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS507 Issues in Women’s Health: Obstetrics, Osteoporosis and Breast Health**
  1 credit
  Introduction to physical therapy practice for evaluation and treatment of problems related to pregnancy, osteoporosis, and other disorders specific to women. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS508 Rape Aggression Defense for Women (RAD)**
  1 credit
  A comprehensive self-defense course for women including awareness, prevention, risk reduction and avoidance, and the basics of hands-on defense training. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS509 Exercise for Persons with Spinal Cord Injuries**
  1 credit
  Course provides a review of etiology and pathology of spinal cord injury as well as current methods of exercise and electrical stimulation systems and their physiological effects on the individual. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS510 Balance for the Neurologic Patient**
  1 credit
  Introduction to balance evaluation and treatment concepts for patients with neurological deficits. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS511 Positioning as a Pediatric Therapeutic Modality**
  1 credit
  Introduction to adaptive seating and positioning in pediatric physical therapy, neurophysiological, biomechanical, and functional rationale. Prerequisite: For Physical Therapy majors or with permission of the instructor.

• **PTS512 Sports Physical Therapy**
  1 credit
  Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS513 Clinical Instructor Training**
  1 credit
  Introduction to the roles and responsibilities of being a clinical instructor to physical therapy students. Course material is adapted from the Clinical Instructor Workshop of the Florida Consortium of Clinical Educators. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS516 Clinical Research I**
  3 credits
  Principles, concepts, and basic skills required to conduct clinical research in physical therapy. Topics include research design, sampling, bias, reliability and validity, questionnaire design, statistical computing, conceptual review of literature, and the preparation of a research proposal. Prerequisite: For Physical Therapy majors only.

• **PTS517 Abdominal Anatomy**
  1 credit
  Course analyzes abdominal anatomy emphasizing structure and function. Cadaver dissection is included. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS518 Cross-sectional and Radiologic Anatomy**
  1 credit
  Cross-sectional and radiologic anatomy of major joints of the body with emphasis on normal and abnormal images. Cadaver dissection is included. Prerequisite: For Physical Therapy majors only or with permission of the instructor.
• **PTS519 Pelvic Anatomy**  
  1 credit  
  Course analyzes the anatomy of the human pelvic area. Cadaver dissection is included. Prerequisite: For Physical Therapy majors only or with permission of the instructor.

• **PTS523 Myofascial Release**  
  1 credit  
  Introduction to Myofascial Release technique in rehabilitation. Prerequisite: Open to physical therapy majors only, with permission of instructor.

• **PTS524 Interdisciplinary Fundamentals for Assertive Technology**  
  3 credits  
  Interdisciplinary assistive technology course for professionals. Comprehensive assistive technology services for individuals with disabilities is included. Course is taught with Department of Pediatrics. Prerequisite: With consent of instructor only.

• **PTS526 Introduction to Pilates Rehabilitation I**  
  1 credit  
  Course provides historical development, and evidence-based approach to Pilates rehabilitation. Prerequisite: For Physical Therapy majors only; others with permission of instructor.

• **PTS527 Introduction to Pilates Rehabilitation II**  
  1 credit  
  Introduction to the Pilates Environment. Prerequisite: Open to physical therapy majors only; others with permission of instructor.

• **PTS530 Foundations of Physical Therapy**  
  2 credits  
  Foundations, historical development, and contemporary practice of physical therapy in the United States. Traditional and emerging roles and responsibilities of the physical therapist in the spectrum of health care provision. Examination of current professional issues affecting future roles is discussed. Terminology and a treatment cycle model is also introduced. Prerequisite: Open to Physical Therapy majors only.

• **PTS531 Gross Anatomy for Physical Therapy**  
  3 credits  
  Gross anatomy with emphasis on the musculoskeletal systems and a survey of other systems that are relevant to physical therapy practice. Prerequisite: For Physical Therapy majors only.

• **PTS532 Gross Anatomy for Physical Therapy**  
  3 credits  
  Gross Anatomy with emphasis on the musculoskeletal systems and a survey of other systems that are relevant to physical therapy practice. Prerequisite: For Physical Therapy majors only.

• **PTS533 Communications in Physical Therapy Practice**  
  3 credits  
  Course provides an analysis of communication skills in physical therapy clinical practice. Emphasis is placed on instruction of patients and their families, supportive staff, and health care team members. In-depth examination of patient-therapist interactions is included. Prerequisite: For Physical Therapy majors only.

• **PTS540 Neuroscience I**  
  3 credits  
  The human central nervous system with emphasis on structure-function relationships, and clinical applications. The brain, spinal cord, cranial nerves, tracts, and nuclei of major systems. Central nervous systems lesions and their clinical significance are discussed. Lecture and human dissection are included. Prerequisite: For Physical Therapy majors only.

• **PTS541 Neuroscience II**  
  3 credits  
  The central, peripheral, and autonomic nervous systems and their physiological responses to environmental stimuli. Normal systems are contrasted with abnormal systems. The clinical significance of altered neurophysiological states is discussed. Prerequisite: For Physical Therapy majors only.

• **PTS542 Electrotherapy**  
  3 credits  
  Course provides an evaluation of nerve and skeletal muscle by classical electrical means. The therapeutic application of selected modalities is discussed. Prerequisite: For Physical Therapy majors only.
• **PTS543 Medical Pathology Seminar I**  
 1 credit  
Lectures and seminar discussion of pathological conditions with particular emphasis on musculoskeletal disorders. Prerequisite: Open to Physical Therapy majors only.

• **PTS544 Medical Pathology Seminar II**  
1 credit  
Lectures and seminar discussion of pathological conditions with particular emphasis on neuromuscular disorders. Prerequisite: Open to Physical Therapy majors only.

• **PTS545 Medical Pathology Seminar III**  
1 credit  
Lectures and seminar discussion of pathology conditions with particular emphasis on integumentary disorders. Prerequisite: Open to Physical Therapy majors only.

• **PTS546 Medical Pathology Seminar IV**  
1 credit  
Lectures and seminar discussion of pathological conditions with particular emphasis on cardiorespiratory disorders. Prerequisite: Open to Physical Therapy majors only.

• **PTS550 Pharmacology**  
2 credits  
Basic principles of pharmacology and pharmacotherapeutics. Contemporary drug therapies and their effects on patients undergoing rehabilitation are discussed. Prerequisite: For Physical Therapy majors only.

• **PTS570 Clinical Skills**  
3 credits  
Skills essential to the practice of physical therapy, including clinical decision making methodology, theory, and techniques. Students will have initial exposure to clinical education. Prerequisite: Physical Therapy majors only.

• **PTS571 Therapeutic Physiology**  
2 credits  
Physiological effects of exercise and training for the healthy and diseased individual. The use of exercise for joint and muscle mobility, muscle strength, and cardiopulmonary function is included. Prerequisite: For Physical Therapy majors only.

• **PTS572 Clinical Kinesiology and Biomechanics**  
4 credits  
A study of musculoskeletal structure and function, physiological and biomechanical factor, and principles underlying the kinematics and kinetic of normal and abnormal human motion. Prerequisite: Open to Physical Therapy majors only.

• **PTS574 Clinical Evaluation**  
3 credits  
Basic evaluation skills for patients with various diseases and dysfunctions. Skills include clinical decision making, history taking, postural and functional assessment, surface palpation, manual muscle testing, and goniometric measurement. Classroom instruction and laboratory practice is included. Prerequisite: Physical Therapy majors only.

• **PTS575 Clinical Decision Making I**  
3 credits  
Introduction to physical therapy diagnosis, the disablement model, measurement of function screening, and the Physical Therapy Guide to Practice. Prerequisite: For Physical Therapy majors only.

• **PTS595 Selected Topics in Physical Therapy**  
1-3 credits  
Topics in contemporary physical therapy clinical practice with focus on specialty areas such as neonatal pulmonary care, balance/vestibular dysfunction, geriatrics, pediatrics, obstetrics, and gynecology.

• **PTS599 Independent Study in Physical Therapy**  
1-3 credits  
Each course is designed to meet special interest demands of students. Prerequisite: For Physical Therapists; permission of the instructor.

• **PTS606 Neurological Evaluation**  
2 credits  
Comprehensive evaluation of the patient with neurological dysfunction. Emphasis is placed on decision making, differential diagnosis, selection, and interpretation of examination components. Prerequisite: For Physical Therapy majors only.
• **PTS608 Human Gait and Locomotion**  
  1 credits  
  Principles of human gait and locomotion, including normal and pathological gait. Analysis of deviations, causes and specific treatments to address movement dysfunctions. Prerequisite: For Physical Therapy majors only.

• **PTS610 Clinical Internship I**  
  1 credit  
  Supervised clinical education emphasizing clinical skills. Competence is expected in areas such as analysis of normal and abnormal human motion, exercise, and evaluation and treatment for cardiopulmonary dysfunctions. Prerequisite: Physical Therapy majors only.

• **PTS611 Clinical Internship II**  
  1 credit  
  Supervised clinical education emphasizing clinical skills. Competence is expected in areas such as evaluation and treatment of extremity dysfunctions, wound care, and neuromuscular dysfunctions. Prerequisite: For Physical Therapy majors only.

• **PTS614 Neurorehabilitation I**  
  3 credits  
  The theoretical basis and clinical application of the neurophysiological approaches to treatment. Principles of motor control dynamic systems, sensorimotor development, and integration are presented to include discussion and practice of methods of evaluation and intervention. Treatment principles, approaches, and techniques as advocated by the Bobaths, Rood, Brunstrom, Knott, and Voss are emphasized. An integrated and symptomatic approach, which reinforces the problem solving/differential diagnosis process involved in client care is utilized. Prerequisite: Open to Physical Therapy majors only.

• **PTS615 Rehabilitation of the Complex Patient**  
  3 credits  
  Rehabilitation of the complex patient, including spinal cord injury, traumatic brain injury, multi-system, and multi-organ disease. Prerequisite: Open to Physical Therapy Majors only.

• **PTS617 Clinical Research II**  
  3 credits  
  This course is a continuation of Clinical Research I that provides the student with continued guidance in the completion of the faculty led research project begun as part of Clinical Research I. A series of lectures also provide exposure to additional topics relevant to clinical research in Physical Therapy. Potential lecture topics include data analysis, design, error, philosophy of science, and research reporting. Prerequisite: PTS 616; for Physical Therapy majors only.

• **PTS618 Physical Therapy Administration**  
  3 credits  
  Course discusses physical therapy services, departmental policies and procedures, and personnel management. Issues relevant to clinical practice and the physical therapy profession are emphasized. An administrative project. Prerequisite: For Physical Therapy majors only.

• **PTS620 Biomechanical Basis of Human Movement**  
  3 credits  
  A study of the basic biomechanical principles underlying the kinetics and kinematics of normal and abnormal human motion as well as the measurement of human movement. Prerequisite: Open to Physical Therapy majors.

• **PTS621 Measurement of Impairment and Function in Human Movement**  
  3 credits  
  A study of measurement tools utilized in the analysis of normal and abnormal human motion. Prerequisite: Open to Physical Therapy majors.

• **PTS622 Pathobiology of Human Function I**  
  3 credits  
  Pathophysiology of musculo-skeletal processes that impair human function including skeletal muscle; skin, tendons, ligaments, cartilage; bone; and cardiorespiratory. Prerequisite: Permission of the instructor.
- **PTS624 Cardio-Respiratory Physical Therapy**
  3 credits
  The skills necessary for the evaluation and treatment of patients with various cardio-respiratory diseases and dysfunctions. Inpatient and outpatient cardiac and respiratory rehabilitation is included. Research on prevention of cardio-respiratory diseases and dysfunctions as it relates to evaluative, and therapeutic methods is also discussed. Course utilizes classroom instruction, individual investigation, laboratory practice, and clinical experience. Prerequisite: For Physical Therapy majors only.

- **PTS626 Therapeutic Exercise**
  3 credits
  A holistic approach to the evaluation, treatment, and management of patients with various neuromuscular diseases and dysfunctions. Appropriate therapeutic exercises interrelated with modalities and self-help devices as well as individual investigation of respective neuromuscular diseases and dysfunctions. Classroom instruction and laboratory practice are included. Prerequisite: For Physical Therapy majors only.

- **PTS627 Prosthetics, Orthotics and Spinal Cord Injury**
  3 credits
  A holistic approach to the evaluation and management of patients with amputations and spinal cord injuries. Appropriate therapeutic exercises interrelated with self-help appliances as well as individual investigation of respective amputation and spinal cord problems are emphasized. Classroom instruction and laboratory practice are included. Prerequisite: For Physical Therapy majors only.

- **PTS628 Orthopedic Assessment and Treatment**
  3 credits
  The evaluation and treatment of various extremity dysfunctions. Review and investigation of the literature relevant to the hip, knee, ankle, foot, shoulder, elbow, wrist, and hand. Clinical evaluation and treatment procedures is included. Course utilizes classroom instruction, laboratory practice, and clinical experience. Prerequisite: For Physical Therapy majors only.

- **PTS629 Management of the Spine**
  3 credits
  The evaluation and treatment of various spinal dysfunctions. Review and investigation of the literature relevant to the sacro-iliac, lumbar, thoracic, cervical spines, and the head and neck. Clinical evaluation and treatment procedures is included. Course utilizes classroom instruction, laboratory practice, and clinical experience. Prerequisite: For Physical Therapy majors only.

- **PTS630 Pediatric Physical Therapy**
  2 credits
  An overview of factors and issues related to examination and treatment of children by physical therapists. Prerequisite: Open to Physical Therapy majors only.

- **PTS631 Geriatric Physical Therapy**
  2 credits
  An overview of factors and issues related to examination and treatment of older individuals by physical therapists. Prerequisite: Open to Physical Therapy majors only.

- **PTS641 Seminar in Geriatric Rehabilitation**
  3 credits
  Geriatric rehabilitation offers many complex themes of inquiry. This seminar selects eight to ten topics to investigate such as: forms of long term care, communication with the confused and depressed, legal and ethical issues, sexuality, drugs and the elderly, nutrition, fitness and wellness, family issues, incontinence, falls, effects of exercise, motivation, and sociological and psychological aspects of aging. Prerequisite: Permission of the instructor.

- **PTS644 Integrated Sports and Leisure**
  3 credits
  Course promotes the integration of able-bodied students with the physically challenged by working together to learn common recreational activities. Sailing and camping activities are used as an educational tool for able-bodied students to learn the capabilities, physical resources, and assistance required by physically challenged individuals.

- **PTS645 Integumentary Disorders and Treatment**
  2 credits
  Basic and advanced principles regarding the integumentary system and related disorders, as well as principles of wound healing and wound care therapies. Prerequisite: Open to Physical Therapy majors only.
• **PTS648 Advanced Musculoskeletal Rehabilitation**  
  3 credits  
  Advanced examination, evaluation, functional assessment and treatment of patients in selected specialty areas of orthopaedic physical therapy. Prerequisite: Open to Physical Therapy majors only.

• **PTS650 Seminar in Obstetrics and Gynecological Physical Therapy**  
  3 credits  
  This course focuses on the expanding role of physical therapists in obstetrics and gynecology. Related research is critically analyzed. Prerequisite: Permission of the instructor.

• **PTS655 Neuromuscular Basis of Movement**  
  3 credits  
  Concepts of neuromuscular production and regulation of movement with emphasis on neurophysiologic substrates and mechanisms underlying motor behavior. Prerequisite: Open to Physical Therapy majors only, others with permission of instructor.

• **PTS660 Theories of Movement Science**  
  3 credits  
  An in-depth review of classical theories and recent research in the movement sciences, to include the study and analysis of system theory and neurobiological substrates. Prerequisite: Permission of the instructor.

• **PTS661 Motor Learning**  
  3 credits  
  The factors relating to, and affecting, the acquisition and performance of motor skills. Qualification of skill acquisition and performance are explored. Prerequisite: Permission of the instructor.

• **PTS662 Advanced Topics in Neurodevelopment**  
  3 credits  
  Classical research and systems models of neurodevelopment is reviewed, analyzed, and related to current research on various areas of human development throughout the lifespan. Prerequisite: Permission of the instructor.

• **PTS663 Interdisciplinary Programming for the Individual with Developmental Disabilities**  
  1-3 credits  
  Overview of child development, service delivery models, with an emphasis on intra-disciplinary, multi-disciplinary, inter-disciplinary strategies, and community programming. Prerequisite: Open to physical therapists and graduate physical therapy students, or related health professional students only.

• **PTS665 Health Promotion and Disease Prevention**  
  2 credits  
  The role of physical therapists in health promotion and disease preventions. Prerequisite: Open to Physical Therapy majors only.

• **PTS670 Education, Delegation, and Supervision in Physical Therapy**  
  2 credits  
  Principles of education, delegation, and supervision as pertaining to physical therapy patient care management. Prerequisite: Open to Physical Therapy majors only.

• **PTS671 Complementary Therapies in Rehabilitation**  
  2 credits  
  Historical development and evidence-based approach to complementary therapies in rehabilitation. Prerequisite: Open to Physical Therapy majors only.

• **PTS674 Educational Administration in Physical Therapy**  
  3 credits  
  Review of history and current issues in educational administration of physical therapy programs at the entry-level and post-graduate level. Prerequisite: Permission of the instructor.

• **PTS675 Clinical Decision Making II**  
  3 credits  
  Integration of basic science and clinical science in developing a patient plan of care, with consideration of ethical, psychological, and economic factors. Prerequisite: Open to Physical Therapy majors only.
• **PTS677 Instructional Methods in Physical Therapy Education**
  3 credits
  Overview of research in the professional education field, with specific applications to physical therapy academic and clinical education. Emphasis is placed on curriculum development, competency-based instructional design, testing, and instructional evaluation methods. Prerequisite: Admission to the Ph.D. program.

• **PTS678 Teaching Practicum**
  1-3 credits
  Supervised instructional design, teaching and evaluation of entry level physical therapy students. Students participate as course instructors in entry-level master's degree physical therapy curriculum. Prerequisite: Permission of the instructor.

• **PTS685 Medical Diagnostic Tests**
  2 credits
  Basic principles of medical diagnostic tests commonly encountered in physical therapy. Prerequisite: Open to Physical Therapy majors only.

• **PTS690 Physical Therapy Diagnosis**
  3 credits
  Study of the integration of didactic knowledge, clinical skills, and intuitive process into the formation of a clinical diagnosis which will direct treatment in physical therapy. Diagnosis as a process is compared to diagnosis in nursing, psychiatry, and medicine, and distinguished from assessment, examination, and screening. Prerequisite: Open only to practicing physical therapist.

• **PTS695 Clinical Research Methods I**
  3 credits
  An overview of measurement and sampling issues pertaining to clinical research in Physical Therapy. Prerequisite: Permission of instructor.

• **PTS696 Applied Statistics in Physical Therapy**
  3 credits
  Basic Statistics taught from an applied perspective which includes statistical computing using SAS in a mainframe environment and interpretation of SAS output. Prerequisite: Permission of the instructor.

• **PTS697 Clinical Research Methods II**
  3 credits
  A course focusing on issues in research design and analysis pertaining to clinical research in Physical Therapy. Prerequisite: PTS 695, 696, or permission of the instructor.

• **PTS698 Research Practicum**
  3 credits
  Practicum designed to familiarize the student with an area of research, to implement a pilot study in an area of interest, and to develop working relationship with a sponsoring faculty member. Prerequisite: Permission of the instructor.

• **PTS699 Independent Study in Physical Therapy**
  1-3 credits
  Each course is designed to meet the needs of graduate students for in-depth study in a particular area of special interest. Prerequisite: Graduate student status; permission of the instructor.

• **PTS701 Role Seminar I**
  1 credit - Davis
  Introduction to faculty role in an institution of higher education, including academic career expectations, resource utilization, faculty development, and evaluation systems. Prerequisite: Open to Physical Therapy Ph.D. students only.

• **PTS702 Role Seminar II**
  1 credit
  Course covers leadership training, networking, time management, and coping strategies. Student advising, counseling, and referral strategies are included. Prerequisite: Open to Physical Therapy Ph.D. students only.

• **PTS703 Role Seminar III**
  1 credit
  Initiation of research career and dynamics of research role development within an institution. Grant writing, funding sources, and proposal considerations are also covered. Prerequisite: Open to Physical Therapy Ph.D. students only.
- **PTS710 Master’s Thesis**
  1-6 credits  
  Required of students working for the Master's degree. While working on the thesis, students enroll for credit. Credit is awarded when thesis is accepted. Prerequisite: Core courses and electives.

- **PTS711 Evidence-based Project**
  1 credit  
  Capstone project for students enrolled in the post-professional Doctor of Physical Therapy Program. Prerequisite: Licensed physical therapists enrolled in the post-professional DPT Program.

- **PTS712 Clinical Internship III**
  3 credits  
  Supervised clinical education emphasizing clinical skills. Competence is expected in areas such as neurofacilitation techniques, and evaluation and treatment of amputees, central nervous system dysfunctions, and spinal cord dysfunction. Prerequisite: For Physical Therapy majors only.

- **PTS713 Clinical Internship IV**
  3 credits  
  Supervised clinical education emphasizing skills previously taught in course sequences. Competence is expected in areas such as conservative management of spinal dysfunctions, growth and development neurofacilitation techniques, central nervous system dysfunctions, clinical administrative procedures, and clinical research techniques. Prerequisite: For Physical Therapy majors only.

- **PTS720 Research in Residence**
  0 credits  
  Used to establish research in residence for the thesis for the Master’s Degree after the student has enrolled for the permissible cumulative total in PTS 710. Credit not granted. May be regarded as full time residency. Prerequisite: Core courses, electives, PTS 710.

- **PTS725 Continuous Registration—Master’s Study**
  0 credits  
  To establish residence for non-thesis master’s students who are preparing for examinations or completing other projects. Credit not granted. Regarded as full time residence.

- **PTS730 Doctoral Dissertation**
  1-12 credits  
  Required of all candidates. The student will enroll for credits as determined by his/her advisor, but not for less than a total of 12. No more than six hours may be taken in a regular semester, nor more than three in a summer session. When a student has passed his/her qualifying exams and is engaged in an Assistantship, he/she may still take the maximum allowable credit stated above. Prerequisite: Permission of instructor.

- **PTS743 Measuring Health Outcomes**
  3 credits  
  An in depth analysis of the use and construction of instruments designed to measure health outcomes. Topics covered include creating and selecting items, scaling responses, scale construction, response bias, reliability, validity, measuring change, and methods of administration. Prerequisite: Permission of instructor.

- **PTS750 Research in Residence**
  0 credits  
  To establish residence for the PhD, or DPT, after the student has been enrolled for the permissible cumulative total in appropriate doctoral research or clinical practice. Credit not granted, may be regarded as full-time residence as determined by the Dean of the Graduate School. Prerequisite: Permission of the Director.